CLAIMS

What is claimed is:

1. A method for handling a protocol data unit session, applied to user equipment and comprising:

transmitting a protocol data unit (PDU) session release request to a network device in a case that at least one of the number of an authorized quality of service (QoS) rule, the number of packet filter, and/or the number of authorized QoS flow description configured by the network device for a PDU session exceeds a maximum support capability set by the user equipment for the PDU session.

2. The method according to claim 1, wherein before the transmitting a PDU session release request to a network device, the method further comprises:

obtaining the number of authorized QoS rules, number of packet filters, and/or number of authorized QoS flow descriptions configured by the network device for the PDU session, according to the authorized QoS rule, packet filter, and/or authorized QoS flow description configured by the network device for the PDU session; and

determining whether or not the number of authorized QoS rules, number of packet filters, and/or number of authorized QoS flow descriptions exceeds a maximum support capability set by the user equipment for the PDU session, wherein the maximum support capability set by the user equipment for the PDU session comprises a maximum number of supported authorized QoS rules, maximum number of supported packet filters, and/or maximum number of supported authorized QoS flow descriptions configured by the user equipment for the PDU session.

3. The method according to claim 1, wherein the transmitting a PDU session release request to a network device in a case that at least one of the number of the authorized QoS rule, the number of the packet filter, and/or the number of the authorized QoS flow description configured by the network device for the PDU session exceeds a maximum support capability set by the user equipment for the PDU session comprises:

if a maximum support capability set by the user equipment for the PDU session is updated, transmitting a PDU session release request to a network device in a case that at least one of the

number of the authorized QoS rule, the number of the packet filter, and/or the number of the authorized QoS flow description configured by the network device for the PDU session exceeds an updated maximum support capability.

4. The method according to claim 1, wherein the PDU session release request comprises a release cause for indicating lack of resources;

and/or,

wherein the at least one of the authorized QoS rule, packet filter, and/or authorized QoS flow description is comprised in a PDU session establishment accept message.

5. A method for handling a protocol data unit session, applied to user equipment and comprising:

transmitting a maximum support capability set by the user equipment for the protocol data unit (PDU) session to a network device, wherein the maximum support capability set by the user equipment for the PDU session comprises at least one of a maximum number of supported authorized quality of service (QoS) rules, a maximum number of supported packet filters, and/or a maximum number of supported authorized QoS flow descriptions.

6. The method according to claim 5, wherein after the transmitting a maximum support capability set by the user equipment for the PDU session to a network device, the method further comprises:

receiving at least one of an authorized QoS rule, packet filter, and/or authorized QoS flow description configured by the network device for the PDU session.

7. The method according to claim 6, wherein a corresponding number of authorized QoS rules configured by the network device for the PDU session does not exceed the maximum number of supported authorized QoS rules set by the user equipment for the PDU session;

a corresponding number of packet filters configured by the network device for the PDU session does not exceed the maximum number of supported packet filters set by the user equipment for the PDU session; and

a corresponding number of authorized QoS flow descriptions configured by the network device for the PDU session does not exceed the maximum number of supported authorized QoS flow descriptions set by the user equipment for the PDU session.

8. The method according to claim 6, wherein after the receiving, the method further comprises:

if the maximum support capability set by the user equipment for the PDU session is updated, transmitting a PDU session release request to the network device in a case that the at least one of the authorized QoS rule, packet filter, and/or authorized QoS flow description configured by the network device for the PDU session exceeds an updated maximum support capability.

9. The method according to claim 6, wherein the maximum support capability set by the user equipment for the PDU session is comprised in a PDU session establishment request message; and

the authorized QoS rule, packet filter, and/or authorized QoS flow description configured by the network device for the PDU session is comprised in a PDU session establishment accept message.

10. A method for handling a protocol data unit session, applied to a network device and comprising:

receiving a maximum support capability set by user equipment for the protocol data unit (PDU) session, wherein the maximum support capability set by the user equipment for the PDU session comprises at least one of a maximum number of supported authorized quality of service (QoS) rules, a maximum number of supported packet filters, and/or a maximum number of supported authorized QoS flow descriptions.

11. The method according to claim 10, wherein after the receiving a maximum support capability set by user equipment for the protocol data unit (PDU) session, the method further comprises:

configuring for the PDU session an authorized QoS rule, a packet filter, and/or an authorized QoS flow description, based on the maximum support capability set by the user equipment for the PDU session; and

transmitting, to the user equipment, the authorized QoS rule, packet filter, and/or authorized QoS flow description configured by the network device for the PDU session.

12. The method according to claim 11, wherein a corresponding number of authorized QoS rules configured by the network device for the PDU session does not exceed the maximum number of supported authorized QoS rules set by the user equipment for the PDU session;

a corresponding number of packet filters configured by the network device for the PDU session does not exceed the maximum number of supported packet filters set by the user equipment for the PDU session; and

a corresponding number of authorized QoS flow descriptions configured by the network device for the PDU session does not exceed the maximum number of supported authorized QoS flow descriptions set by the user equipment for the PDU session.

13. The method according to claim 11, wherein after the transmitting, the method further comprises:

receiving a PDU session release request; and

releasing a resource for the PDU session according to the PDU session release request.

14. The method according to claim 11, wherein the maximum support capability set by the user equipment for the PDU session is comprised in a PDU session establishment request message; and

the authorized QoS rule, packet filter, and/or authorized QoS flow description configured by the network device for the PDU session is comprised in a PDU session establishment accept message.

15. An apparatus for handling a protocol data unit session, comprising:

a first transmitting module, configured to transmit a protocol data unit PDU session release request to a network device in a case that at least one of the number of an authorized quality of service QoS rule, the number of packet filter, and/or the number of authorized QoS flow description configured by the network device for the PDU session exceeds a maximum support capability set by user equipment for the PDU session.

16. The apparatus for handling the protocol data unit session according to claim 15, wherein the PDU session release request comprises a release cause for indicating lack of resources;

and/or,

wherein the at least one of the authorized QoS rule, packet filter, and/or authorized QoS flow description is comprised in a PDU session establishment accept message.

17. An apparatus for handling a protocol data unit session, comprising:

a second transmitting module, configured to transmit a maximum support capability set by user equipment for the protocol data unit (PDU) session, wherein the maximum support capability set by the user equipment for the PDU session comprises at least one of a maximum number of supported authorized quality of service (QoS) rules, a maximum number of supported packet filters, and/or a maximum number of supported authorized QoS flow descriptions.

18. An apparatus for handling a protocol data unit session, comprising:

a first receiving module, configured to receive a maximum support capability set by user equipment for the protocol data unit (PDU) session, wherein the maximum support capability set by the user equipment for the PDU session comprises at least one of a maximum number of supported authorized quality of service (QoS) rules, a maximum number of supported packet filters, and/or a maximum number of supported authorized QoS flow descriptions.

19. An electronic device, comprising:

a processor; and

a memory storing a computer-executable instruction, wherein when the executable instruction is executed, the processor is used to execute the method according to any one of claims 1 to 4, or execute the method according to any one of claims 5 to 9, or execute the method according to any one of claims 10 to 14.

20. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store a computer-executable instruction, and when the computer-executable instruction is executed by a processor, the method according to any one of claims 1 to 4 is implemented; or

the method according to any one of claims 5 to 9 is implemented; or

the method according to any one of claims 10 to 14 is implemented.