CLAIMS

What is claimed is:

1. A method for managing a device, which is applied to a first device among a plurality of devices comprised in a control layer of an FTTR network, wherein the first device is a control device, the method comprising:

generating a first control instruction corresponding to a first slave device in an access layer of the FTTR network, wherein the first slave device is managed by a first master device in the control layer;

sending the first control instruction to the first master device, so as to cause the first master device to translate the first control instruction into a second control instruction; sending the second control instruction to the first slave device.

2. The method according to claim 1, wherein, before generating the first control instruction, the method further comprises:

acquiring device information of the plurality of devices in the control layer;

electing a control device from the plurality of devices according to a preset election rule based on the device information of each of the devices.

3. The method according to claim 2, wherein, the device information comprises at least one of: a level of the device in the control layer, hardware performance, MAC address, production time, version, serial number and power-on time.

4. The method according to claim 1, wherein, the operation of generating a first control instruction corresponding to a first slave device in an access layer of the FTTR network comprises:

displaying a user interface;

receiving configuration information of the first slave device input externally on the user interface;

generating a first control instruction comprising the configuration information.

5. The method according to claim 1, wherein, the operation of generating a first

control instruction corresponding to a first slave device in an access layer of the FTTR network comprises:

receiving event information of a terminal sent by the first master device, the terminal accessing the first slave device;

determining a configuration decision according to the event information;

generating a first control instruction comprising the configuration decision.

6. The method according to claim 5, wherein, the event information is an away event, and the operation of determining a configuration decision according to the event information comprises:

determining a roaming strategy according to the away event, first neighbor information of the first slave device and second neighbor information of the terminal.

7. The method according to claim 6, wherein the method further comprises:

when the terminal accesses a second slave device, synchronizing access information of the terminal to the second slave device via a second master device in the control layer, so that the terminal accesses the second slave device, the second slave device being managed by the second master device.

8. The method according to claim 6 or 7, wherein, the method further comprises:

receiving an online event of the terminal, the first neighbor information of the first slave device and the second neighbor information of the terminal reported by the first slave device via the first master device, wherein the online event carries access information of the terminal;

recording the access information of the terminal, the first neighbor information of the first slave device and the second neighbor information of the terminal reported by the first slave device;

aging the first neighbor information and the second neighbor information when a reporting duration of the first neighbor information and the second neighbor information reaches a preset duration.

9. A method for managing a device, which is applied to a first master device in a control layer of an FTTR network, the method comprising:

acquiring a first control instruction generated by a control device in the control layer, wherein the first control instruction corresponds to a first slave device in an access layer managed by the first master device;

translating the first control instruction into a second control instruction;

sending the second control instruction to the first slave device.

10. The method according to claim 9, wherein, the method further comprises:

receiving event information of a terminal sent by the first slave device, the terminal accessing the first slave device;

sending the event information to the control device, so that the control device determines a configuration decision according to the event information; generating a first control instruction comprising the configuration decision.

11. The method according to claim 10, wherein, the event information comprises one or more of an away event of the terminal, an online event of the terminal, first neighbor information of the first slave device and second neighbor information of the terminal.

12. The method according to claim 9, wherein the operation of translating the first control instruction into a second control instruction comprises:

converting the first control instruction into a control instruction of a specified protocol, to obtain a second control instruction; or

determining an execution action corresponding to the first control instruction and generating a second control instruction indicating the execution action.

13. A network device, comprising a processor and a machine-readable storage medium having stored therein machine-executable instructions that can be executed by the processor, wherein the machine-executable instructions cause the processor to perform the method according to any one of claims 1-12.

14. A computer-readable storage medium having stored therein a computer program that, when executed by a processor, causes the processor to perform the method according to any one of claims 1-12.

15. A computer program product that, when running on a computer, causes the computer to perform the method according to any one of claims 1-12.