

CLAIMS

What is claimed is:

1. A method for asset management, the method comprising:

receiving, from a target user recorded in a distributed database of a blockchain, a user input comprising a request to transfer a plurality of asset objects of a plurality of different asset types, the plurality of asset objects being created by invoking ~~of~~ a plurality of smart contract objects and comprising digital assets corresponding to physical assets associated with the target user, wherein the physical assets comprise at least two items selected from a list consisting of a fund, a house property, a stock, a loan contract, a bill, and a receivable item, and wherein each smart contract object of the plurality of smart contract objects corresponds to a respective asset type of the plurality of different asset types (102);

in response to receiving the request, combining the plurality of asset objects of the plurality of different asset types in a target object, the target object comprising an address field used to maintain address information of the plurality of asset objects and corresponding to an asset type specified in the request (104);

retrieving historical data associated with a predetermined feature of the plurality of asset objects, wherein the historical data of the target user comprises at least one of domain name system logs and operating system logs and is associated with past blocked network communications or allowed network communications, and wherein the past blocked network communications comprise past transactions previously identified as having a risk associated with a malicious process, resulting in the past blocked network communications recorded within the historical data of the target user, wherein the historical data is to be validated by a predetermined transfer rule and the predetermined transfer rule is configured to protect a security and a confidentiality of the target user;

determining based on processing the historical data that the request satisfies the predetermined transfer rule;

in response to determining that the request satisfies the predetermined transfer rule, deleting the address information corresponding to the plurality of asset objects from the target object; and

adding the address information to asset receiving objects corresponding to the plurality of asset objects.

2. The method according to claim 1, wherein the plurality of asset objects comprises the target object specified by a target user.

3. The method according to claim 2, wherein combining the plurality of asset objects into a target object comprises:

adding address information of one or more asset objects other than the target object in the plurality of asset objects to the target object.

4. The method according to claim 1, wherein the request comprises an asset type specified by a target user, and a smart contract object corresponding to the ~~specified~~-asset type specified by the target user is deployed in the blockchain.

5. The method according to claim 4, wherein combining the plurality of asset objects into a target object comprises:

invoking the smart contract object corresponding to the asset type specified by the target user, to create the target ~~asset~~-object; and

adding the address information of the plurality of asset objects to the target ~~asset~~-object.

6. The method according to claim 1, further comprising:

deploying a smart contract object corresponding to an asset type of the target object in the blockchain, the smart contract object declaring an execution program used to transfer an asset object, and the target object is created by invoking the ~~corresponding~~-smart contract object.

7. The method according to claim 6, wherein removing address information of the plurality of asset objects from target objects holding the plurality of asset objects, and adding address information of the target ~~asset~~-object to asset receiving objects corresponding to the plurality of asset objects comprises:

invoking the execution program declared in the smart contract object that corresponds to

the asset type of the target object and that is deployed in the blockchain, and determining whether the request satisfies a predetermined transfer rule; and

if the request satisfies the predetermined transfer rule, removing the address information of the plurality of asset objects from the target objects holding the plurality of asset objects, and adding the address information of the target object to an asset receiving object corresponding to the target ~~asset~~-object.

8. The method according to claim 1, wherein ~~an object supported by the blockchain comprises an address field, and~~ the address field is used to maintain address information of an asset object held by the object.

9. The method according to claim 8, wherein removing address information of the plurality of asset objects from target objects holding the plurality of asset objects, and adding address information of the target object to the asset receiving objects comprises:

removing the address information of the plurality of asset objects from the address fields ~~s~~ in the target objects holding the plurality of asset objects, and adding the address information of the target object to ~~an~~the address field in an asset receiving object corresponding to the target ~~asset~~ object.

10. The method according to claim 1, wherein an object supported by the blockchain further comprises a code field, and the code field is used to maintain execution code related to an execution program declared in the object.

11. The method according to claim 1, wherein an asset receiving object corresponding to the target object comprises:

an asset receiving object that is specified by a user and that corresponds to the target object;
or

an asset receiving object that is declared in a smart contract object corresponding to an asset type of the target object and that corresponds to the target object.

12. The method according to claim 1, wherein an object supported by the blockchain comprises

an account object, a smart contract object, and an asset object; and

the asset receiving object corresponding to the target object comprises any one of ~~an~~the account object, ~~a~~the smart contract object, and ~~an~~the asset object.

13. The method according to claim 1, wherein the blockchain is a consortium blockchain, and a target member in the blockchain is a consortium member having a right of creating an asset object in the consortium blockchain.

14. The method according to claim 13, wherein the consortium member obtains a public key and a private key returned by the consortium blockchain, the public key being used as an account address of an institution in the consortium blockchain, and the private key being used as a unique key used by the institution to operate the account.

15. An apparatus for asset management, the apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 14.