

CLAIMS

1. A communication method, comprising:

5 determining, by a network device, one or more first slots to be configured for a terminal to carry a first Physical Uplink Control Channel, PUCCH; and,

sending, by the network device, a first piece of information to the terminal, to configure the terminal to carry the first PUCCH in the one or more first slots;

10 wherein the one or more first slots comprise a first slot configured to carry a first PUCCH and a second PUCCH, wherein the first PUCCH is a PUCCH with a long duration, and the second PUCCH is a PUCCH with a short duration, and

wherein uplink symbols of the first slot configured to carry the first PUCCH are different from uplink symbols of the first slot configured to carry the second PUCCH.

15 2. The method of claim 1, wherein the determining, by the network device, the one or more first slots to be configured for a terminal to carry a first PUCCH comprises:

estimating, by the network device, a number of symbols to be configured for the terminal to carry the first PUCCH; and,

determining, by the network device, the one or more first slots, according to the estimated number of symbols and the structure of slots capable of being used by the terminal,

20 wherein the structure of the slots shows the number of uplink symbols and/or downlink symbols.

3. The method of any one of claims 1 to 2, wherein the first piece of information carries an index of each of the one or more first slots, or,

25 the first piece of information carries an indication of a starting first slot of the one or more first slots, and a number of the one or more first slots.

4. The method of any one of claims 1 to 3, the method further comprising:

30 sending, by the network device, a second piece of information indicating the structure of the one or more first slots via a common control channel.

5. The method of any one of claims 1 to 4, wherein the first piece of information further indicates symbols, configured for the terminal to carry the first PUCCH, of the first slot.

5 6. The method of any one of claims 1 to 5, wherein the first PUCCH is configured to transmit uplink control information, UCI, and the second PUCCH is configured to transmit UCI which is different from the UCI transmitted on the first PUCCH.

7. A communication method, comprising:

10 receiving, by a terminal, a first piece of information from a network device, the first piece of information is used to configure the terminal to carry a first Physical Uplink Control Channel, PUCCH in one or more first slots; and

 carrying, by the terminal, the first PUCCH in the one or more first slots, according to the first piece of information;

15 wherein the one or more first slots comprise a first slot configured to carry a first PUCCH and a second PUCCH, wherein the first PUCCH is a PUCCH with a long duration, and the second PUCCH is a PUCCH with a short duration, and

 wherein uplink symbols of the first slot configured to carry the first PUCCH are different from uplink symbols of the first slot configured to carry the second PUCCH.

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8. The method of claim 7, wherein the first piece of information carries an index of each of the one or more first slots, or,

 the first piece of information carries an indication of a starting first slot of the one or more first slots, and a number of the one or more first slots.

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9. The method of claim 7, the method further comprising:

 determining, by the terminal, the uplink symbols of the one or more first slots based on the structure of the one or more first slots, wherein the structure of the one or more first slots shows a number of uplink symbols and/or downlink symbols.

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10. The method of claim 9, the method further comprising:

receiving, by the terminal, a second piece of information indicating the structure of the one or more first slots from the network device, wherein the second piece of information is carried in a common control channel.

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11. The method of any one of claims 7 to 10, wherein the first PUCCH is configured to transmit uplink control information, UCI, and the second PUCCH is configured to transmit UCI which is different from the UCI transmitted on the first PUCCH.

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12. A network device, comprising:

a processing unit, configured to determine one or more first slots to be configured for a terminal to carry a first Physical Uplink Control Channel, PUCCH; and,

a communication unit, configured to send a first piece of information to the terminal, to configure the terminal to carry the first PUCCH in the one or more first slots;

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wherein the one or more first slots comprise a first slot configured to carry a first PUCCH and a second PUCCH, wherein the first PUCCH is a PUCCH with a long duration, and the second PUCCH is a PUCCH with a short duration, and

wherein uplink symbols of the first slot configured to carry the first PUCCH are different from uplink symbols of the first slot configured to carry the second PUCCH.

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13. The network device of claim 12, wherein the processing unit is further configured to:

estimate a number of symbols to be configured for the terminal to carry the first PUCCH; and,

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determine the one or more first slots, according to the estimated number of symbols and the structure of slots capable of being used by the terminal,

wherein the structure of the slots shows the number of uplink symbols and/or downlink symbols.

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14. The network device of claim 12 or 13, wherein the first piece of information further indicates symbols, configured for the terminal to carry the first PUCCH, of the one or more first

slots.

15. The network device of any one of claims 12 to 14, wherein the first PUCCH is configured to transmit uplink control information, UCI, and the second PUCCH is configured to transmit UCI which is different from the UCI transmitted on the first PUCCH.

16. A terminal, comprising:

a communication unit, configured to receive a first piece of information from a network device, the first piece of information is used to configure the terminal to carry a first Physical Uplink Control Channel, PUCCH in one or more first slots; and

a processing unit configured to carry the first PUCCH in the one or more first slots, according to the first piece of information;

wherein the one or more first slots comprise a first slot configured to carry a first PUCCH and a second PUCCH, wherein the first PUCCH is a PUCCH with a long duration, and the second PUCCH is a PUCCH with a short duration, and

wherein uplink symbols of the first slot configured to carry the first PUCCH are different from uplink symbols of the first slot configured to carry the second PUCCH.

17. The terminal of claim 16, wherein the first piece of information carries an index of each of the one or more first slots, or,

the first piece of information carries an indication of a starting first slot of the one or more first slots, and a number of the one or more first slots.

18. The terminal of claim 16, wherein the processing unit is further configured to:

determine the uplink symbols of the one or more first slots based on the structure of the one or more first slots, wherein the structure of the one or more first slots shows a number of uplink symbols and/or downlink symbols.

19. The terminal of claim 18, wherein the communication unit is further configured to:

receive a second piece of information indicating the structure of the one or more first slots

from the network device, wherein the second piece of information is carried in a common control channel.

- 5 20. The terminal of any one of claims 16 to 19, wherein the first PUCCH is configured to transmit uplink control information, UCI, and the second PUCCH is configured to transmit UCI which is different from the UCI transmitted on the first PUCCH.