CLAIMS

1. A buffer status report sending method, wherein the method comprises:

receiving a first configuration message from an access network device, wherein the first configuration message is used to configure a one-to-one correspondence between a plurality of buffer status (BS) intervals and a plurality of index values, and the correspondence is one of a plurality of predefined correspondences between BS intervals and index values; and

sending a buffer status report (BSR) to the access network device based on the correspondence, wherein the BSR comprises a target index value, and the plurality of index values comprise the target index value.

2. The method according to claim 1, wherein the method further comprises:

sending uplink data to the access network device, wherein the uplink data is carried on a logical channel group (LCG), and the LCG is associated with the correspondence.

3. The method according to claim 2, wherein the first configuration message further comprises identification information of the LCG.

4. The method according to claim 2 or 3, wherein an association between the LCG and the correspondence is configured by the first configuration message.

5. The method according to any one of claims 1 to 4, wherein

the plurality of BS intervals comprise a BS interval corresponding to a long BSR.

6. The method according to any one of claims 1 to 5, wherein

the correspondence is comprised in a buffer size table corresponding to the long BSR.

7. A buffer status report receiving method, wherein the method comprises:

sending a first configuration message to a terminal, wherein the first configuration message is used to configure a one-to-one correspondence between a plurality of buffer status (BS) intervals and a plurality of index values, and the correspondence is one of a plurality of predefined correspondences between BS intervals and index values; and

receiving a buffer status report (BSR) from the terminal, wherein the BSR comprises a target index value, and the plurality of index values comprise the target index value.

8. The method according to claim 7, wherein the method further comprises:

receiving uplink data from the terminal, wherein the uplink data is carried on a logical channel group (LCG), and the LCG is associated with the correspondence.

9. The method according to claim 8, wherein the first configuration message further comprises identification information of the LCG.

10. The method according to claim 8 or 9, wherein an association between the LCG and the correspondence is configured by the first configuration message.

11. The method according to any one of claims 7 to 10, wherein

the plurality of BS intervals comprise a BS interval corresponding to a long BSR.

12. The method according to any one of claims 7 to 11, wherein

the correspondence is comprised in a buffer size table corresponding to the long BSR.

13. A communication apparatus, wherein the communication apparatus comprises:

an interface unit, configured to receive a first configuration message from an access network device, wherein the first configuration message is used to configure a one-to-one correspondence between a plurality of buffer status (BS) intervals and a plurality of index values, and the correspondence is one of a plurality of predefined correspondences between BS intervals and index values; and

a processing unit, configured to control, based on the correspondence, the apparatus to send a buffer status report (BSR) to the access network device, wherein the BSR comprises a target index value, and the plurality of index values comprise the target index value.

14. The apparatus according to claim 13, wherein

the interface unit is further configured to send uplink data to the access network device, wherein the uplink data is carried on a logical channel group (LCG), and the LCG is associated with the correspondence.

15. The apparatus according to claim 14, wherein the first configuration message further comprises identification information of the LCG.

16. The apparatus according to claim 14 or 15, wherein an association between the LCG and the correspondence is configured by the first configuration message.

17. The apparatus according to any one of claims 13 to 16, wherein

the plurality of BS intervals comprise a BS interval corresponding to a long BSR.

18. The apparatus according to any one of claims 13 to 17, wherein

the correspondence is comprised in a buffer size table corresponding to the long BSR.

19. A communication apparatus, wherein the communication apparatus comprises:

an interface unit, configured to: send a first configuration message to a terminal, wherein the first configuration message is used to configure a one-to-one correspondence between a plurality of buffer status (BS) intervals and a plurality of index values, and the correspondence is one of a plurality of predefined correspondences between BS intervals and index values; and receive a buffer status report (BSR) from the terminal, wherein the BSR comprises a target

index value, and the plurality of index values comprise the target index value.

20. The apparatus according to claim 19, wherein

the interface unit is further configured to receive uplink data from the terminal, wherein the uplink data is carried on a logical channel group (LCG), and the LCG is associated with the correspondence.

21. The apparatus according to claim 20, wherein the first configuration message further comprises identification information of the LCG.

22. The apparatus according to claim 20 or 21, wherein an association between the LCG and the correspondence is configured by the first configuration message.

23. The apparatus according to any one of claims 19 to 22, wherein

the plurality of BS intervals comprise a BS interval corresponding to a long BSR.

24. The apparatus according to any one of claims 19 to 23, wherein

the correspondence is comprised in a buffer size table corresponding to the long BSR.

25. A communication apparatus, comprising a processor, wherein the processor is coupled to a memory, the memory is configured to store a program or instructions, and when the program or the instructions are executed by the processor, the apparatus is enabled to perform the method according to any one of claims 1 to 6.

26. A communication apparatus, comprising a processor, wherein the processor is coupled to a memory, the memory is configured to store a program or instructions, and when the program or the instructions are executed by the processor, the apparatus is enabled to perform the method according to any one of claims 7 to 12.

27. 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, the method according to any one of claims 1 to 6 or the method according to any one of claims 7 to 12 is implemented.

28. A computer program product, comprising computer program code, wherein when the computer program code is run, the method according to any one of claims 1 to 6 or the method according to any one of claims 7 to 12 is implemented.

29. A communication system, comprising the apparatus according to any one of claims 13 to 18 and the apparatus according to any one of claims 19 to 24.