WHAT IS CLAIMED IS:

1. A method for configuring a network for a dual-mode internet of things (IoT) device, performed by an application (APP) terminal, comprising:

establishing a bluetooth low energy (BLE) connection with a target IoT device;

sending a session key request message to the target IoT device in one or more packets according to a preset communication data protocol and a packetizing protocol, a data structure of the communication data protocol comprising: an operation code, a function point identifier (ID), and function point data;

receiving a session key returned by the target IoT device;

generating encrypted network configuration information based on the session key; and

sending the encrypted network configuration information to the target IoT device, wherein the encrypted network configuration information is used for the target IoT device to perform network configuration binding.

2. The method of claim 1, wherein generating the encrypted network configuration information based on the session key, comprises:

sending a request for network configuration binding token information to a server;

receiving the network configuration binding token information fed back by the server; and

encrypting the network configuration binding token information, a pre-determined service set identifier (SSID) and a connection password of a router according to the session key, to generate the encrypted network configuration information.

3. The method of claim 1, after sending the encrypted network configuration information to the target IoT device, further comprising:

determining that the target IoT device receives the encrypted network configuration information;

querying a server on whether the network configuration binding is successful by polling; and

in response to receiving network configuration binding success information fed back by the server, displaying first information indicating that the network configuration binding is successful.

4. The method of claim 1, before establishing the BLE connection with the target IoT device, further comprising:

searching for a BLE broadcast frame, wherein the BLE broadcast frame carries a device ID, a media access control (MAC), and an APP ID;

in response to detecting the BLE broadcast frame, determining whether the BLE broadcast frame matches the APP terminal according to the APP ID;

in response to determining that the BLE broadcast frame matches the APP terminal, querying the server on detailed information of a corresponding device according to the device ID, wherein the detailed information at least comprises an initialization key;

displaying a list of alternative devices based on the detailed information; and

determining an IoT device in the list of alternative devices as the target IoT device according to a selection input of a user.

5. The method of claim 4, further comprising:

in response to determining that the BLE broadcast frame does not match the APP terminal according to the APP ID or in response to not obtaining the detailed information, discarding the BLE broadcast frame; and

in response to determining that the list of alternative devices is not displayed within a first preset duration, displaying second information indicating a search failure.

6. The method of claim 4, before searching for the BLE broadcast frame, further comprising:

determining an SSID and a connection password of a router to be connected according to a user input.

7. The method of claim 1, after sending the session key request message to the target IoT device in one or more packets according to the communication data protocol and the packetizing protocol, further comprising:

in response to receiving initialization key verification failure information returned by the target IoT device, displaying third information indicating a network configuration failure.

8. The method of claim 3, after querying the server on whether the network configuration binding is successful by polling, further comprising:

in response to not obtaining result information related to the target IoT device by polling within a second preset duration, displaying fourth information indicating a network configuration binding failure.

9. A method for configuring a network for a dual-mode internet of things (IoT) device, performed by an IoT device, comprising:

establishing a bluetooth low energy (BLE) connection with an application (APP) terminal;

receiving a session key request message sent in one or more packets by the APP terminal

according to a preset communication data protocol and a packetizing protocol;

assembling the session key request message according to the packetizing protocol, and splitting an assembled message according to the communication data protocol to obtain an initialization key of the IoT device;

verifying the initialization key, and feeding back a session key in response to a successful verification; and

receiving encrypted network configuration information that is encrypted according to the session key and sent by the APP terminal; and

performing network configuration binding according to the encrypted network configuration information.

10. The method of claim 9, wherein performing the network configuration binding according to the encrypted network configuration information, comprises:

decrypting the encrypted network configuration information according to the session key, to obtain network configuration binding token information, a service set identifier (SSID) and a connection password of a router, and sending a reception success signal to the APP terminal;

sending a networking request to the corresponding router according to the SSID and the connection password of the router; and

after successful networking, sending a registration or login request to a server according to the network configuration binding token information.

11. The method of claim 9, before establishing the BLE connection with the APP terminal, further comprising:

entering a network configuration state; and

sending a BLE broadcast frame carrying a device ID, a media access control (MAC), and an APP ID according to a preset format.

12. An application (APP) terminal, comprising:

a first processing module, configured to establish a bluetooth low energy (BLE) connection with a target internet of things (IoT) device;

a second processing module, configured to send a session key request message to the target IoT device in one or more packets according to a preset communication data protocol and a packetizing protocol, a data structure of the communication data protocol comprising: an operation code, a function point identifier (ID), and function point data;

a third processing module, configured to receive a session key returned by the target IoT device, and generate encrypted network configuration information based on the session key; and

a fourth processing module, configured to send the encrypted network configuration information to the target IoT device, wherein the encrypted network configuration information is used for the target IoT device to perform network configuration binding.

13. An IoT device, comprising:

a fifth processing module, configured to establish a bluetooth low energy (BLE)connection with an application (APP)terminal;

a sixth processing module, configured to receive a session key request message sent by the APP terminal according to a preset communication data protocol and a packetizing protocol;

a seventh processing module, configured to assemble the session key request message according to the packetizing protocol, and split the assembled message according to the communication data protocol to obtain an initialization key of the IoT device;

an eighth processing module, configured to verify the initialization key, and feed back a session key in response to a successful verification; and

a ninth processing module, configured to receive encrypted network configuration information that is encrypted according to the session key and sent by the APP terminal, and perform network configuration binding according to the encrypted network configuration information.

14. A computer-readable storage medium having computer programs stored thereon, wherein when the computer programs are executed by a processor, the steps of the method for configuring a network for a dual-mode internet of things (IoT) device applied to an APP terminal of any one of claims 1-8, or the steps of the method for configuring a network for a dual-mode IoT device applied to an IoT device of any one of claims 9-11.