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.