CLAIMS

~~What is claimed is:~~

1. A communication method, comprising:

receiving a request message from a service request network element, wherein the request message is used to request information about a target data analytics network element, the request message comprises a first analytics identifier and information about a first service, and the target data analytics network element supports an analytics type corresponding to the first analytics identifier and the first service;

determining the target data analytics network element based on the first analytics identifier, the information about the first service, and association information between the first analytics identifier and the first service that corresponds to the target data analytics network element; and

sending information about the target data analytics network element to the service request network element.

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

~~receiving association information between the first analytics identifier and a second service that corresponds to the target data analytics network element and that is sent by the target data analytics network element.~~

~~3. The communication method according to claim 2, wherein the second service comprises a plurality of services, the first analytics identifier supports the plurality of services, and the plurality of services comprise the first service.~~

~~4. The communication method according to claim 3, wherein the determining the target data analytics network element based on the first analytics identifier, the information about the first service, and association information between the first analytics identifier and the first service that corresponds to the target data analytics network element comprises:~~

~~determining a candidate data analytics network element based on the first analytics identifier, wherein the candidate data analytics network element supports the analytics type corresponding to the first analytics identifier; and~~

~~determining the target data analytics network element from the candidate data analytics network element based on the information about the first service and the association information between the first analytics identifier and the first service that corresponds to the target data~~

~~analytics network element.~~

~~5~~2. The communication method according to claim 1, wherein the method further comprises:

receiving association information between a second analytics identifier and the first service that corresponds to the target data analytics network element and that is sent by the target data analytics network element.

~~6~~3. The communication method according to claim ~~5~~2, wherein the second analytics identifier comprises a plurality of analytics identities, the first service supports the plurality of analytics identities, and the plurality of analytics identities comprises the first analytics identifier.

~~7~~4. The communication method according to claim ~~6~~3, wherein the determining the target data analytics network element based on the first analytics identifier, the information about the first service, and association information between the first analytics identifier and the first service that corresponds to the target data analytics network element comprises:

determining a candidate data analytics network element based on the information about the first service, wherein the candidate data analytics network element supports the first service; and

determining the target data analytics network element from the candidate data analytics network element based on the first analytics identifier and the association information between the first analytics identifier and the first service that corresponds to the target data analytics network element.

~~8. The communication method according to any one of claims 1 to 7, wherein the request information further comprises network element type information of the service request network element; and~~

~~before the determining the target data analytics network element based on the first analytics identifier, the information about the first service, and association information between the first analytics identifier and the first service that corresponds to the target data analytics network element, the method further comprises:~~

~~determining that the service request network element is a data analytics network element based on the network element type information of the service request network element.~~

~~9~~5. The communication method according to any one of claims 1 to ~~8~~4, wherein the request information further comprises information indicating an association relationship between the first analytics identifier and the information about the first service.

~~10~~6. The communication method according to any one of claims 1 to ~~9~~5, wherein the first

service comprises at least one of the following services: a model request service, a model subscription service, a data repository request service, and a data collection coordination service.

7~~11~~. The communication method according to any one of claims 1 to ~~10~~6, wherein the information about the target data analytics network element comprises address information of the target data analytics network element, and the address information of the target data analytics network element comprises one or more of the following information:

an identifier of a data analytics network element, an internet protocol address, a fully qualified domain name, and a uniform resource locator.

~~12~~8. A communication method, comprising:

sending, by a service request network element, a request message to a network repository function network element, wherein the request message is used to request information about a target data analytics network element, the request message comprises a first analytics identifier and information about a first service, and the target data analytics network element supports an analytics type corresponding to the first analytics identifier and the first service; and

receiving, by the service request network element, the information about the target data analytics network element from the network repository function network element.

~~13~~9. A communication apparatus, comprising:

a receiving unit, configured to receive a request message from a service request network element, wherein the request message is used to request information about a target data analytics network element, the request message comprises a first analytics identifier and information about a first service, and the target data analytics network element supports an analytics type corresponding to the first analytics identifier and the first service;

a processing unit, configured to determine the target data analytics network element based on the first analytics identifier, the information about the first service, and association information between the first analytics identifier and the first service that corresponds to the target data analytics network element; and

a sending unit, configured to send the information about the target data analytics network element to the service request network element.

