CLAIMS

1. A method for reporting a buffer status report (BSR), performed by a terminal, and the method comprising:

sending a BSR comprising assistance information to an access network device,

wherein the assistance information assists the access network device in performing data scheduling of a predefined service.

2. The method according to claim 1, wherein the assistance information indicates an urgency degree of scheduling data of the predefined service.

3. The method according to claim 1, wherein the predefined service is an extended reality XR service.

4. The method according to claim 1, wherein the assistance information is carried by a predetermined information field of a media access control (MAC) control unit (CE) for sending the BSR.

5. The method according to claim 4, wherein the assistance information is associated with a predetermined logical channel identifier (LCID).

6. The method according to claim 1, further comprising:

receiving configuration information sent by the access network device,

wherein the configuration information indicates the terminal to report the BSR.

7. The method according to claim 6, wherein the configuration information indicates one of:

the terminal reporting the BSR with the terminal as a granularity;

the terminal reporting the BSR with a logical channel group (LCG) as the granularity; and

the terminal reporting the BSR with a logical channel as the granularity.

8. The method according to claim 1, wherein sending the BSR comprising assistance information to the access network device comprises:

sending the BSR to the access network device based on a reporting manner with an LCG as a granularity;

or,

sending the BSR to the access network device based on a reporting manner with a single logical channel as the granularity.

9. The method according to claim 1, further comprising:

sending reference information to the access network device,

wherein the reference information indicates the terminal supporting or not supporting an ability to report the BSR; and/or, the reference information indicates the terminal expecting or not expecting to report the BSR.

10. A method for reporting a buffer status report (BSR), performed by an access network device, and the method comprising:

receiving a BSR comprising assistance information sent by a terminal;

wherein the assistance information assists the access network device in performing data scheduling of a predefined service.

11. The method according to claim 10, wherein the assistance information indicates an urgency degree of scheduling data of the predefined service.

12. The method according to claim 11, wherein the assistance information is used by a network to determine a scheduling priority of scheduling the data of the predefined service.

13. The method according to claim 10, wherein the assistance information is carried by a predetermined information field of a media access control (MAC) control unit (CE) for sending the BSR, wherein the assistance information is associated with a predetermined logical channel identifier (LCID).

14. The method according to claim 10, further comprising:

sending configuration information to the terminal;

wherein the configuration information indicates the terminal to report the BSR.

15. The method according to claim 14, further comprising:

receiving reference information sent by the terminal;

wherein the reference information indicates the terminal supporting or not supporting an ability to report the BSR; and/or, the reference information indicates the terminal expecting or not expecting to report the BSR;

determining the configuration information based on the reference information.

16. The method according to claim 15, wherein the configuration information indicates one of:

the terminal reporting the BSR with the terminal as a granularity;

the terminal reporting the BSR with a logical channel group (LCG) as the granularity; and

the terminal reporting the BSR with a logical channel as the granularity.

17. The method according to claim 10, wherein receiving the BSR comprising assistance information sent by the terminal comprises:

receiving the BSR sent by the terminal based on a reporting manner with an LCG as a granularity;

or,

receiving the BSR sent by the terminal based on a reporting manner with a single logical channel as the granularity.

18. An apparatus for reporting a buffer status report (BSR), comprising:

a sending module, configured to send a BSR comprising assistance information to an access network device,

wherein the assistance information assists the access network device in performing data scheduling of a predefined service.

19. An apparatus for reporting a buffer status report (BSR), comprising:

a receiving module, configured to receive a BSR comprising assistance information sent by a terminal;

wherein the assistance information assists the access network device in performing data scheduling of a predefined service.

20. A communication device, comprising:

an antenna;

a memory; and

a processor, connected to the antenna and the memory respectively, configured to control transmission and reception of the antenna by executing computer executable instructions stored on the memory, and capable of implementing the method provided in any one of claims 1 to 9 or 10 to 17.