CLAIMS

1. A method for configuring a relay mode, applied to a User Equipment (UE) and comprising:

receiving first configuration information from a core network device, wherein the first configuration information comprises at least one relay mode configured for the UE by the core network device, and the UE is a device having a Proximity Service (Prose) capability.

2. The method of claim 1, wherein the first configuration information further comprises at least one Relay Service Code (RSC), each corresponding to a respective one of the at least one relay mode.

3. The method of claim 2, further comprising:

receiving a first RSC from one or more other UEs; and

determining a relay mode of the other UEs corresponding to the first RSC based on the first configuration information.

4. The method of any of claims 1 to 3, wherein the at least one relay mode comprises at least one of the following: a layer 3-based relay mode, or a layer 2-based relay mode.

5. The method of any of claims 1 to 4, wherein the first configuration information is carried in Prose configuration information; or the first configuration information is carried in UE Route Selection Policy (URSP) configuration information.

6. The method of any of claims 1 to 5, wherein before the receiving the first configuration information from a core network device, the method further comprises:

sending relay capability information to the core network device, wherein the relay capability information comprises one or more relay modes supported by the UE.

7. The method of claim 6, wherein the one or more relay modes supported by the UE comprises at least one of the following: a layer 3-based relay mode, or a layer 2-based relay mode.

8. The method of any of claims 1 to 7, wherein the UE is a UE providing a relay service; or the UE is a UE using the relay service.

9. A method for configuring a relay mode, applied to a core network device and comprising:

sending first configuration information to a User Equipment (UE), wherein the first configuration information comprises at least one relay mode configured for the UE by the core network device, and the UE is a device having a Proximity Service (Prose) capability.

10. The method of claim 9, wherein the first configuration information further comprises at least one Relay Service Code (RSC), each corresponding to a respective one of the at least one relay mode.

11. The method of any of claims 9 to 10, wherein the at least one relay mode comprises at least one of the following: a layer 3-based relay mode, or a layer 2-based relay mode.

12. The method of any of claims 9 to 11, wherein the first configuration information is carried in Prose configuration information; or the first configuration information is carried in UE Route Selection Policy (URSP) configuration information.

13. The method of any of claims 9 to 12, wherein before the sending the first configuration information to the UE, the method further comprises:

receiving relay capability information from the UE, wherein the relay capability information comprises one or more relay modes supported by the UE.

14. The method of claim 13, wherein the one or more relay modes supported by the UE comprises at least one of the following: a layer 3-based relay mode, or a layer 2-based relay mode.

15. The method of any of claims 9 to 14, wherein the UE is a UE providing a relay service; or the UE is a UE using the relay service.

16. The method of any of claims 9 to 15, wherein the core network device configures a same

mapping relationship between relay modes and RSCs for a plurality of UEs.

17. A User Equipment, UE, comprising a processor and a memory storing a computer program, wherein the processor, when executing the computer program, is configured to perform the method of any of claims 1 to 8.

18. A core network device, comprising a processor and a memory storing a computer program, wherein the processor, when executing the computer program, is configured to perform the method of any of claims 9 to 16.

19. A computer-readable storage medium, having a computer program stored thereon, wherein the computer program is configured to be executed by a processor of a User Equipment (UE), to implement the method for configuring a relay mode of any of claims 1 to 8.

20. A computer-readable storage medium, having a computer program stored thereon, wherein the computer program is configured to be executed by a processor of a core network device, to implement the method for configuring a relay mode of any of claims 9 to 16.