CLAIMS

1. A communication method, wherein the method comprises:

receiving configuration information of a quality of service, QoS, flow from a core network device, wherein the configuration information of the QoS flow comprises a first value and a second value of each of M QoS parameters, and M is a positive integer;

determining a third value of each of the M QoS parameters based on the first value and the second value of the QoS parameter in the M QoS parameters; and

transmitting a data packet in the QoS flow based on the third value of each of the M QoS parameters, wherein

a transmission requirement corresponding to the third value of each of the M QoS parameters is lower than or equal to a transmission requirement corresponding to the first value of the QoS parameter, and higher than or equal to a transmission requirement corresponding to the second value of the QoS parameter.

2. The method according to claim 1, wherein the configuration information of the QoS flow comprises first indication information, and the first indication information indicates that, when a third value of at least one of the M QoS parameters changes, the core network device does not need to be notified.

3. The method according to claim 1 or 2, wherein the configuration information of the QoS flow further comprises a first value of each of N QoS parameters; and

transmitting the data packet in the QoS flow based on the third value of each of the M QoS parameters comprises:

transmitting the data packet in the QoS flow based on the third value of each of the M QoS parameters and the first value of each of the N QoS parameters.

4. The method according to any one of claims 1 to 3, wherein the configuration information of the QoS flow comprises first QoS description information, and the first QoS description information comprises the first value and the second value of each of the M QoS parameters; or

the configuration information of the QoS flow comprises second QoS description information and third QoS description information, the second QoS description information comprises the first value of each of the M QoS parameters, and the third QoS description information comprises the second value of each of the M QoS parameters.

5. The method according to any one of claims 1 to 4, wherein the QoS flow comprises a first data packet and a second data packet, a transmission metric of the first data packet meets the transmission requirement corresponding to the first value of each of the M QoS parameters, and the second data packet is a data packet other than the first data packet in the QoS flow; and

a ratio of a quantity of second data packets to a total quantity of data packets in the QoS flow is less than or equal to a threshold.

6. The method according to claim 5, wherein the threshold is comprised in the configuration information of the QoS flow, or the threshold is preconfigured.

7. The method according to any one of claims 1 to 6, wherein the QoS flow comprises the first data packet and the second data packet, the transmission metric of the first data packet meets the transmission requirement corresponding to the first value of each of the M QoS parameters, and the second data packet is a data packet other than the first data packet in the QoS flow; and

the method further comprises:

determining a first ratio of a quantity of first data packets to the total quantity of data packets in the QoS flow, and/or a second ratio of the quantity of second data packets to the total quantity of data packets in the QoS flow; and

sending the first ratio and/or the second ratio to the core network device.

8. The method according to any one of claims 1 to 7, wherein the method further comprises:

sending, to a terminal device, configuration information of a data radio bearer DRB corresponding to the QoS flow, wherein the configuration information of the DRB is determined based on the second value of each of the M QoS parameters.

9. The method according to claim 8, wherein the configuration information of the DRB comprises duration of a discard timer corresponding to the data packet in the QoS flow.

10. The method according to any one of claims 1 to 9, wherein the method further comprises:

receiving second indication information from the terminal device, wherein the second indication information indicates a recommended third value of each of the M QoS parameters; or

receiving second indication information from the terminal device, wherein the second indication information indicates a recommended QoS profile.

11. The method according to any one of claims 1 to 10, wherein the M QoS parameters comprise at least one of the following:

a transmission delay, a transmission reliability, and a transmission rate.

12. A communication method, wherein the method comprises:

determining configuration information of a quality of service, QoS, flow, wherein the configuration information of the QoS flow comprises a first value and a second value of each of M QoS parameters, the first value and the second value of each of the M QoS parameters are used to determine a third value of the QoS parameter, and the third value of each of the M QoS parameters is used to transmit a data packet in the QoS flow; and

sending the configuration information of the QoS flow to an access network device and/or a terminal device, wherein

a transmission requirement corresponding to the third value of each of the M QoS parameters is lower than or equal to a transmission requirement corresponding to the first value of the QoS parameter, and higher than or equal to a transmission requirement corresponding to the second value of the QoS parameter, and M is a positive integer.

