CLAIMS

1. A business processing method, comprising:

receiving, by a first block chain node, business information sent by a user;

generating a corresponding business request according to the business information, the business request comprising a first smart contract generated according to the business information;

sending the business request to a consensus network, such that a third block chain node in the consensus network obtains a corresponding business result according to the business request, and

executing a first designated operation by triggering the first smart contract when it is determined that a second block chain node in the consensus network verifies the business result as legal comprising:

acquiring, by the second block chain node from the consensus network, business feedback information sent by the third block chain node;

acquiring the business result from the third block chain node according to the business feedback information, the business result being generated by the third block chain node according to the business request sent by the first block chain node to the consensus network; and

when the business result is verified as legal, enabling the first block chain node to execute the first designated operation by triggering the first smart contract, wherein the step of enabling the first block chain node to execute the first designated operation by triggering the first smart contract specifically comprises:

signing on the business feedback information to generate a signature;

the signature being used for enabling a second smart contract comprised in the business feedback information to change its own state from a verification pending state to a verification successful state, the second smart contract being obtained by the third block chain node according to the business request; and

the second smart contract in the verification successful state being used for enabling the second smart contract to trigger the first block chain node to execute the first designated operation by using the first smart contract.

2. The method of claim 1, wherein the step of generating the first smart contract according to

the business information specifically comprises:

compiling the business information by using a preset SOLC compiler to obtain the first smart contract.

3. The method of claim 1 or 2, wherein the step of generating the corresponding business request according to the business information specifically comprises:

generating a business request comprising the first smart contract and an account address of the user according to the business information;

the first designated operation being used for transferring a first set quantity of designated resources in the account address of the user to an account address of the third block chain node, optionally wherein after the step of sending the business request to the consensus network, the method further comprises:

freezing the first set quantity of designated resources in the account address of the user by using the first smart contract when it is determined that the second block chain node verifies the business request as legal.

4. The method of claim 1, wherein the step of sending the business request to the consensus network specifically comprises:

sending the business request comprising the first smart contract in a check pending state to the consensus network.

5. The method of claim 1, wherein after the step of sending the business request to the consensus network, the method further comprises:

receiving a query message, sent by the third block chain node, for processing the business request; and

granting an access permission to the third block chain node when it is determined that the business request is processed by the third block chain node, such that the third block chain node acquires the business information from the first block chain node, and obtains the business result according to the business information.

6. The method of claim 1, wherein the step of sending the business request to the consensus

network specifically comprises:

sending the business request to block chain nodes in the consensus network to establish a consensus; and

the method further comprises:

writing the business request into a block chain of the first block chain node after it is determined that the block chain nodes in the consensus network establish a consensus about the business request.

7. The method of claim 1, wherein the method further comprises:

acquiring the business result from the third block chain node or the second block chain node when it is determined that the second block chain node verifies the business result as legal.

8. The method of any one of the preceding claims, wherein the method further comprises:

instructing block chain nodes in the consensus network to establish a consensus about the business feedback information when the business result is verified as legal, and writing the business feedback information into a block chain of the second block chain node when it is determined that the consensus about the business feedback information is established.

9. The method of any one of the preceding claims, wherein the method further comprises:

refusing to sign on the business feedback information when the business result is verified as illegal; and

the refusing to sign being used for enabling the third block chain node to execute a second designated operation by triggering the second smart contract.

10. The method of any one of claims 8 to 9, wherein before the step of acquiring, by the second block chain node from the consensus network, business feedback information sent by the third block chain node, the method further comprises:

acquiring a business request sent by the first block chain node to the consensus network, the business request comprising the first smart contract in a check pending state;

acquiring, according to the business request, business information corresponding to the business request from the first block chain node;

verifying whether the business information is legal; and

if yes, signing on the business request to trigger the first smart contract to change from the check pending state to an acceptance pending state; the first smart contract in the acceptance pending state being used for enabling the first block chain node to freeze a first set quantity of designated resources in an account address of the user by using the first smart contract; or

if no, refusing to sign on the business request, such that the first block chain node determines that the business request is failed to be accepted,

wherein the method further comprises:

instructing the block chain nodes in the consensus network to establish a consensus about the business request when the business information is verified as legal, and writing the business request into a block chain of the second block chain node after it is determined that the consensus about the business request is established.

11. The method of any one of the preceding claims, further comprising:

acquiring, by the third block chain node, the business request sent by the first block chain node by using the consensus network, the business request comprising the first smart contract generated by the first block chain node according to business information sent by the user (S208);

obtaining the business result and business feedback information according to the business request (S209); and

sending the business feedback information to the consensus network (S211), such that the second block chain node in the consensus network acquires the business result from the third block chain node according to the business feedback information (S213), and when the business result is verified as legal, enabling the first block chain node to execute the first designated operation by triggering the first smart contract (S215).

12. The method of claim 11 wherein the step of acquiring, by the third block chain node, the business request sent by the first block chain node by using the consensus network specifically comprises:

gaining the business request comprising the first smart contract in an acceptance pending state.

13. The method of claim 11, wherein the first designated operation is used for enabling the first block chain node to transfer a first set quantity of designated resources in an account address of the user comprised in the business request to an account address of the third block chain node;

the step of obtaining a business result according to the business request specifically comprises:

obtaining a second smart contract and the business result according to the business request;

the step of obtaining business feedback information according to the business request specifically comprises:

generating, according to the business result, the business feedback information comprising the second smart contract, abstract information of the business result, and the account address of the third block chain node, wherein the step of obtaining the second smart contract according to the business request specifically comprises:

determining a business level and a business type of the business request; and

determining the second smart contract according to the business level, the business type, and the first smart contract.

14. The method of claim 11, wherein the step of obtaining a business result and business feedback information according to the business request specifically comprises:

sending, according to the business request, a query message for processing the business request to the first block chain node;

acquiring an access permission from the first block chain node when a feedback message is received, the feedback message being returned by the first block chain node and allowing the third block chain node to process the business request;

acquiring, from the first block chain node, business information corresponding to the business request according to the business request and the access permission; and

obtaining the business result and business feedback information according to the business information, wherein the step of obtaining a second smart contract according to the business request specifically comprises:

compiling the business information by using a preset SOLC compiler to obtain the second smart contract.

15. The method of claim 13, wherein the step of sending the business feedback information to the consensus network specifically comprises:

sending the business feedback information to the consensus network, and freezing a second set quantity of designated resources in the account address of the third block chain node by triggering the second smart contract.

16. The method of any one of claims 11 to 15, wherein the step of sending the business feedback information to the consensus network specifically comprises:

sending the business feedback information to block chain nodes in the consensus network to establish a consensus, and writing the business feedback information into a block chain of the third block chain node when it is determined that the consensus about the business feedback information is established by the block chain nodes in the consensus network.

17. The method according to claim 11 or 13, wherein the method further comprises:

executing a second designated operation by triggering the second smart contract when it is determined that the second block chain node verifies the business feedback information as illegal,

wherein the second designated operation is used for transferring, by the third block chain node, a second set quantity of designated resources in the account address of the third block chain node to the account address of the user comprised in the business request.

18. A business processing apparatus, comprising:

a plurality of modules, each module configured to perform steps in the method of any one of claims 1 to 17.