

CLAIMS

1. A method for data storage, the method comprising:

receiving, by a blockchain node, a service request for the blockchain node to write to a blockchain;

determining a service type and identification information corresponding to the service request;

parsing the service request to obtain each data type and service data corresponding to each data type;

converting, by the blockchain node, based on a predetermined data format, each data type in the service request and the service data corresponding to each data type to obtain a data sequence, wherein a data field is specified in the predetermined data format, wherein the data field indicates a mapping relationship between each data type and each piece of service data in the service request, and each data type is equivalent to a key, the service data corresponding to each data type is equivalent to a value, and the data field is a key-value data mapping set;

performing a consensus procedure on the service request by using a consensus network;

storing, by the blockchain node, the data sequence in the blockchain after a consensus is achieved on the service request;

converting, by the blockchain node, based on a predetermined statement format, each data type, the service data corresponding to each data type, the service type, and the identification information to obtain a data storage statement; and

storing, by the blockchain node, based on the mapping relationship between each data type and each piece of service data, the service data that is obtained through parsing in a database corresponding to the blockchain node by executing the data storage statement after the consensus is achieved on the service request.

2. The method according to claim 1, wherein the predetermined statement format comprises an identification information field and a service type field.

3. The method according to claim 1, wherein storing the service data that is obtained through parsing in the database by executing the data storage statement comprises:

creating, based on at least one of the service type or the identification information, a database corresponding to the at least one of service type or the identification information in response to determining, by executing the data storage statement, that no database that matches the at least one of service type or the identification information is identified; and
storing the service data that is obtained through parsing in the created database.

4. The method according to claim 1, wherein storing the service data that is obtained through parsing in the database comprises:

creating each data type that is obtained by parsing the data sequence in the database in response to determining that the database does not comprise the data type; and
storing service data corresponding to the data type in the database.

5. The method according to claim 1, further comprising:

receiving a service data query request to query a piece of service data stored in the database corresponding to the blockchain node.

6. The method according to claim 5, further comprising:

determining, based on the service data query request, a data type corresponding to the piece of service data to be queried, wherein determining the data type comprises determining an index field included in the service data query request.

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

querying the piece of service data that matches the data type from the database corresponding to the blockchain node.

8. The method according to claim 1, wherein the identification information comprises a user public key or a user identity.

9. A device for data storage, the device comprising a plurality of modules configured to perform the method of any one of claims 1 to 8.