

CLAIMS

1. A method for determining a first triggering state, comprising:

receiving, by a terminal device, radio resource control (RRC) signalling for configuring a CSI-SemiPersistentOnPUSCH-TriggerStateList~~first configuration information~~ from a network device, wherein the RRC signalling~~first configuration information~~ comprises configuration information of at least one triggering state;

receiving, by the terminal device, downlink control information (DCI)~~first control information~~ from the network device, wherein the DCI~~first control information~~ comprises a channel state information (CSI) request ~~first information~~ field; and

determining, by the terminal device, based on a one of codepoints of the CSI request field~~first information field~~, the first triggering state at a target position in the RRC signaling~~first configuration information~~

wherein a position of each of the at least one triggering state in the RRC signalling corresponds to a respective one of the codepoints of the CSI request field, a starting one of the codepoints of the CSI request field is 0, and the codepoints of the CSI request field correspond in an ascending order to the at least one triggering state from a first position to a last position for the at least one triggering state in the RRC signalling.

~~2. The method according to claim 1, wherein the configuration information of each of the at least one triggering state in the first configuration information comprises a second information field, and the second information field indicates a triggering state ID of the triggering state.~~

~~3. The method according to claim 2, wherein:~~

~~when the first configuration information is configuration information for aperiodic reporting, configuration information of each aperiodic triggering state comprises the second information field, wherein the second information field indicates a triggering state ID of the aperiodic triggering state; or~~

~~when the first configuration information is configuration information for semi-persistent reporting, configuration information of each semi-persistent triggering state comprises the second information field, wherein the second information field indicates a triggering state ID of the semi-consistent triggering state.~~

4. ~~The method according to claim 1, wherein a position of each of the at least one triggering state in the first configuration information corresponds to a triggering state ID of the triggering state, and~~

~~when the first configuration information is configuration information for aperiodic reporting, a position of each aperiodic triggering state in the first configuration information corresponds to a triggering state ID of the aperiodic triggering state; or when the first configuration information is configuration information for semi-persistent reporting, a position of each semi-persistent triggering state in the first configuration information corresponds to a triggering state ID of the semi-persistent triggering state.~~

5. ~~The method according to claim 1, wherein a position of each of the at least one triggering state in the first configuration information corresponds to a triggering state ID of the triggering state, and—~~

~~wherein the position of each triggering state in the first configuration information corresponds to the triggering state ID of the triggering state, comprising:~~

~~triggering state IDs of triggering states in the first configuration information are sorted in an ascending order from a first position to a last position for the triggering states;~~
~~or~~

~~the triggering state IDs of the triggering states in the first configuration information are sorted in a descending order from the first position to the last position for the triggering states.~~

~~6. The method according to claim 1, wherein a position of each of the at least one triggering state in the first configuration information corresponds to a codepoint of the first information field.~~

~~7. The method according to claim 6, wherein:~~

~~when the first configuration information is configuration information for aperiodic reporting, a position of each aperiodic triggering state in the first configuration information corresponds to a codepoint of the first information field; or~~

~~when the first configuration information is configuration information for semi-persistent reporting, a position of each semi-persistent triggering state in the first configuration information corresponds to a codepoint of the first information field.~~

~~8. The method according to claim 6 or 7, wherein the position of each of the at least one triggering state in the first configuration corresponds to the codepoint of the first information field, in an event that:~~

~~codepoints of the first information field correspond in an ascending order to triggering states from a first position to a last position for the triggering states in the first configuration information.~~

~~9. The method according to any of claims 1 to 8, wherein the first information field is a channel state information, CSI, request field.~~

~~10. The method according to claim 8 or 9, wherein when the first configuration information is configuration information for aperiodic reporting, a starting codepoint of the first information field corresponding to a triggering state is 1; or~~

~~when the first configuration information is configuration information for~~

~~semi-persistent reporting, the starting codepoint of the first information field corresponding to a triggering state is 0.~~

42. A terminal device, comprising:

a first receiving unit, configured to receive radio resource control (RRC) signalling for configuring a CSI-SemiPersistentOnPUSCH-TriggerStateList~~first configuration information~~ from a network device, wherein the RRC signalling~~first configuration information~~ comprises configuration information of at least one triggering state;

a second receiving unit, configured to receive downlink control information (DCI)~~first control information~~ from the network device, wherein the DCI~~first control information~~ comprises a channel state information (CSI) request field~~first information field~~; and

a determination unit, configured to determine, based on a one of codepoints of the CSI request field~~first information field~~, ~~the~~ a first triggering state at a target position in the RRC signaling,

wherein a position of each of the at least one triggering state in the RRC signalling corresponds to a respective one of the codepoints of the CSI request field, a starting one of the codepoints of the CSI request field is 0, and the codepoints of the CSI request field correspond in an ascending order to the at least one triggering state from a first position to a last position for the at least one triggering state in the RRC signalling~~first configuration information~~.

