

METHOD FOR DETERMINING UPLINK CONTROL INFORMATION AND COMMUNICATIONS DEVICE

BACKGROUND

5 **Technical Field**

This application relates to the field of mobile communications technologies, and in particular, to a method for determining uplink control information and a communications device.

Related Art

10 In a 5G new radio (NR) system, ACK/NACK multiplex transmission is supported. That is, ACK/NACK corresponding to a plurality of physical uplink control channels (PDSCHs) is transmitted by a physical uplink control channel (PUCCH). When it is configured that the quantity of ACK/NACK bits is determined semi-statically, the terminal determines the quantity of ACK/NACK bits according to a configured relevant parameter.

15 An ultra-reliable low-latency communication (URLLC) service has a high requirement on delay. If the URLLC service and an enhanced mobile bandwidth (eMBB) service share a same downlink control information (DCI) format, a value range of each information domain in DCI needs to satisfy requirements of the URLLC service and the eMBB service at the same time. However, this results in a large amount of redundant information in feedback
20 information.

SUMMARY

Implementations of this application provide a method for determining uplink control information and a communications device.

An implementation of this application provides a method for determining uplink control
25 information. The method includes:

CLAIMS

What is claimed is:

1. A method for determining uplink control information, the method comprising:
obtaining, by a communications device, a target parameter set, wherein the target
5 parameter set comprises at least one first parameter value and at least one second parameter
value, the at least one first parameter value is used for transmitting a first kind of data, and
the at least one second parameter value is not used for transmitting the first kind of data; and
determining, by the communications device according to the at least one first parameter
value, a quantity of bits for transmission of feedback information associated with the first
10 kind of data.
2. The method according to claim 1, further comprising: receiving, by the
communications device, a plurality of kinds of data, wherein parameters of different kinds of
data in the plurality of kinds of data are different, and the plurality of kinds of data comprises
the first kind of data.
- 15 3. The method according to claim 2, wherein priorities of different kinds of data in the
plurality of kinds of data are different.
4. The method according to claim 2 or 3, wherein the plurality of kinds of data shares
the target parameter set.
5. The method according to any of claims 1 to 4, wherein the quantity of bits is a quantity
20 of bits of the feedback information transmitted by a physical channel.
6. The method according to any of claims 1 to 5, wherein the target parameter set
configured by the network device.
7. The method according to any of claims 1 to 6, wherein the target parameter set
comprises a hybrid automatic repeat request (HARQ) feedback timing set.
- 25 8. The method according to claim 7, wherein different duration units separately
corresponding to the first parameter value and the second parameter value in the target
parameter set are separately used for transmitting first kind of data and second kind of data.

9. A communications device, comprising an obtaining unit and a determining unit, wherein

the obtaining unit is configured to obtain a target parameter set, wherein the target parameter set comprises at least one first parameter value and at least one second parameter value, the at least one first parameter value is used for transmitting a first kind of data, and the at least one second parameter value is not used for transmitting the first kind of data; and

the determining unit is configured to determine, according to the at least one first parameter value, a quantity of bits for transmission of feedback information associated with the first kind of data.

10. The communications device according to claim 9, wherein the communications device further comprises a communication unit, configured to receive a plurality of kinds of data, wherein parameters of different kinds of data in the plurality of kinds of data are different, and the plurality of kinds of data comprises the first kind of data.

11. The communications device according to claim 10, wherein priorities of different kinds of data in the plurality of kinds of data are different.

12. The communications device according to claim 10 or 11, wherein the plurality of kinds of data shares the target parameter set.

13. The communications device according to any of claims 9 to 12, wherein the quantity of bits is a quantity of bits of the feedback information transmitted by a physical channel.

14. The communications device according to any of claims 9 to 13, wherein the target parameter set is configured by a network device.

15. The communications device according to any of claims 9 to 14, wherein the target parameter set comprises a hybrid automatic repeat request (HARQ) feedback timing set.

16. The communications device according to claim 15, wherein different duration units separately corresponding to the first parameter value and the second parameter value in the target parameter set are separately used for transmitting first kind of data and second kind of data.