CLAIMS

1. A communication method, comprising:

receiving first request information from a terminal device, wherein the first request information comprises first application identification information;

determining second information based on first information obtained from a session management function network element, wherein the second information is an extended mechanisms for DNS client subnet option corresponding to a first identifier or address information of a local domain name system DNS resolver corresponding to a first identifier, wherein the first identifier is a data network access identifier of a data network, in data networks corresponding to a second identifier, with a smallest service scope or closest to the terminal device, and the second identifier is at least one data network access identifier corresponding to a current location of the terminal device; and

sending DNS request information to a central DNS server or the local DNS resolver based on the second information, wherein the DNS request information comprises the first application identification information, and the DNS request information is used to obtain address information of an application server.

2. The method according to claim 1, wherein the method further comprises:

receiving the first information from the session management function network element, wherein the first information comprises the second information.

3. The method according to claim 1, wherein the method further comprises:

receiving the first information from the session management function network element, wherein the first information comprises the first application identification information and the second information corresponding to the first application identification information.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

sending the first application identification information and/or first indication information to the session management function network element, wherein the first application identification information is used to obtain the first information, and the first indication information indicates the session management function network element to send the first information.

5. The method according to any one of claims 1 to 4, wherein the second information is the extended mechanisms for DNS client subnet option, and the sending DNS request information to

a central DNS server or the local DNS resolver based on the second information comprises: sending the DNS request information to the central DNS server, wherein the DNS request information further comprises the second information.

6. The method according to any one of claims 1 to 4, wherein the second information is the address information of the local DNS resolver, and the sending DNS request information to a central DNS server or the local DNS resolver based on the second information comprises: sending the DNS request information to the local DNS resolver.

7. A communication method, comprising:

sending first information to a first entity, wherein the first information comprises second information, or comprises first application identification information and second information corresponding to the first application identification information, the second information is an extended mechanisms for DNS client subnet option corresponding to a first identifier or address information of a local domain name system DNS resolver corresponding to a first identifier, the first identifier is a data network access identifier of a data network with a smallest service scope or closest to a terminal device in data networks corresponding to a second identifier, the second identifier is at least one data network access identifier corresponding to a current location of the terminal device, and the first information is used to determine the second information.

8. The method according to claim 7, wherein the method further comprises:

receiving the first application identification information and/or first indication information from the first entity; and

the sending first information to a first entity comprises:

sending the first information to the first entity based on the first application identification information and/or the first indication information.

9. A communication apparatus, comprising: means for performing the method according to any one of claims 1 to 6.

10. A communication apparatus, comprising: means for performing the method according to any one of claims 7 to 8.

11. A communication system, comprising:

the apparatus according to claim 9 and the apparatus according to claim 10.

12. The communication system according to claim 11, further comprising:

the central DNS server configured to receive the DNS request information.

13. The communication system according to claim 11, further comprising:

the local DNS resolver configured to receive the DNS request information.

14. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program or computer instructions, and when the computer program or the computer instructions are run, the method according to any one of claims 1 to 10 is implemented.

15. A chip, comprising a processor, configured to execute a program stored in a memory, wherein when the program is executed, the chip is enabled to perform the method according to any one of claims 1 to 10.