CLAIMS

What is claimed is:

1. A path selection method, applied to a terminal and comprising:

transmitting a path selection request to a network-side device, wherein the path selection request comprises identification information of a candidate relay node and a transmission parameter of a first transmission;

receiving a response message transmitted by the network-side device, the response message comprises relay path indication information, wherein the relay path indication information comprises configuration information of the candidate relay node, the configuration information of the candidate relay node being determined by the network-side device based on the transmission parameter of the first transmission;

determining a target relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission, wherein the target relay node is a relay node selected by the terminal from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission; and

using the target relay node to perform the first transmission.

2. The method according to claim 1, wherein

the relay path indication information comprises the identification information of the target relay node, and the target relay node is a relay node selected by the network-side device from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission;

wherein if the number of relay nodes, in the candidate relay node, whose configuration information matches the transmission parameter of the first transmission is greater than 1, the relay path indication information comprises:

identification information of a relay node that meets a preset condition among the relay nodes whose configuration information matches the transmission parameter of the

first transmission, wherein the target relay node is the relay node that meets the preset condition; or

an identification information list of the relay nodes whose configuration information matches the transmission parameter of the first transmission, wherein sorting of the identification information list matches a configuration priority sequence of the relay nodes, and the target relay node is a relay node selected by the terminal based on the sorting of the identification information list.

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

in a case that the response message does not comprise the relay path indication information, using a direct path to perform the first transmission;

wherein the using, in a case that the response message does not comprise the relay path indication information, a direct path to perform the first transmission comprises:

in a case that the response message does not comprise the relay path indication information but comprises direct path indication information, using the direct path to perform the first transmission.

4. The method according to claim 1, wherein the configuration information of the candidate relay node comprises at least one of the following:

quality of service QoS information supported by the candidate relay node;

load information of a network to which the candidate relay node belongs;

network slice selection assistance information NSSAI of a network to which the candidate relay node belongs;

a session and service continuity SSC mode of a network to which the candidate relay node belongs;

information about a protocol data unit PDU session that the candidate relay node has established; and

moving track information of the candidate relay node;

wherein the transmission parameter of the first transmission comprises at least one of the following:

an identifier of the first transmission;

QoS required for the first transmission;

NSSAI of the first transmission;

an SSC mode of the first transmission; and

a data network name DNN of the first transmission.

5. A path selection method, applied to a network-side device and comprising:

receiving a path selection request transmitted by a terminal, wherein the path selection request comprises identification information of a candidate relay node and a transmission parameter of a first transmission; and

transmitting a response message to the terminal, wherein the response message comprises relay path indication information, the relay path indication information comprising configuration information of the candidate relay node, wherein the configuration information of the candidate relay node is used to assist determination of a target relay node, the configuration information of the candidate relay node is determined by the network-side device based on the transmission parameter of the first transmission, and the target relay node is a relay node selected by the terminal from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission.

6. The method according to claim 5, wherein

the relay path indication information comprises the identification information of the target relay node, and the target relay node is a relay node selected by the network-side device from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission;

wherein if the number of relay nodes, in the candidate relay node, whose configuration information matches the transmission parameter of the first transmission is greater than 1, the relay path indication information comprises:

identification information of a relay node that meets a preset condition among the relay nodes whose configuration information matches the transmission parameter of the first transmission, wherein the target relay node is the relay node that meets the preset condition; or

an identification information list of the relay nodes whose configuration information matches the transmission parameter of the first transmission, wherein

sorting of the identification information list matches a configuration priority sequence of the relay nodes, and the target relay node is a relay node selected by the terminal based on the sorting of the identification information list.

7. The method according to claim 5, wherein the configuration information of the candidate relay node comprises at least one of the following:

quality of service QoS information supported by the candidate relay node;

load information of a network to which the candidate relay node belongs;

network slice selection assistance information NSSAI of a network to which the candidate relay node belongs;

a session and service continuity SSC mode of a network to which the candidate relay node belongs;

information about a protocol data unit PDU session that the candidate relay node has established; and

moving track information of the candidate relay node;

wherein the transmission parameter of the first transmission comprises at least one of the following:

an identifier of the first transmission;

QoS required for the first transmission;

NSSAI of the first transmission;

an SSC mode of the first transmission; and

a data network name DNN of the first transmission.

8. A terminal, comprising:

a transmitting module, configured to transmit a path selection request to a network-side device, wherein the path selection request comprises identification information of a candidate relay node, and a transmission parameter of a first transmission;

a receiving module, configured to receive a response message transmitted by the network-side device, the response message comprises relay path indication information, wherein the relay path indication information comprises configuration information of the candidate relay node, the configuration information of the candidate relay node

being determined by the network-side device based on the transmission parameter of the first transmission; and

a first path selection module, configured to: determine a target relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission and use the target relay node to perform the first transmission, wherein the configuration information of the candidate relay node is determined by the network-side device based on the transmission parameter of the first transmission, and the target relay node is a relay node selected by the terminal from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission.

9. The terminal according to claim 8, wherein

the relay path indication information comprises the identification information of the target relay node, and the target relay node is a relay node selected by the network-side device from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission;

wherein if the number of relay nodes, in the candidate relay node, whose configuration information matches the transmission parameter of the first transmission is greater than 1, the relay path indication information comprises:

identification information of a relay node that meets a preset condition among the relay nodes whose configuration information matches the transmission parameter of the first transmission, wherein the target relay node is the relay node that meets the preset condition; or

an identification information list of the relay nodes whose configuration information matches the transmission parameter of the first transmission, wherein sorting of the identification information list matches a configuration priority sequence of the relay nodes, and the target relay node is a relay node selected by the terminal based on the sorting of the identification information list.

10. The terminal according to claim 8, further comprising:

a second path selection module, configured to: in a case that the response message does not comprise the relay path indication information, use a direct path to perform the first transmission.

11. A network-side device, comprising:

a receiving module, configured to receive a path selection request transmitted by a terminal, wherein the path selection request comprises identification information of a candidate relay node and a transmission parameter of a first transmission; and

a transmitting module, configured to transmit a response message to the terminal, wherein the response message comprises relay path indication information, the relay path indication information comprising configuration information of the candidate relay node, wherein the configuration information of the candidate relay node is used to assist determination of a target relay node, the configuration information of the candidate relay node is determined by the network-side device based on the transmission parameter of the first transmission, and the target relay node is a relay node selected by the terminal from the candidate relay node based on the configuration information of the candidate relay node and the transmission parameter of the first transmission.

12. A terminal, comprising a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the path selection method according to any one of claims 1 to 4 are implemented.

13. A network-side device, comprising a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the path selection method according to any one of claims 5 to 7 are implemented.

14. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the steps of the path selection method according to any one of claims 1 to 4 are implemented, or the steps of the path selection method according to any one of claims 5 to 7 are implemented.