CLAIMS

1. A computer-implemented method, comprising:

generating, by a first blockchain node in a first blockchain, a subscription request to a cross-chain interaction end between the first blockchain and a second blockchain;

obtaining, by a second blockchain node, a message from the second blockchain based on the subscription request, the message being published in the second blockchain and satisfying subscription conditions of the second blockchain node; and

performing, by the second blockchain node, an operation related to the obtained message,

wherein the subscription request indicates the subscription conditions to the cross-chain interaction end, so that the cross-chain interaction end obtains and adds the message to a message queue maintained by a subscription client corresponding to the second blockchain node.

2. The computer-implemented method of claim 1, wherein the first blockchain node of the first blockchain corresponds to a subscription client.

3. The computer-implemented method of claim 2, further comprising:

maintaining, by the subscription client, a queue status of the message queue.

4. The computer-implemented method of claim 3, wherein obtaining the message comprises:

sending, by the subscription client, the queue status to the cross-chain interaction end, so that the cross-chain interaction end obtains a message that is published in the second blockchain and satisfies the subscription conditions when the cross-chain interaction end determines, based on the queue status, that the message queue does not comprise a message satisfying the subscription conditions.

5. The computer-implemented method of claim 1, wherein the subscription conditions comprise a one-to-one mapping relationship between subscription clients and blockchain nodes.

6. The computer-implemented method of claim 1, wherein performing, by the second

blockchain node, an operation related to the obtained message comprises:

initiating, by the second blockchain node, a contract operation related to the obtained message.

7. The computer-implemented method of claim 1, wherein the second blockchain corresponds to a publishing client.

8. A non-transitory, computer-readable medium storing one or more instructions executable by a computer system to perform operations comprising:

generating, by a first blockchain node in a first blockchain, a subscription request to a cross-chain interaction end between the first blockchain and a second blockchain;

obtaining, by a second blockchain node, a message from the second blockchain based on the subscription request, the message being published in the second blockchain and satisfying subscription conditions of the second blockchain node; and

performing, by the second blockchain node, an operation related to the obtained message,

wherein the subscription request indicates the subscription conditions to the cross-chain interaction end, so that the cross-chain interaction end obtains and adds the message to a message queue maintained by a subscription client corresponding to the second blockchain node.

9. The non-transitory, computer-readable medium of claim 8, wherein the first blockchain node of the first blockchain corresponds to a subscription client.

10. The non-transitory, computer-readable medium of claim 9, the operations further comprising:

maintaining, by the subscription client, a queue status of the message queue; and

wherein obtaining the message comprises:

sending, by the subscription client, the queue status to the cross-chain interaction end, so that the cross-chain interaction end obtains a message that is published in the second blockchain and satisfies the subscription conditions when the cross-chain interaction end determines, based on the queue status, that the message queue does not comprise a message satisfying the subscription conditions.

11. The non-transitory, computer-readable medium of claim 8, wherein performing, by the second blockchain node, an operation related to the obtained message comprises:

initiating, by the second blockchain node, a contract operation related to the obtained message.

12. The non-transitory, computer-readable medium of claim 8, wherein the subscription conditions comprise a one-to-one mapping relationship between subscription clients and blockchain nodes.

13. The non-transitory, computer-readable medium of claim 8, wherein the second blockchain corresponds to a publishing client.

14. A computer-implemented system, comprising:

one or more computers; and

one or more computer memory devices interoperably coupled with the one or more computers and having tangible, non-transitory, machine-readable media storing one or more instructions that, when executed by the one or more computers, perform one or more operations comprising:

generating, by a first blockchain node in a first blockchain, a subscription request to a cross-chain interaction end between the first blockchain and a second blockchain;

obtaining, by a second blockchain node, a message from the second blockchain based on the subscription request, the message being published in the second blockchain and satisfying subscription conditions of the second blockchain node; and

performing, by the second blockchain node, an operation related to the obtained message,

wherein the subscription request indicates the subscription conditions to the cross-chain interaction end, so that the cross-chain interaction end obtains and adds the message to a message queue maintained by a subscription client corresponding to the second blockchain node.

15. The computer-implemented system of claim 14, wherein the first blockchain node of the first blockchain corresponds to a subscription client.

16. The computer-implemented system of claim 14, the operations further comprising:

maintaining, by the subscription client, a queue status of the message queue; and

wherein obtaining the message comprises:

sending, by the subscription client, the queue status to the cross-chain interaction end, so that the cross-chain interaction end obtains a message that is published in the second blockchain and satisfies the subscription conditions when the cross-chain interaction end determines, based on the queue status, that the message queue does not comprise a message satisfying the subscription conditions.

17. The computer-implemented system of claim 14, wherein performing, by the second blockchain node, an operation related to the obtained message comprises operations of:

initiating, by the second blockchain node, a contract operation related to the obtained message.

18. The computer-implemented system of claim 14, wherein the second blockchain corresponds to a publishing client.

19. The computer-implemented system of claim 14, wherein the subscription conditions comprise a one-to-one mapping relationship between subscription clients and blockchain nodes.