CLAIMS

1. A computer-implemented supply chain method comprising:

performing, by a core node of a blockchain, a back-end blockchain data processing service entrusted to the core node by a light node of the blockchain, wherein the back-end blockchain data processing service comprises one or more of blockchain consensus calculation, blockchain ledger backup, or blockchain transaction verification;

obtaining, by the core node, from a ledger of the blockchain, a first blockchain transaction published to the ledger by the light node, the first blockchain transaction associated with financing between an entity associated with the light node and an entity associated with the core node;

obtaining, by the core node, from the ledger, a second blockchain transaction published to the ledger by the light node when the light node joins the blockchain, the second blockchain transaction specifying a type of the back-end blockchain data processing service entrusted to the core node by the light node;

determining, based on the second blockchain transaction, the type of the back-end blockchain data processing service entrusted to the core node by the light node;

calculating, by the core node, one or more financial parameters of the financing based on account receivable information included in the first blockchain transaction;

calculating, by the core node, an entrusting fee based on the type of the back-end blockchain data processing service entrusted to the core node by the light node, to compensate the entity associated with the core node for performing the back-end blockchain data processing service;

adjusting, by the core node, a first financial parameter of the one or more financial parameters of the financing to account for the entrusting fee; and

publishing, by the core node, to the ledger, a financing management smart contract specifying the one or more financial parameters, including the adjusted first financial parameter,

wherein the financing management smart contract is invocable by the light node to complete a management operation of the financing.

2. The computer-implemented method of claim 1, wherein the first blockchain transaction comprises an indication by the light node that the adjusted first financial parameter should be a repayment period of the financing, and

wherein adjusting the first financial parameter comprises:

adjusting, by the core node, the repayment period of the financing based on the entrusting fee.

3. The computer-implemented method of claim 1, wherein the first blockchain transaction comprises an indication by the light node that the adjusted first financial parameter should be a loan interest rate of the financing, and

wherein adjusting the first financial parameter comprises:

adjusting, by the core node, the loan interest rate of the financing based on the entrusting fee.

4. The computer-implemented method of claim 1, wherein the entity associated with the core node comprises a financial institution, and wherein the entity associated with the light node comprises a supplier.

5. The computer-implemented method of claim 1, wherein the adjusted first financial parameter comprises a loan interest rate or a loan repayment period.

6. The computer-implemented method of claim 1, wherein the core node has higher data processing resources than does the light node.

7. The computer-implemented method of claim 1, wherein the back-end blockchain data processing service entrusted to the core node by the light node comprises full block data backup or partial block data backup.

8. The computer-implemented method of claim 1, wherein the account receivable information included in the first blockchain transaction comprises a digest value of a third

blockchain transaction published on the ledger, the third blockchain transaction comprising raw account receivable information.

9. A non-transitory, computer-readable medium storing one or more instructions that, when executed by a computer system, cause the computer system to perform operations comprising:

performing, by a core node of a blockchain, a back-end blockchain data processing service entrusted to the core node by a light node of the blockchain, wherein the back-end blockchain data processing service comprises one or more of blockchain consensus calculation, blockchain ledger backup, or blockchain transaction verification;

obtaining, by the core node, from a ledger of the blockchain, a first blockchain transaction published to the ledger by the light node, the first blockchain transaction associated with financing between an entity associated with the light node and an entity associated with the core node;

obtaining, by the core node, from the ledger, a second blockchain transaction published to the ledger by the light node when the light node joins the blockchain, the second blockchain transaction specifying a type of the back-end blockchain data processing service entrusted to the core node by the light node;

determining, based on the second blockchain transaction, the type of the back-end blockchain data processing service entrusted to the core node by the light node;

calculating, by the core node, one or more financial parameters of the financing based on account receivable information included in the first blockchain transaction;

calculating, by the core node, an entrusting fee based on the type of the back-end blockchain data processing service entrusted to the core node by the light node, to compensate the entity associated with the core node for performing the back-end blockchain data processing service;

adjusting, by the core node, a first financial parameter of the one or more financial parameters of the financing to account for the entrusting fee; and

publishing, by the core node, to the ledger, a financing management smart contract specifying the one or more financial parameters, including the adjusted first financial parameter,

wherein the financing management smart contract is invocable by the light node to complete a management operation of the financing.

10. The non-transitory, computer-readable medium of claim 9, wherein the first blockchain transaction comprises an indication by the light node that the adjusted first financial parameter should be a repayment period of the financing, and

wherein adjusting the first financial parameter comprises:

adjusting, by the core node, the repayment period of the financing based on the entrusting fee.

11. The non-transitory, computer-readable medium of claim 9, wherein the first blockchain transaction comprises an indication by the light node that the adjusted first financial parameter should be a loan interest rate of the financing, and

wherein adjusting the first financial parameter comprises:

adjusting, by the core node, the loan interest rate of the financing based on the entrusting fee.

12. The non-transitory, computer-readable medium of claim 9, wherein the entity associated with the core node comprises a financial institution, and wherein the entity associated with the light node comprises a supplier.

