CLAIMS

1. A quality of service, QoS management method, wherein the method comprises:

sending first information, wherein the first information is used to request QoS for a first service;

receiving second information, wherein the second information indicates a QoS control manner and a QoS parameter of a first QoS flow, the first QoS flow is used for transmitting a data flow of the first service, and the QoS control manner comprises a first control manner for controlling based on a data packet group; and

performing QoS control on the data flow of the first service based on the second information.

2. The method according to claim 1, wherein the QoS control manner further comprises a second control manner for controlling based on a data packet.

3. The method according to claim 1 or 2, wherein the second information comprises a first QoS parameter, the first QoS parameter comprises N data packet group–based QoS parameters, N≥1, and N is a positive integer.

4. The method according to claim 1, wherein the second information comprises first indication information and a second QoS parameter, the first indication information indicates the QoS control manner of the first QoS flow, and the second QoS parameter indicates the QoS parameter of the first QoS flow.

5. The method according to claim 4, wherein when the first indication information indicates that the QoS control manner of the first QoS flow is the first control manner, the second QoS parameter comprises at least one data packet group–based QoS parameter; or

when the first indication information indicates that the QoS control manner of the first QoS flow is a second control manner, the second QoS parameter comprises at least one data packet–based QoS parameter.

6. The method according to claim 4, wherein the second QoS parameter comprises at least one data packet–based QoS parameter.

7. The method according to any one of claims 4 to 6, wherein the first indication information indicates a preferred QoS control manner of the first QoS flow.

8. The method according to claim 1, wherein the second information comprises second indication information, a third QoS parameter, and a fourth QoS parameter, the second indication information indicates a preferred QoS control manner of the first QoS flow, the third QoS parameter comprises M data packet group–based QoS parameters, M≥1 and M is a positive integer, the fourth QoS parameter comprises L data packet–based QoS parameters, and L≥1 and L is a positive integer.

9. The method according to claim 3, wherein the first QoS parameter comprises at least one of a group priority level, a group delay budget, a group error rate, an aggregation group error rate, a maximum group loss rate, and a maximum aggregation group loss rate.

10. The method according to claim 9, wherein the group priority level indicates priority levels for scheduling different data packet groups on the first QoS flow;

the group delay budget indicates an upper bound for a time that a data packet group on the first QoS flow is delayed between a first device and a second network element, wherein the second network element is a user plane function UPF network element;

the group error rate indicates an upper bound for a rate of data packets groups that are not successfully delivered on the first QoS flow;

the aggregation group error rate indicates an upper bound for a rate of weighted data packet groups that are not successfully delivered on the first QoS flow;

the maximum group loss rate indicates an upper bound for lost data packet groups on the first QoS flow that can be tolerated; and

the maximum aggregation group loss rate indicates an upper bound for lost weighted data packet groups on the first QoS flow that can be tolerated.

11. A quality of service, QoS management method, wherein the method comprises:

receiving first information, wherein the first information is used to request QoS for a first service; and

sending second information, wherein the second information indicates a QoS control manner and a QoS parameter of a first QoS flow, the first QoS flow is for transmitting a data flow of the first service, and the QoS control manner comprises a first control manner for controlling based on a data packet group.

12. The method according to claim 11, wherein the second information comprises a first QoS parameter, the first QoS parameter comprises N data packet group–based QoS parameters, $N \geq 1$, and N is a positive integer.

13. The method according to claim 11, wherein the second information comprises first indication information and a second QoS parameter, the first indication information indicates the QoS control manner of the first QoS flow, and the second QoS parameter indicates the QoS parameter of the first QoS flow.

14. An apparatus, comprising a module or unit configured to perform the method according to any one of claims 1 to 10.

15. An apparatus, comprising a module or unit configured to perform the method according to any one of claims 11 to 13.