13. The method according to claim 12, wherein the configuration information of the QoS flow comprises first indication information, and the first indication information indicates that, when a third value of at least one of the M QoS parameters changes, a core network device does not need to be notified.

14. The method according to claim 12 or 13, wherein the configuration information of the QoS flow comprises first QoS description information, and the first QoS description information comprises the first value and the second value of each of the M QoS parameters; or

the configuration information of the QoS flow comprises second QoS description information and third QoS description information, the second QoS description information comprises the first value of each of the M QoS parameters, and the third QoS description information comprises the second value of each of the M QoS parameters.

15. The method according to any one of claims 12 to 14, wherein the QoS flow comprises a first data packet and a second data packet, a transmission metric of the first data packet meets the transmission requirement corresponding to the first value of each of the M QoS parameters, and the second data packet is a data packet other than the first data packet in the QoS flow; and

the configuration information of the QoS flow comprises a threshold, and a ratio of a quantity of second data packets to a total quantity of data packets in the QoS flow is less than or equal to the threshold.

16. The method according to any one of claims 12 to 15, wherein the QoS flow comprises the first data packet and the second data packet, the transmission metric of the first data packet meets the transmission requirement corresponding to the first value of each of the M QoS parameters, and the second data packet is a data packet other than the first data packet in the QoS flow; and

the method further comprises:

receiving a first ratio of a quantity of first data packets to the total quantity of data packets in the QoS flow, and/or a second ratio of the quantity of second data packets to the total quantity of data packets in the QoS flow.

17. A communication method, wherein the method comprises:

receiving configuration information of a QoS flow from a core network device, wherein the configuration information of the QoS flow comprises a first value and a second value of each of M QoS parameters, and M is a positive integer; and

wherein the configuration information of the QoS flow comprises first QoS description

information, and the first QoS description information comprises the first value and the second value of each of the M QoS parameters; or

the configuration information of the QoS flow comprises second QoS description information and third QoS description information, the second QoS description information comprises the first value of each of the M QoS parameters, and the third QoS description information comprises the second value of each of the M QoS parameters.

18. The method according to claim 17, wherein the method further comprises:

sending second indication information to an access network device, wherein the second indication information indicates a recommended third value of at least one of the M QoS parameters.

19. The method according to claim 17, wherein the method further comprises:

sending second indication information to an access network device, wherein the second indication information indicates a recommended QoS profile.

20. The method according to claim 19, wherein a transmission requirement corresponding to the first value is higher than a transmission requirement corresponding to the second value, the second value corresponds to the relaxed transmission.

21. The method according to claim 18 or 19,

wherein sending the second indication information to the access network device based on service experience awareness information of a user.

22. The method according to claim 17, wherein the method further comprises:

determining, based on the configuration information of the QoS flow, that a data packet in the QoS flow supports a relaxed transmission.

23. The method according to claim 17 or 18, wherein the method further comprises:

receiving configuration information of a data radio bearer DRB corresponding to the QoS flow, wherein the configuration information of the DRB is determined based on the second value of each of the M QoS parameters.

24. The method according to claim 23, wherein the configuration information of the DRB comprises duration of a discard timer corresponding to the data packet in the QoS flow.

25. A communication apparatus, comprising a module configured to perform the method according to any one of claims 1 to 24.

26. A communication apparatus, comprising a processor, wherein the processor is coupled to a memory, the memory stores a computer program, and the processor is configured to invoke the computer program in the memory, to enable the communication apparatus to perform the method according to any one of claims 1 to 24.

27. A communication system, wherein the communication system comprises an access

network device, a core network device, and a terminal device, the access network device is configured to perform the method according to any one of claims 1 to 11, the core network device is configured to perform the method according to any one of claims 12 to 16, and the terminal device is configured to perform the method according to any one of claims 17 to 24.

28. A computer-readable storage medium, wherein the storage medium stores a computer program or instructions, and when the computer program or the instructions are executed by a computer, the method according to any one of claims 1 to 24 is implemented.

29. A computer program product, wherein when a computer reads and executes the computer program product, the computer is enabled to perform the method according to any one of claims 1 to 24.