13. 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, cause the one or more computers to perform one or more operations comprising:

performing, by a core node of a blockchain, a back-end blockchain data processing service entrusted to the core node by a light node of the blockchain, wherein the back-end blockchain data processing service comprises one or more of blockchain consensus calculation, blockchain ledger backup, or blockchain transaction verification;

obtaining, by the core node, from a ledger of the blockchain, a first blockchain transaction published to the ledger by the light node, the first blockchain transaction

associated with financing between an entity associated with the light node and an entity associated with the core node;

obtaining, by the core node, from the ledger, a second blockchain transaction published to the ledger by the light node when the light node joins the blockchain, the second blockchain transaction specifying a type of the back-end blockchain data processing service entrusted to the core node by the light node;

determining, based on the second blockchain transaction, the type of the back-end blockchain data processing service entrusted to the core node by the light node;

calculating, by the core node, one or more financial parameters of the financing based on account receivable information included in the first blockchain transaction;

calculating, by the core node, an entrusting fee based on the type of the back-end blockchain data processing service entrusted to the core node by the light node, to compensate the entity associated with the core node for performing the back-end blockchain data processing service;

adjusting, by the core node, a first financial parameter of the one or more financial parameters of the financing to account for the entrusting fee; and

publishing, by the core node, to the ledger, a financing management smart contract specifying the one or more financial parameters, including the adjusted first financial parameter,

wherein the financing management smart contract is invocable by the light node to complete a management operation of the financing.

14. The computer-implemented system of claim 13, wherein the first blockchain transaction comprises an indication by the light node that the adjusted first financial parameter should be a repayment period of the financing, and

wherein adjusting the first financial parameter comprises:

adjusting, by the core node, the repayment period of the financing based on the entrusting fee.

15. The computer-implemented system of claim 13, wherein the first blockchain transaction comprises an indication by the light node that the adjusted first financial parameter should be a

~~loan interest rate of the financing, and~~

~~wherein adjusting the first financial parameter comprises:~~

~~adjusting, by the core node, the loan interest rate of the financing based on the entrusting fee.~~

~~16. The computer-implemented system of claim 13, wherein the entity associated with the core node comprises a financial institution, and wherein the entity associated with the light node comprises a supplier.~~

1. A financing method, applied to a blockchain-based supply chain financial system, wherein the blockchain-based supply chain financial system comprises a blockchain, a light node, and a core node, wherein blockchain service resources are entrusted to the core node by the light node, wherein the blockchain service resources comprise consensus verification, block accounting, or block data backup, and wherein the method comprises:

obtaining, by the core node from the blockchain, a target transaction initiated by the light node for financing, wherein the target transaction comprises account receivable information;

determining a grant limit, a repayment period, and a loan interest rate of financing based on the account receivable information;

determining an entrusting fee based on a type of the consensus verification, block accounting, or block data backup entrusted by the light node to the core node;

adjusting the determined repayment period or the loan interest rate based on the entrusting fee; and

publishing a smart contract for financing management to the blockchain, wherein the smart contract specifies the determined grant limit, repayment period, and loan interest rate of the financing, including adjustment based on the entrusting fee, so the light node invokes the smart contract to complete a management operation on the financing.

2. The financing method according to claim 1, wherein the target transaction further comprises an entrusting fee payment method specified by the light node, and the entrusting fee payment method comprises a first payment method for converting the entrusting fee into the repayment period of the financing, and a second payment method for converting the entrusting fee into the loan interest rate of the financing; and

adjusting the determined repayment period or loan interest rate of the financing based on the entrusting fee comprises:

determining a specific type of an entrusting fee payment method specified by an initiator of the target transaction;

if the entrusting fee payment method is the first payment method, converting the entrusting fee into the repayment period of the financing, and adjusting the determined repayment period of the financing based on the converted entrusting fee; and

if the entrusting fee payment method is the second payment method, converting the entrusting fee into the loan interest rate of the financing, and adjusting the determined loan interest rate of the financing based on the converted entrusting fee.

3. The financing method according to claim 1, wherein the target transaction further comprises an entrusting fee payment method specified by the light node, wherein the entrusting fee payment method comprises a third payment method for separately paying the entrusting fee, and the method further comprises:

if the entrusting fee payment method is the third payment method, skipping adjusting the determined repayment period or loan interest rate of the financing.

4. The method according to any one of claims 1-3, wherein the core node is a financial institution node and a core enterprise node that are related to financing management, and the light node is a supplier node related to financing management.

5. A financing method, applied to a blockchain-based supply chain financial system, wherein the blockchain-based supply chain financial system comprises a blockchain, a light node, and a core node, wherein blockchain service resources are entrusted to the core node by the light node, wherein the blockchain service resources comprise consensus verification, block accounting, or block data backup, and wherein the method comprises:

determining an entrusting fee based on a type of the consensus verification, block accounting, or block data backup entrusted by the light node to the core node;

publishing, by the light node, a target transaction for financing to the blockchain, wherein the target transaction comprises account receivable information; and

invoking a smart contract published by the core node for financing management, wherein the smart contract specifies a grant limit, a repayment period, and a loan interest rate of the financing that are determined by the core node, so as to complete a management operation on the financing, wherein the repayment period or the loan interest rate is adjusted based on the entrusting fee.

