CLAIMS

What is claimed is:

1. A mode switching method, applied to a target network-side device, wherein the method comprises:

reserving a multicast air interface resource in a case that multicast quality of service QoS information is received from a multicast broadcast network function MB NF, wherein the multicast air interface resource is used for a terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data; and

sending the multicast air interface resource to a source network-side device or the MB NF.

2. The method according to claim 1, wherein before the reserving a multicast air interface resource, the method further comprises:

receiving identification information of a protocol data unit PDU session from the source network-side device; and

sending the identification information of the PDU session to the MB NF.

3. The method according to claim 1, wherein before the reserving a multicast air interface resource, the method further comprises: receiving, from the source network-side device, at least one of the following:

a mode switching indication; and

the target mode.

4. The method according to claim 3, wherein the mode switching indication comprises a specific QoS flow identifier.

5. The method according to claim 2, wherein the method further comprises: receiving, from the MB NF, at least one of the following:

a QoS parameter corresponding to the PDU session; and

multicast information.

6. The method according to claim 1, wherein before the reserving a multicast air interface resource, the method further comprises: receiving, from the MB NF, at least one of the following:

a mode switching indication;

the target mode;

a QoS parameter corresponding to the PDU session; and

multicast information.

7. The method according to claim 5 or 6, wherein in a case that the QoS parameter corresponding to the PDU session is received, the method further comprises:

reserving an air interface resource for the PDU session.

8. The method according to claim 1, wherein the method further comprises: sending to the MB NF at least one of the following:

an air interface resource for a PDU session; and

a multicast downlink tunnel resource for receiving the multicast service data.

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

receiving the multicast service data by using the multicast downlink tunnel resource; and

sending the multicast service data to the terminal by using the multicast air interface resource.

10. A mode switching method, applied to an MB NF, wherein the method comprises:

sending multicast QoS information to a target network-side device, wherein the multicast QoS information is used for the target network-side device to reserve a multicast air interface resource, the multicast air interface resource is used for a terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data.

11. The method according to claim 10, wherein the method further comprises:

receiving the multicast air interface resource.

12. The method according to claim 10, wherein the method further comprises:

receiving identification information of a PDU session from the target network-side device, wherein the identification information of the PDU session is sent by a source network-side device to the target network-side device.

13. The method according to claim 12, wherein the method further comprises: sending to the target network-side device at least one of the following:

a QoS parameter corresponding to the PDU session; and

multicast information.

14. The method according to claim 10, wherein the method further comprises: sending to the target network-side device at least one of the following:

a mode switching indication;

the target mode;

a QoS parameter corresponding to the PDU session; and

multicast information.

15. The method according to claim 10, wherein the method further comprises: receiving, from the target network-side device, at least one of the following:

an air interface resource for a PDU session; and

a multicast downlink tunnel resource for sending the multicast service data~~.~~, and

~~16. The method according to claim 15,~~ wherein the method further comprises:

sending the multicast service data by using the multicast downlink tunnel resource.

~~17~~16. A mode switching method, applied to a source network-side device, wherein the method comprises:

receiving a multicast air interface resource, wherein the multicast air interface resource is reserved by a target network-side device in a case that multicast QoS information is received from an MB NF, the multicast air interface resource is used for a terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data.

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

~~sending identification information of a PDU session to the target network-side device.~~

~~19~~17. A mode switching method, applied to a terminal, wherein the method comprises:

receiving a multicast air interface resource, wherein the multicast air interface resource is reserved by a target network-side device in a case that multicast QoS information is received from an MB NF, the multicast air interface resource is used for the terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data.

~~20. A mode switching apparatus, wherein the apparatus comprises:~~

~~a resource reservation module, configured to reserve a multicast air interface resource in a case that multicast QoS information is received from an MB NF, wherein the multicast air interface resource is used for a terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data; and~~

~~a sending module, configured to send the multicast air interface resource to a source network-side device or the MB NF.~~

~~21. A mode switching apparatus, wherein the apparatus comprises:~~

~~a sending module, configured to send multicast QoS information to a target network-side device, wherein the multicast QoS information is used for the target network-side device to reserve a multicast air interface resource, the multicast air interface resource is used for a terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data.~~

~~22. A mode switching apparatus, wherein the apparatus comprises:~~

~~a receiving module, configured to receive a multicast air interface resource, wherein the multicast air interface resource is reserved by a target network-side device in a case that multicast QoS information is received from an MB NF, the multicast air interface resource is used for a terminal to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data.~~

~~23. A mode switching apparatus, wherein the apparatus comprises:~~

~~a receiving module, configured to receive a multicast air interface resource, wherein the multicast air interface resource is reserved by a target network-side device in a case that multicast QoS information is received from an MB-NF, the multicast air interface resource is used for the apparatus to receive multicast service data in a switched-to target mode, and the multicast QoS information corresponds to the multicast service data.~~

~~24~~18. A terminal, comprising a processor, a memory, and a program or instructions stored in the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the mode switching method according to claim ~~19~~ 17 is implemented.

~~25~~19. A network-side device, comprising a processor, a memory, and a program or instructions stored in the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the mode switching method according to any one of claims 1 to ~~18~~ 16 is implemented.

~~26~~20. A readable storage medium, wherein the readable storage medium stores a program or instructions, and when the program or instructions are executed by a processor, the mode switching method according to any one of claims 1 to ~~18~~ 16 is implemented, or the mode switching method according to claim ~~19~~ 17 is implemented.

~~27. A computer program product, wherein the program product is stored in a non-volatile storage medium, and the program product is executed by at least one processor to implement the mode switching method according to any one of claims 1 to 18 or the mode switching method according to claim 19.~~

~~28. An electronic device, wherein the electronic device is configured to execute the mode switching method according to any one of claims 1 to 18 or the mode switching method according to claim 19.~~

~~29. A chip, wherein the chip comprises a processor and a communications interface, the communications interface is coupled to the processor, and the processor is configured to execute a program or instructions to implement the mode switching method according to any one of claims 1 to 18 or the mode switching method according to claim 19.~~