

CLAIMS

What is claimed is:

1. A method for asset management, the method comprising:
receiving, by a network node of a blockchain network, an asset object creation request (102);
in response to the asset object creation request, invoking a smart contract object that is deployed in the blockchain network and that corresponds to an asset type of an asset object to create the asset object (104); and
adding address information of the created asset object to a target object that holds the asset object (106).
2. The method according to claim 1, wherein an execution program used to create the asset object is stated in the smart contract object.
3. The method according to claim 2, wherein invoking the smart contract object comprises:
invoking the execution program stated in a smart contract object that is deployed by a target member of the blockchain network in the blockchain network and that corresponds to the asset type of the asset object to create the asset object.
4. The method according to claim 1, wherein the asset object supported by the blockchain network comprises an address field, and the address field is used to maintain address information of an asset object held by the object.
5. The method according to claim 4, wherein adding address information of the created asset object to the target object that holds the asset object comprises:
adding the address information of the created asset object to the address field of the target object that holds the asset object.

6. The method according to claim 1, wherein the asset object supported by the blockchain network further comprises a code field, and the code field is used to maintain execution code related to an execution program stated in the object.
7. The method according to claim 1, wherein the target object that holds the asset object comprises:
 - a target object that is specified by a user and that is used to hold the asset object; or
 - a target object that is stated in the smart contract object and that is used to hold the asset object.
8. The method according to claim 1, wherein:
 - objects supported by the blockchain network comprise an account object, a smart contract object, and an asset object; and
 - the target object that holds the asset object comprises any one of the account object, the smart contract object, and the asset object.
9. The method according to claim 1, wherein the blockchain network is a consortium chain, and a target member in the blockchain network is a consortium member that has asset object creation authority in the consortium chain.
10. The method according to any one of claims 1 to 8, further comprising:
 - receiving, by the network node in a blockchain network, an asset object transfer request initiated by a target user, wherein the asset object transfer request comprises to-be-transferred target asset objects (202); and
 - in response to the asset object transfer request, removing address information of the target asset object from a target object that holds the target asset object, and adding the address information of the target asset object to an asset receiving object that corresponds to the target asset object (204).

11. The method according to claim 10, wherein a smart contract object that corresponds to an asset type of the target asset object is deployed in the blockchain network, an execution program used to transfer an asset object is stated in the smart contract object, and the target asset object is created by invoking the smart contract object; and

removing address information of the target asset object from the target object that holds the target asset object, and adding the address information of the target asset object to an asset receiving object that corresponds to the target asset object comprises:

invoking the execution program stated in the smart contract object that is deployed in the blockchain network and that corresponds to the asset type of the target asset object, and determining whether an asset transferring request satisfies a predetermined transfer rule; and

if the asset transferring request satisfies the predetermined transfer rule, removing the address information of the target asset object from the target object that holds the target asset object, and adding the address information of the target asset object to the asset receiving object that corresponds to the target asset object.

12. The method according to claim 10, wherein removing address information of the target asset object from a target object that holds the target asset object, and adding the address information of the target asset object to an asset receiving object that corresponds to the target asset object comprises:

removing the address information of the target asset object from an address field in the target object that holds the target asset object; and

adding the address information of the target asset object to the address field in the asset receiving object that corresponds to the target asset object.

13. The method according to claim 9, wherein an object supported by the blockchain network further comprises a code field, and the code field is used to maintain execution code related to an execution program stated in the object.

14. The method according to claim 9, wherein the asset receiving object that corresponds to the target asset object comprises:

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

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

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.