

CLAIMS

1. A method for remapping a Quality of Service, QoS, flow, comprising:

after determining, by a first device, that a first QoS flow needs to be remapped from a first Data Radio Bearer, DRB, to a second DRB, determining, by a Service Data Adaptation Protocol, SDAP, entity of the first device, a first data packet, the first data packet being an end data packet sent on the first DRB, in the first QoS flow; and

after determining, by the SDAP entity of the first device, that transmission of the first data packet in the first QoS flow is completed on the first DRB, mapping the first QoS flow to the second DRB, and transmitting, on the second DRB, data packets following the first data packet in the first QoS flow.

2. The method of claim 1, wherein determining, by the SDAP entity of the first device, that transmission of the first data packet in the first QoS flow is completed on the first DRB comprises:

sending, by the SDAP entity of the first device, first indication information to a Packet Data Convergence Protocol, PDCP, entity corresponding to the first DRB, the first indication information indicating that the end data packet sent on the first DRB in the first QoS flow is the first data packet.

3. The method of claim 2, wherein determining, by the SDAP entity of the first device, that transmission of the first data packet in the first QoS flow is completed on the first DRB further comprises:

after determining, by the PDCP entity corresponding to the first DRB, that the first data packet is successfully received by a second device, sending second indication information to the SDAP entity of the first device, the second indication information indicating that transmission of the first data packet in the first QoS flow is completed on the first DRB.

4. The method of any one of claims 1 to 3, wherein mapping the first QoS flow to the second DRB and transmitting, on the second DRB, data packets following the first data packet in the first QoS flow comprises:

mapping, by the SDAP entity of the first device, data packets following the first data packet in the first QoS flow to the second DRB, and sending, by a PDCP entity corresponding to the second DRB, the data packets following the first data packet in the first QoS flow.

5. The method of any one of claims 1 to 4, further comprising:

after determining, by the first device, that the first QoS flow needs to be remapped from the first DRB to the second DRB, caching, by the SDAP entity of the first device, the data packets following the first data packet in the first QoS flow.

6. The method of claim 5, wherein mapping the first QoS flow to the second DRB and transmitting, on the second DRB, data packets following the first data packet in the first QoS flow comprises:

transmitting, on the second DRB, the cached data packets following the first data packet in the first QoS flow.

7. The method of any one of claims 1 to 6, wherein determining, by the first device, that the first QoS flow needs to be remapped from a first DRB to a second DRB comprises:

determining, by the first device, that the first QoS flow needs to be remapped from the first DRB to the second DRB based on an obtained mapping relationship between the first QoS flow and the second DRB.

8. The method of claim 7, wherein the mapping relationship between the first QoS flow and the second DRB is determined based on QoS of the first QoS flow or based on a Radio Resource Control, RRC, signaling.

9. The method of any one of claims 1 to 8, wherein the first device is a base station or a terminal.

10. A device for remapping a Quality of Service, QoS, flow, applied to a first terminal, the device comprising:

- a first determination unit configured to determine that a first QoS flow needs to be remapped from a first Data Radio Bearer (DRB) to a second DRB;

- a second determination unit configured to determine a first data packet by a Service Data Adaptation Protocol (SDAP) entity of the first device, the first data packet being an end data packet sent on the first DRB, in the first QoS flow;

- a third determination unit configured to determine, by the SDAP entity of the first device, that transmission of the first data packet in the first QoS flow is completed on the first DRB; and

- a transmission unit configured to map the first QoS flow to the second DRB and transmit, on the second DRB, data packets following the first data packet in the first QoS flow.

11. The device of claim 10, wherein the third determination unit is configured to: send, by the SDAP entity of the first device, first indication information to a Packet Data Convergence Protocol (PDCP) entity corresponding to the first DRB, the first indication information indicating that the end data packet sent on the first DRB in the first QoS flow is the first data packet.

12. The device of claim 11, wherein the third determination unit is further configured to: after the PDCP entity corresponding to the first DRB determines that the first data packet is successfully received by a second device, send second indication information to the SDAP entity of the first device, the second indication information indicating that transmission of the first data packet in the first QoS flow is completed

on the first DRB.

13. The device of any one of claim 10 to 12, wherein the transmission unit is configured to: map, by the SDAP entity of the first device, data packets following the first data packet in the first QoS flow to the second DRB; and send, by a PDCP entity corresponding to the second DRB, the data packets following the first data packet in the first QoS flow.

14. The device of any one of claims 10 to 13, wherein the first determination unit is configured to determine that the first QoS flow needs to be remapped from the first DRB to the second DRB based on an obtained mapping relationship between the first QoS flow and the second DRB.

15. The device of claim 14, wherein the mapping relationship between the first QoS flow and the second DRB is determined based on QoS of the first QoS flow or based on a Radio Resource Control (RRC) signaling.

16. The device of any one of claims 10 to 15, wherein the first device is a base station or a terminal.