

CLAIMS

1. A method comprising:

receiving a transaction request from a first node, the transaction request comprising transaction data;

determining, based on the transaction data, a blockchain network corresponding to the transaction request from a plurality of blockchain networks, wherein the first node is excluded from a consensus process associated with the determined blockchain network; and

forwarding the transaction request to the determined blockchain network.

2. The method of Claim 1, further comprising:

receiving, from the determined blockchain network, a block generated based on consensus validation on the transaction request; and

forwarding the block to the first node.

3. The method of Claim 1, wherein:

the determined blockchain network comprises a consortium blockchain network;

the consortium blockchain network comprises a plurality of nodes; and

the first node is not among the plurality of nodes of the consortium blockchain.

4. The method of Claim 1, further comprising:

performing, by the determined blockchain network, the consensus validation on the transaction request;

generating, by the determined blockchain network, the block associated with the transaction request; and

adding, by the determined blockchain network, the generated block to a blockchain associated with the determined blockchain network.

5. The method of Claim 1, further comprising:

storing, by the first node, information associated with the block to a public blockchain.

6. The method of Claim 1, further comprising:

receiving a transaction digest corresponding to the block from the determined

blockchain network; and

forwarding the transaction digest to the first node.

7. The method of Claim 6, further comprising:

storing, by the first node, information associated with the transaction digest to a public blockchain.

8. The method of Claim 1, further comprising:

receiving a search request for transaction data from the first node;

determining a search permission associated with the first node based on the search request;

obtaining, from the determined blockchain network, transaction data corresponding to the search permission; and

sending the obtained transaction data to the first node.

9. The method of Claim 8, wherein the determining a search permission associated with the first node comprises:

determining a type of the first node; and

assigning the search permission to the first node based on the determined type.

10. The method of Claim 8, wherein the search permission associated with the first node comprises:

permission to access transaction data associated with the first node;

permission to access transaction data associated with a plurality of second nodes, wherein the second nodes respectively correspond to a plurality of users of an entity corresponding to the first node; or

permission to access all transaction data associated with the determined blockchain network.

11. A system comprising a processor and a non-transitory computer-readable storage medium storing instructions executable by the processor to cause the system to perform operations comprising:

receiving a transaction request from a first node, the transaction request comprising transaction data;

determining, based on the transaction data, a blockchain network corresponding to the transaction request from a plurality of blockchain networks, wherein the first node is excluded from a consensus process associated with the determined blockchain network; and forwarding the transaction request to the determined blockchain network.

12. The system of Claim 11, wherein the operations further comprise:

receiving, from the determined blockchain network, a block generated based on consensus validation on the transaction request; and forwarding the block to the first node.

13. The system of Claim 11, wherein:

the determined blockchain network comprises a consortium blockchain network;
the consortium blockchain network comprises a plurality of nodes; and
the first node is not among the plurality of nodes of the consortium blockchain.

14. The system of Claim 11, wherein the operations further comprise:

performing, by the determined blockchain network, the consensus validation on the transaction request;
generating, by the determined blockchain network, the block associated with the transaction request; and
adding, by the determined blockchain network, the generated block to a blockchain associated with the determined blockchain network.

15. The system of Claim 11, wherein the operations further comprise:

storing, by the first node, information associated with the block to a public blockchain.

16. The system of Claim 11, wherein the operations further comprise:

receiving a transaction digest corresponding to the block from the determined blockchain network; and
forwarding the transaction digest to the first node.

17. The system of Claim 16, wherein the operations further comprise:
storing, by the first node, information associated with the transaction digest to a public blockchain.

18. The system of Claim 11, wherein the operations further comprise:
receiving a search request for transaction data from the first node;
determining a search permission associated with the first node based on the search request;
obtaining, from the determined blockchain network, transaction data corresponding to the search permission; and
sending the obtained transaction data to the first node.

19. The system of Claim 18, wherein the determining a search permission associated with the first node comprises:
determining a type of the first node; and
assigning the search permission to the first node based on the determined type.

20. A non-transitory computer-readable storage medium, configured with instructions executable by one or more processors to cause the one or more processors to perform operations comprising:
receiving a transaction request from a first node, the transaction request comprising transaction data;
determining, based on the transaction data, a blockchain network corresponding to the transaction request from a plurality of blockchain networks, wherein the first node is excluded from a consensus process associated with the determined blockchain network; and
forwarding the transaction request to the determined blockchain network.