~~14. The communication apparatus according to claim 13, wherein~~

~~the receiving unit is further configured to receive association information between the first analytics identifier and a second service that corresponds to the target data analytics network~~

~~element and that is sent by the target data analytics network element.~~

~~15. The communication apparatus according to claim 14, wherein the second service comprises a plurality of services, the first analytics identifier supports the plurality of services, and the plurality of services comprise the first service; and~~

~~that the processing unit determines the target data analytics network element based on the first analytics identifier, the information about the first service, and the association information between the first analytics identifier and the first service that corresponds to the target data analytics network element comprises:~~

~~the processing unit determines a candidate data analytics network element based on the first analytics identifier, wherein the candidate data analytics network element supports the analytics type corresponding to the first analytics identifier; and~~

~~the processing unit determines the target data analytics network element from the candidate data analytics network element based on the information about the first service and the association information between the first analytics identifier and the first service that corresponds to the target data analytics network element.~~

1~~6~~0. The communication apparatus according to claim ~~13~~9, wherein the receiving unit is further configured to receive association information between a second analytics identifier and the first service that corresponds to the target data analytics network element and that is sent by the target data analytics network element.

~~17~~11. The communication apparatus according to claim ~~16~~10, wherein the second analytics identifier comprises a plurality of analytics identifiers, the first service supports the plurality of analytics identifiers, and the plurality of analytics identifiers comprise the first analytics identifier~~; and~~

~~that the processing unit determines the target data analytics network element based on the first analytics identifier, the information about the first service, and the association information between the first analytics identifier and the first service that corresponds to the target data analytics network element comprises:~~

~~the processing unit determines a candidate data analytics network element based on the information about the first service, wherein the candidate data analytics network element supports the first service; and~~

~~the processing unit determines the target data analytics network element from the candidate~~

~~data analytics network element based on the first analytics identifier and the association information between the first analytics identifier and the first service that corresponds to the target data analytics network element~~.

~~18. The communication apparatus according to any one of claims 13 to 17, wherein the request information received by the receiving unit further comprises network element type information of the service request network element; and~~

~~before the processing unit determines the target data analytics network element based on the first analytics identifier, the information about the first service, and the association information between the first analytics identifier and the first service that corresponds to the target data analytics network element, the processing unit is further configured to determine that the service request network element is a data analytics network element based on the network element type information of the service request network element.~~

1~~9~~2. The communication apparatus according to any one of claims ~~13~~ 9 to ~~18~~11, wherein the receiving unit is further configured to receive information indicating an association relationship between the first analytics identifier and the information about the first service.

~~20~~13. The communication apparatus according to any one of claims ~~13~~ 9 to ~~19~~12, wherein the first service comprises at least one of the following services: a model request service, a model subscription service, a data repository request service, and a data collection coordination service.

~~21~~14. A communication apparatus, comprising:

a sending unit, configured to send, by a service request network element, a request message to a network repository function network element, wherein the request message is used to request information about a target data analytics network element, the request message comprises a first analytics identifier and information about a first service, and the target data analytics network element supports an analytics type corresponding to the first analytics identifier and the first service; and

a receiving unit, configured to receive, by the service request network element, the information about the target data analytics network element from the network repository function network element.

~~22~~15. A computer-readable ~~storage~~ medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run,

an apparatus is enabled to perform the method according to any one of claims 1 to ~~11~~7, or

an apparatus is enabled to perform the method according to claim ~~12~~8.

~~23~~16. A chip system, comprising a processor, configured to invoke a computer program from a memory and run the computer program,

to enable a communication apparatus on which the chip system is installed to perform the method according to any one of claims 1 to ~~11~~7; or

to enable a communication apparatus on which the chip system is installed to perform the method according to claim ~~12~~8.

~~24~~17. A communication apparatus, comprising:

a memory, configured to store a computer program; and

a processor, configured to execute the computer program stored in the memory, to enable the communication apparatus to perform the communication method according to any one of claims 1 to ~~11~~7, or to enable the communication apparatus to perform the communication method according to claim ~~12~~8.

~~25~~18. A communication system, comprising:

a network repository function network element, configured to perform the method according to any one of claims 1 to ~~11~~7; and

a service request network element, configured to send a request message to the network repository function network element, wherein the request message is used to request information about a target data analytics network element, the request message comprises a first analytics identifier and information about a first service, and the target data analytics network element supports an analytics type corresponding to the first analytics identifier and the first service.