WHAT IS CLAIMED IS:

1. A method for wireless communication, comprising:

receiving, at a user-equipment (UE), at least one pilot signal via a secondary cell;

receiving, via a primary cell, a first message triggering reporting of at least one preferred beam for communication via the secondary cell;

determining the preferred beam based on the at least one pilot signal;

transmitting, via the primary cell, a report indicating the at least one preferred beam; and

communicating data via the secondary cell and via the preferred beam.

2. The method of claim 1, wherein the at least one pilot signal is associated with a plurality of beams, and wherein the preferred beam corresponds to one of the plurality of beams received with highest quality at the UE.

3. The method of claim 1, further comprising:

detecting whether one or more channel measurements are to be performed for the secondary cell; and

transmitting, via the primary cell, an indication that the one or more channel measurements are to be performed based on the detection, wherein the first message triggering the reporting of the preferred beam is received after the transmission of the indication to the primary cell.

4. The method of claim 3, further comprising monitoring for the first message during a preset time window starting from transmission of the indication that the one or more channel measurements are to be performed.

5. The method of claim 3, wherein the detection of whether the one or more channel measurements are to be performed comprises detecting beam failure with respect to the secondary cell.

6. The method of claim 1, wherein a scrambling sequence used to encode the first message indicates to the UE to report the at least one preferred beam.

~~7. The method of claim 1, wherein a search space in which the first message is decoded indicates to the UE to report the at least one preferred beam.~~

~~8. The method of claim 1, wherein the first message comprises a physical downlink control channel (PDCCH).~~

~~9. The method of claim 1, wherein the first message comprises downlink control information (DCI) having one or more bits indicating to the UE to report the at least one preferred beam.~~

~~10. The method of claim 1, further comprising:~~

~~receiving a second message from the primary cell confirming activation of a transmission configuration state, wherein the data is communicated via the preferred beam in accordance with the transmission configuration state.~~

~~11. The method of claim 10, wherein the second message received via the primary cell comprises a PDCCH scrambled with a cell-radio network temporary identifier (C-RNTI) associated with the secondary cell.~~

~~12. The method of claim 10, wherein the second message is received via a control resource set of the primary cell.~~

~~13. The method of claim 10, further comprising monitoring for the second message during a preset time window starting from reception of the first message.~~

~~14. The method of claim 10, wherein the second message comprises a medium access control (MAC) control element (CE) indicating the confirmation of the transmission configuration state.~~

~~15. The method of claim 14, wherein the data is communicated via the secondary cell in accordance with the transmission configuration state after the MAC-CE is received.~~

16. The method of claim 15, further comprising activating the transmission configuration state for the data communication after a preset time window or a preset number of slots starting from reception of the MAC-CE.

17. A method for wireless communication, comprising:

transmitting, via a primary cell, a first message triggering reporting by a user-equipment (UE) of at least one preferred beam for communication via a secondary cell;

receiving, from the UE via the primary cell, a report indicating the at least one preferred beam; and

configuring a transmission configuration state in accordance with the preferred beam for communication via the secondary cell with the UE.

18. The method of claim 17, further comprising:

receiving, from the UE via the primary cell, an indication that one or more channel measurements are to be performed, wherein the first message triggering the reporting of the preferred beam is transmitted in response to the reception of the indication.

19. The method of claim 17, wherein configuring the transmission configuration state comprises transmitting a second message via the primary cell confirming activation of the transmission configuration state, and wherein the second message is transmitted during a preset time window starting from transmission of the first message.

20. The method of claim 17, wherein the first message is transmitted during a preset time window starting from reception of the indication that the one or more channel measurements are to be performed.

21. The method of claim 17, wherein a scrambling sequence used to encode the first message indicates to the UE to report the at least one preferred beam.

22. The method of claim 17, wherein a search space in which the first message is encoded indicates to the UE to report the at least one preferred beam.

~~23. The method of claim 17, wherein the first message comprises a physical downlink control channel (PDCCH).~~

~~24. The method of claim 17, wherein the first message comprises downlink control information (DCI) having one or more bits indicating to the UE to report the at least one preferred beam.~~

~~25. The method of claim 17, wherein configuring the transmission configuration state comprises transmitting a second message via the primary cell confirming activation of the transmission configuration state.~~

~~26. The method of claim 25, wherein the second message transmitted via the primary cell comprises a PDCCH scrambled with a cell-radio network temporary identifier (C-RNTI) associated with the secondary cell.~~

~~27. The method of claim 25, wherein the second message is transmitted via a control resource set of the primary cell.~~

~~28. The method of claim 25, wherein the second message comprises a medium access control (MAC)-control element (CE) indicating the confirmation of the transmission configuration state.~~

~~29. An apparatus for wireless communication, comprising:~~

~~a transceiver configured to:~~

~~receive, at a user-equipment (UE), at least one pilot signal via a secondary cell; and~~

~~receive, via a primary cell, a first message triggering reporting of at least one preferred beam for communication via the secondary cell; and~~

~~a processor coupled to the transceiver and configured to determine the preferred beam based on the at least one pilot signal, wherein the transceiver is further configured to:~~

~~transmit, via the primary cell, a report indicating the at least one preferred beam; and~~

~~communicate data via the secondary cell and via the preferred beam.~~

~~30. An apparatus for wireless communication, comprising:~~

~~a transceiver configured to:~~

~~transmit, via a primary cell, a first message triggering reporting by a user-equipment (UE) of at least one preferred beam for communication via a secondary cell; and~~

~~receive, from the UE via the primary cell, a report indicating the at least one preferred beam; and~~

~~a processor coupled to the transceiver and configured to configure a transmission configuration state in accordance with the preferred beam for communication via the secondary cell with the UE.~~

1. An invention not claimed in any divisional application.