

## CLAIMS

1. A method (1500, 1600, 1700) for wireless communication at a user equipment, UE (115), comprising:
  - receiving (1505, 1605, 1705), from a base station (105), an indication (505) of a resource configuration for a random access procedure, the resource configuration identifying a plurality of sets of transmission resources corresponding to a plurality of radio resource control states;
  - identifying (510, 1510, 1610, 1710) a radio resource control state of the UE (115);
  - determining (515, 520, 1520, 1620, 1720) a set of transmission resources based at least in part on the indication (505) of the resource configuration, a transport format, and the identified radio resource control state; and
  - transmitting (1525, 1625, 1725) a first message (525) of the random access procedure to the base station using the determined transmission resources and the transport format.
2. The method of claim 1, further comprising:
  - identifying at least one transmission parameter to be used by the UE to transmit the first message, wherein the set of transmission resources is determined based at least in part on the indication of the resource configuration, the transport format, the identified radio resource control state, and the at least one transmission parameter.
3. The method of claim 1, further comprising:
  - determining a UE identifier of the UE based at least in part on the identified radio resource control state of the UE, wherein the set of transmission resources is determined based at least in part on the indication of the resource configuration, the transport format, the identified radio resource control state, and the identifier of the UE.
4. The method of claim 1, further comprising:
  - determining a UE identifier of the UE based at least in part on the identified radio resource control state of the UE; and
  - monitoring, based at least in part on the determined UE identifier, for a second message of the random access procedure transmitted by the base station in response to the transmitted first message.

5. The method of claim 4, further comprising:

determining a search space for a control region of the second message based at least in part on the identified radio resource control state of the UE, wherein the monitoring is further based on the determined search space,

or

determining a time duration for at least a portion of the second message based at least in part on the identified radio resource control state of the UE, wherein the monitoring is further based on the determined time duration.

6. The method of claim 1, wherein the plurality of sets of transmission resources comprise at least a first set of transmission resources and a second set of transmissions resources, the first set of transmission resources comprise a first uplink data portion corresponding to a first subset of a preamble portion, and the second set of transmission resources comprise a second uplink data portion corresponding to a second subset of the preamble portion.

7. The method of claim 6, wherein:

the first uplink data portion of the first set of transmission resources and the second uplink data portion of the second set of transmission resources share a common set of frequency resources, or

the first uplink data portion of the first set of transmission resources and the second uplink data portion of the second set of transmission resources share a common set of time resources, or

the first uplink data portion of the first set of transmission resources and the second uplink data portion of the second set of transmission resources share a common set of space resources.

8. The method of claim 6, wherein:

the preamble portion comprises first time resources different from a common set of time resources shared by the first uplink data portion and the second data uplink portion; or first frequency resources different from a common set of frequency resources shared by the first uplink data portion and the second data uplink portion; or first space

resources different from a common set of space resources shared by the first uplink data portion and the second data uplink portion; or a combination thereof, or

the preamble portion shares a common set of time resources, or a common set of frequency resources, or a common set of space resources, or a combination thereof, with the first uplink data portion and the second uplink data portion.

9. The method of claim 1, wherein:

identifying the radio resource control state of the UE comprises identifying that the UE is operating in one of a radio resource control inactive state, or a radio resource control connected state, or a radio resource control idle state, or

receiving the indication of the resource configuration for the random access procedure comprises receiving system information, or radio resource control signaling, or a paging signal, or a combination thereof, comprising the indication of the resource configuration, or

the plurality of sets of transmission resources comprise time resources, or frequency resources, or spatial resources, or a combination thereof, or

the random access procedure is a two-step random access procedure that comprises the first message and a second message, the method further comprising receiving, in response to the transmitted first message, the second message of the two-step random access procedure.

10. The method of claim 1, further comprising:

identifying that the UE lacks a valid timing advance value for the random access procedure, wherein the first message is transmitted regardless of the UE lacking the valid timing advance value.

11. A method (1800) comprising for wireless communication at a base station, comprising:

transmitting (1805), to a user equipment, UE, an indication (505) of a resource configuration for a random access procedure, the resource configuration identifying a plurality of sets of transmission resources corresponding to a plurality of radio resource control states;

receiving (1810), from the UE, a first message (525) of the random access procedure;

identifying (530, 1815) a radio resource control state of the UE (115) based at least in part on the received first message (525) of the random access procedure and the transmitted indication of the resource configuration; and

transmitting (1820), to the UE (115) based at least in part on the identified radio resource control state of the UE (115), a second message (535) of the random access procedure in response to the received first message (525).

12. The method of claim 11, further comprising:

identifying at least one transmission parameter used by the UE to transmit the first message, wherein the radio resource control state is identified based at least in part on the identified at least one transmission parameter, or

determining a UE identifier based at least in part on the first message; and identifying a first set of transmission resources of the plurality of sets of transmission resources for the second message based at least in part on the UE identifier and the identified radio resource control state.

13. The method of claim 11, wherein:

identifying the radio resource control state comprises identifying that the UE is operating in one of a radio resource control inactive state, or a radio resource control connected state, or an radio resource control idle state., or

transmitting the indication of the resource configuration for the random access procedure comprises: transmitting system information, or radio resource control signaling, or a paging signal, or a combination thereof, comprising the indication of the resource configuration, or

the plurality of sets of transmission resources comprise time resources, or frequency resources, or spatial resources, or a combination thereof, or

the random access procedure is a two-step random access procedure that comprises the first message and the second message.

14. An apparatus (705) for wireless communication at a user equipment, UE (115), comprising:

means for receiving (710, 720), from a base station, an indication of a resource configuration for a random access procedure, the resource configuration identifying a plurality of sets of transmission resources corresponding to a plurality of radio resource control states;

means for identifying (725) a radio resource control state of the UE (115);

means for determining (730) a set of transmission resources based at least in part on the indication (505) of the resource configuration, a transport format, and the identified radio resource control state; and

means for transmitting (735) a first message of the random access procedure to the base station using the determined transmission resources and the transport format.

15. The apparatus of claim 14, further comprising means for carrying out the method of any one of claims 2 to 10.

16. An apparatus (1105) for wireless communication at a base station (105), comprising:

means for transmitting (1120, 1140), to a user equipment, UE (115), an indication (505) of a resource configuration for a random access procedure, the resource configuration identifying a plurality of sets of transmission resources corresponding to a plurality of radio resource control states;

means for receiving (1110, 1125), from the UE (115), a first message (525) of the random access procedure;

means for identifying (1130) a radio resource control state of the UE (115) based at least in part on the received first message (525) of the random access procedure and the transmitted indication of the resource configuration; and

means for transmitting (1135), to the UE (115) based at least in part on the identified radio resource control state of the UE (115), a second message (535) of the random access procedure in response to the received first message (525).

17. The apparatus of claim 16, further comprising means for carrying out the method of claim 12 or 13.

18. A computer-readable medium comprising instructions for wireless communication which, when executed by a computer, cause the computer to carry out the method of any one of claims 1 to 13.