CLAIMS

1. A method for processing service data, wherein service data comprises data representing a transaction for transferring a service object from a source address to a destination address, the method comprising:

selecting (402), by a server, a predetermined number of node identifiers from multiple node identifiers included in a plurality of service processing requests, wherein the plurality of service processing requests notify the server of respective service data processing requirements and include node identifiers that identify corresponding blockchain nodes in a blockchain network;

sending (403), from the server and to a second blockchain node, feedback information comprising the predetermined number of node identifiers, wherein the feedback information mixes data associated with the predetermined number of node identifiers based on information equivalence;

receiving, at the second blockchain node and from the server, the feedback information;

determining, by the second blockchain node, a predetermined number of first blockchain nodes based on the predetermined number of node identifiers comprised in the feedback information;

receiving (202), at a second blockchain node, respective first service data sent by each first blockchain node, wherein first service data received from each respective first blockchain node comprises a respective first source address and a respective first destination address;

generating (204), by the second blockchain node, second service data based on the first service data received from each first blockchain node, wherein the second service data comprises a second source address and a second destination address, the second source address comprising first source addresses, and the second destination address comprising first destination addresses;

sending (206), by the second blockchain node, the second service data to each of the first blockchain nodes, wherein each first blockchain node checks corresponding first service data included in the second service data; and

processing (208), by the second blockchain node, the second service data when acknowledgement information sent by each of the first blockchain nodes is received.

2. The method according to claim 1, wherein selecting, by the server, the predetermined number of node identifiers from the multiple node identifiers included in the plurality of service processing requests comprises selecting, by analyzing service data stored in the blockchain network, node identifiers with a lack of service association among the corresponding blockchain nodes that correspond to selected node identifiers and a lack of service association among service data that corresponds to the corresponding blockchain nodes.

3. The method according to claim 1, wherein the server determines the second blockchain node.

4. The method according to any one of claims 1 to 3, wherein the second blockchain node is a blockchain node included in the predetermined number of first blockchain nodes.

5. The method according to claim 1, wherein processing the second service data comprises:

sending the second service data to a consensus node in a blockchain network, wherein the consensus node performs consensus processing on the second service data; and

if the second service data is verified, storing the second service data in the blockchain network.

6. The method according to claim 1, wherein

the method further comprises sending the plurality of service processing request to the server, comprising, for each service processing request:

adding, by a blockchain node, quantity information to the service processing request and

sending the service processing request from the blockchain node and to the server; and

selecting, by the server, the predetermined number of node identifiers from a plurality of node identifiers included in the plurality of service processing requests comprises selecting blockchain nodes that satisfy the quantity information from a plurality of blockchain nodes that send the plurality of service processing requests.

7. The method according to any one of claims 1 to 6, wherein:

the method further comprises sending, from the second blockchain node, third service data to one or more of the first blockchain nodes, and

generating, by the second blockchain node, second service data based on the first service data comprises creating the second service data based on the first service data and the third service data.

8. The method according to claim 7, wherein sending the third service data to one or more of the first blockchain nodes comprises sending encrypted third service data to the one or more first blockchain nodes.

9. The method according to claim 1, wherein the second blockchain node is independent from the first blockchain nodes.

10. The method according to claim 1, wherein the second blockchain node is associated with a service data processing procedure.

11. The method according to claim 1, wherein the first blockchain nodes are determined based on a random selection.

12. A device for processing service data, the device comprising a plurality of modules configured to perform the method according to any one of the previous claims.