

CLAIMS

What is claimed is:

1. A method for modifying a blockchain network configuration, wherein a user account of a blockchain network comprises at least one administrator account, and the
5 method comprises:

obtaining, by a management client device, modification operation information, wherein the management client device is a blockchain client device on which the administrator account is logged in;

constructing, by the management client device, a configuration modification
10 transaction comprising the modification operation information, and signing the configuration modification transaction by using the logged-in administrator account;

submitting, by the management client device, the signed configuration modification transaction to the blockchain network; and

after performing signature verification on the configuration modification
15 transaction, modifying, by each node in the blockchain network based on the modification operation information comprised in the configuration modification transaction, blockchain network configuration information stored in the node, and writing the configuration modification transaction into the blockchain;

wherein if the user account of the blockchain network comprises more than one
20 administrator account, before the submitting, by the management client device, the signed configuration modification transaction to the blockchain network, the method further comprises:

signing, by the management client device, the configuration modification
25 transaction by using a key of at least one another administrator account than the logged-in administrator account.

2. The method according to claim 1, wherein the obtaining, by a management client device, modification operation information specifically comprises:

displaying, by the management client device, a human-machine interaction
30 interface, wherein the human-machine interaction interface has a function of displaying blockchain network configuration information; and

monitoring, by the management client device by using the human-machine interaction interface, a modification operation performed by a user on configuration information displayed on the human-machine interaction interface, and obtaining

modification operation information based on the monitored modification operation.

~~3. The method according to claim 1, wherein if the user account of the blockchain network comprises more than one administrator account, before the submitting, by the management client device, the signed configuration modification transaction to the blockchain network, the method further comprises:~~

~~signing, by the management client device, the configuration modification transaction by using a key of at least one another administrator account than the logged-in administrator account.~~

34. The method according to claim 1, wherein if the user account created on the blockchain network comprises more than one administrator account, before the performing signature verification, by each node, on the configuration modification transaction, the method further comprises:

obtaining, by at least one another management client device, the configuration modification transaction from the blockchain network, wherein the another management client device is a blockchain client device on which another administrator account is logged in; and

signing, by the at least one another management client device, the configuration modification transaction by using the logged-in another administrator account, and submitting the signed configuration modification transaction to the blockchain network.

45. The method according to claim 13 or 34, wherein a weight is allocated to each administrator account; and

the performing signature verification on the configuration modification transaction specifically comprises:

determining, for each signature corresponding to the configuration modification transaction, whether ~~an~~the authenticity of signature is validated;

if the authenticity of signature is validated, obtaining a weight corresponding to an administrator account that generates the signature as a weight corresponding to the signature;

summing weights corresponding to all signatures that passed the authenticity validation;

if the obtained weight sum is greater than a predetermined weight, determining that the configuration modification transaction passes ~~the~~ signature verification; or

if the obtained weight sum is not greater than the predetermined weight, determining that the configuration modification transaction does not pass the signature verification.

5 ~~56.~~ A method for modifying a blockchain network configuration, wherein a user account of a blockchain network comprises at least one administrator account, and the method comprises:

obtaining, by a management client device, modification operation information, wherein the management client device is a blockchain client device on which the
10 administrator account is logged in;

constructing a configuration modification transaction comprising the modification operation information, and signing the configuration modification transaction by using the logged-in administrator account; and

submitting the signed configuration modification transaction to the blockchain
15 network, so after performing signature verification on the configuration modification transaction, each node in the blockchain network modifies, based on the modification operation information comprised in the configuration modification transaction, blockchain network configuration information stored in the node, and writes the configuration modification transaction into the blockchain;

20 wherein if the user account of the blockchain network comprises more than one administrator account, before the submitting the signed configuration modification transaction to the blockchain network, the method further comprises:

signing, by the management client device, the configuration modification transaction by using a key of at least one another administrator account than the logged-
25 in administrator account.

~~7. A method for modifying a blockchain network configuration, wherein a user account of a blockchain network comprises at least one administrator account, and the method comprises:~~

30 ~~after performing signature verification on a configuration modification transaction, performing, by each node in the blockchain network, a configuration operation on the node based on modification operation information comprised in the configuration modification transaction, and writing the configuration modification transaction into the blockchain;~~

~~wherein the configuration modification transaction is constructed and submitted to the blockchain network by a management client device after obtaining the modification operation information, the management client device is a blockchain client device that an administrator account is logged in, and the management client device has signed the configuration modification transaction by using the logged-in administrator account.~~

68. A blockchain system, comprising at least one blockchain client device and a blockchain network, wherein a user account of the blockchain network comprises at least one administrator account, and ~~at the~~ management client device is a blockchain client device that an administrator account is logged in;

the management client device obtains modification operation information;
constructs a configuration modification transaction comprising ~~at the~~ modification operation information, and signs the configuration modification transaction by using a key of the logged-in administrator account;
and submits the configuration modification transaction to the blockchain network; and

after performing signature verification on the configuration modification transaction, each node in the blockchain network modifies, based on the modification operation information comprised in the configuration modification transaction, blockchain network configuration information stored in the node, and writes the configuration modification transaction into the blockchain;

wherein if the user account of the blockchain network comprises more than one administrator account, the management client device is configured to sign, as a signed configuration modification transaction, the configuration modification transaction by using a key of at least one another administrator account than the logged-in administrator account before submitting the signed configuration modification transaction to the blockchain network.

79. An apparatus for modifying a blockchain network configuration, wherein a user account of a blockchain network comprises at least one administrator account, and the apparatus comprises:

an acquisition module, configured to obtain modification operation information, wherein ~~at the~~ management client device is a blockchain client device on which the administrator account is logged in;

a construction module, configured to: construct a configuration modification

transaction comprising the modification operation information, and sign the configuration modification transaction by using the logged-in administrator account; and

a submission module, configured to submit the signed configuration modification transaction to the blockchain network, so after performing signature verification on the configuration modification transaction, each node in the blockchain network modifies, based on the modification operation information comprised in the configuration modification transaction, blockchain network configuration information stored in the node, and writes the configuration modification transaction into the blockchain;

wherein if the user account of the blockchain network comprises more than one administrator account, the construction module is configured to sign the configuration modification transaction by using a key of at least one another administrator account than the logged-in administrator account before submission of the signed configuration modification transaction to the blockchain network by the submission module.

~~10. An apparatus for modifying a blockchain network configuration, wherein a user account of the blockchain network comprises at least one administrator account, the blockchain network comprises a plurality of apparatuses, and the apparatus comprises:~~

~~a processing module, configured to: after performing signature verification on a configuration modification transaction, perform a configuration operation on the node based on modification operation information comprised in the configuration modification transaction, and write the configuration modification transaction into the blockchain;~~

~~wherein the configuration modification transaction is constructed and submitted to the blockchain network by a management client device after obtaining the modification operation information, the management client device is a blockchain client device that an administrator account is logged in, and the management client device has signed the configuration modification transaction by using the logged in administrator account.~~

811. A computer device, comprising a memory, a processor, and a computer program that is stored in the memory and that can run on the processor, wherein when executing the program, the processor implements the method according to claim 56 or 7.