6. The financing method according to claim 5, wherein the target transaction further comprises an entrusting fee payment method specified by the light node, and the entrusting fee payment method comprises a first payment method for converting the entrusting fee into the repayment period of the financing, and a second payment method for converting the entrusting fee into the loan interest rate of the financing; and

adjusting the determined repayment period or loan interest rate of the financing based on the entrusting fee comprises:

determining a specific type of an entrusting fee payment method specified by the light node;

if the entrusting fee payment method is the first payment method, converting the entrusting fee into the repayment period of the financing, and adjusting the determined repayment period of the financing based on the converted entrusting fee; and

if the entrusting fee payment method is the second payment method, converting the entrusting fee into the loan interest rate of the financing, and adjusting the determined loan interest rate of the financing based on the converted entrusting fee.

7. The financing method according to claim 5, wherein the target transaction further comprises an entrusting fee payment method specified by the light node, wherein the entrusting fee payment method comprises a third payment method for separately paying the entrusting fee, and the method further comprises:

if the entrusting fee payment method is the third payment method, skipping adjusting the determined repayment period or loan interest rate of the financing.

8. The method according to any one of claims 5-7, wherein the core node comprises a financial institution node and a core enterprise node, and the light node is a supplier node related to financing management.

9. A financing apparatus, applied to a blockchain-based supply chain financial system, wherein the blockchain-based supply chain financial system comprises a blockchain, a light node and a core node, wherein blockchain service resources are entrusted to the core node by the light node, wherein the blockchain service resources comprise consensus verification, block accounting, or block data backup, and wherein the financing apparatus comprises:

an acquisition unit, configured to obtain, by the core node from the blockchain, a target transaction initiated by the light node for financing, wherein the target transaction comprises account receivable information;

a calculation unit, configured to

determine, by the core node, a repayment period and a loan interest rate of financing based on the account receivable information,

determine an entrusting fee based on a type of the consensus verification, block accounting, or block data backup entrusted by the light node to the core node, and

adjust the determined repayment period or the loan interest rate based on the entrusting fee; and

a smart contract deployment unit, configured to publish, by the core node to the blockchain, a smart contract for financing management, wherein the smart contract specifies the determined repayment period and loan interest rate of the financing, including adjustment based on the entrusting fee, so the light node invokes the smart contract to complete a management operation on the financing.

10. The financing apparatus according to claim 9, wherein the target transaction further comprises an entrusting fee payment method specified by the light node, and the entrusting fee payment method comprises a first payment method for converting the entrusting fee into the repayment period of the financing, and a second payment method for converting the entrusting fee into the loan interest rate of the financing; and

the calculation unit is configured to:

determine a specific type of an entrusting fee payment method specified by an initiator of the target transaction;

if the entrusting fee payment method is the first payment method, convert the entrusting fee into the repayment period of the financing, and adjust the determined repayment period of the financing based on the converted entrusting fee; and

if the entrusting fee payment method is the second payment method, convert the entrusting fee into the loan interest rate of the financing, and adjust the determined loan interest rate of the financing based on the converted entrusting fee.

11. The financing apparatus according to claim 9, wherein the target transaction further comprises an entrusting fee payment method specified by the light node, wherein the entrusting fee payment method comprises a third payment method for separately paying the entrusting fee, and the calculation unit is configured to:

if the entrusting fee payment method is the third payment method, skip adjusting the determined repayment period or loan interest rate of the financing.

12. The financing apparatus according to any one of claims 9-11, wherein the core node comprises a financial institution node and a core enterprise node, and the light node is a supplier node.

13. A financing apparatus, applied to a blockchain-based supply chain financial system, wherein the blockchain-based supply chain financial system comprises a blockchain, a light node, and a core node, wherein blockchain service resources are entrusted to the core node by the light node, wherein the blockchain service resources comprise consensus verification, block accounting, or block data backup, and wherein the financing apparatus comprises:

a publishing unit, configured to publish, by the light node, a target transaction for financing to the blockchain, wherein the target transaction comprises account receivable information; and

an invoking unit, configured to invoke, by the light node, a smart contract published by the core node for financing management, wherein the smart contract specifies a grant limit, a repayment period, and a loan interest rate of the financing that are determined by the core node, so as to complete a management operation on the financing, wherein an entrusting fee is determined based on a type of the consensus verification, block accounting, or block data backup

entrusted by the light node to the core node, and wherein the repayment period or the loan interest rate is adjusted based on the entrusting fee.

14. A computer device, comprising a memory and a processor, wherein the memory stores a computer program that can be run by the processor; when running the computer program, the processor performs a step according to any one of claims 1-4.

15. A computer device, comprising a memory and a processor, wherein the memory stores a computer program that can be run by the processor; when running the computer program, the processor performs a step according to any one of claims 5-8.

16. A computer readable storage medium on which a computer program is stored, wherein when the computer program is run by a processor, a step according to any one of claims 1-4 is performed.

17. A computer readable storage medium on which a computer program is stored, wherein when the computer program is run by a processor, a step according to any one of claims 5-8 is performed.