claims:

1. An information transmission method, comprising:

receiving first functional module information, wherein the first functional module information comprises at least one of the following: an index of a functional module, storage location information of the functional module, version information of the functional module, and specific information of the functional module.

2. The method according to claim 1, wherein receiving first functional module information comprises:

sending requirement information to a third node; and

receiving the first functional module information applicable to a first node sent by the third node or a second node.

3. The method according to claim 2, wherein the method further comprises: the requirement information comprises at least one of the following:

location distribution information of the first node;

type information of the first node;

basic information of the first node;

communication configuration information supported by the first node;

a peak transmission rate requirement of a data transmission requirement;

a transmission delay requirement of the data transmission requirement;

a service type of the data transmission requirement;

a transmission time distribution of the data transmission requirement; and

required first functional module information, wherein the required first functional module information comprises at least one of the following: an index of a required functional module, storage location information of the required functional module, version information of the required functional module, and specific information of the functional module;

or, wherein sending requirement information to a third node comprises at least one of the following:

directly sending the requirement information to the third node; and

sending the requirement information to the second node, and sending the requirement

information to the third node through the second node;

or, wherein the method further comprising: implementing communication between the second node and the first node through the functional module of the first node downloaded by the second node from the third node;

or, wherein, the first functional module information applicable to the first node comprises at least one of the following:

an index of at least one functional module applicable to the first node;

storage location information of at least one functional module applicable to the first node;

version information of at least one functional module applicable to the first node; and

specific information of at least one functional module applicable to the first node;

or, wherein the method further comprising:

in a case where the first node determines that the downloaded functional module is not applicable to the first node, sending request information to the second node or the third node to request the functional module applicable to the first node, wherein,

the request information comprises at least one of the following:

the first functional module information required by the first node;

the available first functional module information received by the first node; and

enable time information of the available functional module received by the first node.

4. The method according to claim 2, wherein after receiving the first functional module information applicable to the first node sent by the third node or the second node, the method further comprises:

sending first indication information to the third node or the second node, wherein the first indication information comprises at least one of the following:

first functional module information used by the first node, wherein the first functional module information used by the first node may comprise some or all of the first functional module information applicable to the first node sent by the third node or the second node; and

enable time information of the functional module used by the first node.

5. The method according to claim 4, wherein the method further comprising:

in a case where the second node receives the first indication information, downloading, by the second node, the functional module used by the first node from the third node.

6. The method according to claim 1, wherein after receiving the first functional module information, the method further comprises at least one of the following:

downloading the functional module according to the received first functional module information; and

sending functional module information used by a first node to a third node or a second node, wherein the functional module information used by the first node comprises at least one of the following: version information of the functional module, index information of the functional module, and effective time information of the functional module.

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

sending fourth functional module requirement information to the third node or the second node; and

receiving the functional module information indicated by the fourth functional module requirement information sent by the third node or the second node.

8. An information transmission method, comprising:

sending a functional module update request to a third node or a second node, wherein the functional module update request comprises at least one of the following:

functional module information that needs to be updated; and

requirement information updated by a first node.

9. The method according to claim 8, wherein after sending the functional module update request to the third node or the second node, the method further comprises at least one of the following:

receiving functional module update information sent by the second node or the third node; and

downloading an updated functional module according to the functional module update information.

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

sending indication information that the functional module has been updated to the third node or the second node;

or, wherein the downloading an updated functional module according to the functional module update information comprises at least one of the following:

directly downloading the updated functional module according to the functional module update

information;

updating the functional module according to the functional module update information, and deleting a legacy functional module that implements the same function as the updated functional module; and

in a case that the local storage space of the first node is insufficient to download the updated module, deleting some other modules in the local storage space first, and after the first node completes the update of the functional module, determining, according to the local storage space, whether to download the updated functional module according to the functional module update information.

11. The method according to claim 8, wherein after sending the functional module update request to the third node or the second node, the method further comprises:

receiving some updated functional modules sent by the third node; and

after some updated functional modules are downloaded, communicating with the second node according to some updated functional modules, and continuing to download the functional module in the updated functional modules other than some updated functional modules.

12. The method according to claim 1, wherein the method further comprising:

sending second functional module information, wherein the second functional module information comprises at least one of the following: update information relative to a reference functional module, and reference functional module information;

wherein the reference functional module information comprises at least one of the following: index information of the reference functional module, version information of the reference functional module, and storage location information of the reference functional module.

13. The method according to claim 12, wherein the reference functional module is a functional module stored in a third node or a second node; or, the reference functional module is a functional module sent by a first node to the third node or the second node.

14. The method according to claim 13, wherein the first node is a first-type terminal, and the first-type terminal comprises at least one of the following:

a terminal registered, authorized, or authenticated in the third node or the second node; and

a terminal that is allowed to send the functional module information by the third node or the second node.

15. The method according to claim 12, wherein after sending the second functional module information, the method further comprises:

after the third node or the second node acquires the functional module according to the functional module information, storing or updating, by the third node or the second node, the functional module locally.

16. An information transmission method, comprising:

sending, by a first node, at least one piece of third functional module information, wherein the third functional module information comprises at least one of the following:

a function implemented by a functional module;

input information required by the functional module;

output information of the functional module; and

information on whether the functional module is enabled.

17. The method according to claim 16, wherein the first node converts the functional module in a non-enabled state to an enabled state when a first condition is satisfied, and the first condition comprises at least one of the following:

information sent by the third node or the second node for requesting the terminal to enable the functional module is received; and

the functional module information sent by the first node comprises a condition enabling the functional module, and the current moment satisfies the enabling condition.

18. The method according to claim 16, wherein the at least one piece of the functional module information sent by the first node corresponds to some of the functional modules supported by the first node.

19. The method according to claim 18, wherein the first node sends the functional module information to a third node or a second node when a second condition is satisfied, wherein the second condition comprises at least one of the following:

request information sent by the third node or the second node is received, and the first node has a functional module that satisfies the requirement of the request information in the functional modules not sent to the third node or the second node.

20. An electronic apparatus, comprising a memory and a processor, wherein the memory stores a

computer program, and the processor is configured to execute the computer program to perform the method according to any one of claims 1 to 7, or the method according to any one of claims 8 to 11, or the method according to any one of claims 12 to 15, or the method according to any one of claims 16 to 19.