CLAIMS

What is claimed is:

1. A connection method, comprising:

obtaining, by an access network device, connection mode preference information of a first terminal device, wherein the connection mode preference information indicates a connection mode preference of the first terminal device, and the connection mode preference is a Uu interface and PC5 interface dual connectivity; and

sending, by the access network device, path switching information to the first terminal device based on the connection mode preference information, comprising:

determining, by the access network device, in response to the connection mode currently used between the first terminal device and the access network device being a PC5 interface single connectivity, and a signal of a Uu interface of the first terminal device meeting a first preset condition, to switch the connection mode between the first terminal device and the access network device to the Uu interface and PC5 interface dual connectivity; and

sending, by the access network device, the path switching information to the first terminal device, wherein the path switching information is used to switch a connection mode between the first terminal device and the access network device, and the path switching information comprises first indication information, and the first indication information indicates the first terminal device to establish a Uu interface connection to the access network device, and maintain a PC5 interface connection to a relay device.

2. The method according to claim 1, wherein before the determining, by the access network device, to switch the connection mode between the first terminal device and the access network device to the Uu interface and PC5 interface dual connectivity, the method further comprises:

determining, by the access network device based on path support capability information of the first terminal device, that the first terminal device supports the Uu interface and PC5 interface dual connectivity.

3. The method according to claim 1 or 2, wherein the first preset condition comprises at least one of:

a signal strength of the Uu interface is greater than or equal to a first strength threshold;

a signal strength of the Uu interface is greater than a first strength threshold;

signal quality of the Uu interface is greater than or equal to a first quality threshold;

signal quality of the Uu interface is greater than a first quality threshold;

a signal-to-noise ratio of the Uu interface is greater than or equal to a first signal-to-noise ratio threshold; or

a signal-to-noise ratio of the Uu interface is greater than a first signal-to-noise ratio threshold.

4. The method according to any one of claims 1 to 3, wherein the connection mode preference of the first terminal device is a connection mode in which the first terminal device is allowed to be connected to an access network device.

5. The method according to any one of claims 1 to 4, wherein the obtaining, by an access network device, connection mode preference information of a first terminal device comprises:

receiving, by the access network device, the connection mode preference information from a first network device, wherein the first network device is an access and mobility management function device or a session management device.

6. The method according to any one of claims 1 to 4, wherein the obtaining, by an access network device, connection mode preference information of a first terminal device comprises:

receiving, by the access network device, the connection mode preference information from the first terminal device.

7. A connection method, comprising:

obtaining, by a first network device, connection mode preference information of a first terminal device, wherein the connection mode preference information indicates a connection mode preference of the first terminal device, and the connection mode preference is a Uu interface and PC5 interface dual connectivity; and

sending, by the first network device, the connection mode preference information to an access network device.

8. The method according to claim 7, wherein the obtaining, by a first network device, connection mode preference information of a first terminal device comprises:

obtaining, by the first network device, subscription data of the first terminal device; and

obtaining, by the first network device, the connection mode preference information based on the subscription data of the first terminal device.

9. The method according to claim 7 or 8, wherein the first network device is an access and

mobility management function device, and before the obtaining, by a first network device, connection mode preference information of a first terminal device, the method further comprises:

receiving, by the access and mobility management function device, a registration request from the first terminal device, wherein the registration request comprises path support capability information of the first terminal device, wherein

the path support capability information indicates that the first terminal device supports one or more of the following: Uu interface and PC5 interface dual connectivity, Uu interface single connectivity, or PC5 interface single connectivity.

10. A connection method, comprising:

determining, by a first terminal device, a connection mode preference, wherein the connection mode preference is a Uu interface and PC5 interface dual connectivity;

sending, by the first terminal device, connection mode preference information to an access network device, wherein the connection mode preference information indicates the connection mode preference of the first terminal device;

receiving, by the first terminal device, path switching information from the access network device; and

switching, by the first terminal device, a connection mode between the first terminal device and the access network device based on the path switching information, wherein

the path switching information comprises first indication information, and the first indication information indicates the first terminal device to establish a Uu interface connection to the access network device, and maintain a PC5 interface connection to a relay device.

11. A communication device, comprising a processor, wherein the processor is coupled to a memory, and the memory is configured to store computer instructions; and the processor executes the computer instructions, to enable the communication device to perform the method according to any one of claims 1 to 10.

12. A communication system, wherein the system comprises an access network device and a first network device, wherein

the access network device is configured to perform the method according to any one of claims 1 to 5; and

the first network device is configured to perform the method according to any one of claims 7 to 10.

13. A communication system, wherein the system comprises an access network device and a first terminal device, wherein

the access network device is configured to perform the method according to any one of claims 1 to 6; and

the first terminal device is configured to perform the method according to claim 10.

14. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions; and the computer instructions instruct a communication device to perform the method according to any one of claims 1 to 10.

15. A chip, comprising a processor and an interface, and configured to execute a computer program or instructions stored in a memory, to perform the method according to any one of claims 1 to 10.