3. A method for determining a first triggering state, characterized by comprising:

generating and sending, by a network device, radio resource control (RRC) signalling for configuring a CSI-SemiPersistentOnPUSCH-TriggerStateList to a terminal, wherein the RRC signalling comprises configuration information of at least one triggering state; and

generating and sending, by the network device, downlink control information (DCI) to the terminal, wherein the DCI comprises a channel state information (CSI) request field,

wherein one of codepoints of the CSI request field is used for the terminal device to determine the first triggering state at a target position in the RRC signalling, and

wherein a position of each of the at least one triggering state in the RRC signalling corresponds to a respective one of the codepoints of the CSI request field, a starting one of the codepoints of the CSI request field is 0, and the codepoints of the CSI request field correspond in an ascending order to the at least one triggering state from a first position to a last position for the at least one triggering state in the RRC signalling.

4. A network device, characterized by comprising:

a first sending unit, configured to generate and send radio resource control (RRC) signalling for configuring a CSI-SemiPersistentOnPUSCH-TriggerStateList to a terminal, wherein the RRC signalling comprises configuration information of at least one triggering state; and

a second sending unit, configured to generate and send downlink control information (DCI) to the terminal, wherein the DCI comprises a channel state information (CSI) request field,

wherein one of codepoints of the CSI request field is used for the terminal device to determine a first triggering state at a target position in the RRC signalling, and

wherein a position of each of the at least one triggering state in the RRC signalling corresponds to a respective one of the codepoints of the CSI request field, a starting one of the codepoints of the CSI request field is 0, and the codepoints of the CSI request field correspond in an ascending order to the at least one triggering state from a first position to a last position for the at least one triggering state in the RRC signalling.

~~12. The terminal device according to claim 11, wherein the configuration information of each~~

~~of the at least one triggering state in the first configuration information comprises a second information field, and the second information field indicates a triggering state ID of the triggering state.~~

~~13. The terminal device according to claim 12, wherein:~~

~~when the first configuration information is configuration information for aperiodic reporting, configuration information of each aperiodic triggering state comprises the second information field, wherein the second information field indicates a triggering state ID of the aperiodic triggering state; or~~

~~when the first configuration information is configuration information for semi-persistent reporting, configuration information of each semi-persistent triggering state comprises the second information field, wherein the second information field indicates a triggering state ID of the semi-consistent triggering state.~~

~~14. The terminal device according to claim 11, wherein a position of each of the at least one triggering state in the first configuration information corresponds to a triggering state ID of the triggering state, and~~

~~when the first configuration information is configuration information for aperiodic reporting, a position of each aperiodic triggering state in the first configuration information corresponds to a triggering state ID of the aperiodic triggering state; or when the first configuration information is configuration information for semi-persistent reporting, a position of each semi-persistent triggering state in the first configuration information corresponds to a triggering state ID of the semi-persistent triggering state.~~

~~15. The terminal device according to claim 11, wherein a position of each of the at least one triggering state in the first configuration information corresponds to a triggering state ID of the triggering state, and~~

~~wherein the position of each triggering state in the first configuration information corresponds to the triggering state ID of the triggering state comprising:~~

~~triggering state IDs of triggering states in the first configuration information are sorted in an ascending order from a first position to a last position for the triggering states;~~
~~or~~

~~the triggering state IDs of the triggering states in the first configuration information are sorted in a descending order from the first position to the last position for the triggering states.~~

~~16. The terminal device according to claim 11, wherein a position of each of the at least one triggering state in the first configuration information corresponds to a codepoint of the first information field.~~

~~17. The terminal device according to claim 16, wherein:~~

~~when the first configuration information is configuration information for aperiodic reporting, a position of each aperiodic triggering state in the first configuration information corresponds to a codepoint of the first information field; or~~

~~when the first configuration information is configuration information for semi-persistent reporting, a position of each semi-persistent triggering state in the first configuration information corresponds to a codepoint of the first information field.~~

~~18. The terminal device according to claim 16 or 17, wherein the position of each of the at least one triggering state in the first configuration corresponds to the codepoint of the first information field in an event that:~~

~~codepoints of the first information field correspond in an ascending order to triggering states from a first position to a last position for the triggering states in the first configuration information.~~

~~19. The terminal device according to any of claims 11 to 18, wherein the first information field is a channel state information, CSI, request field.~~

~~20. The terminal device according to claim 18 or 19, wherein when the first configuration information is configuration information for aperiodic reporting, a starting codepoint of the first information field corresponding to a triggering state is 1; or~~

~~when the first configuration information is configuration information for semi-persistent reporting, the starting codepoint of the first information field corresponding to a triggering state is 0.~~