

CLAIMS

What is claimed is:

1. A method for blockchain-based smart contract call, the method comprising:
receiving a target transaction initiated by a client device of a blockchain, wherein the target transaction is preconfigured with a call rule used to initiate a call for a smart contract;
in response to receiving the target transaction, returning a call prompt to the client device before obtaining the call rule configured for the target transaction;
executing the call rule to initiate a call for a target smart contract; and
returning a call result to the client device when the call for the target smart contract is completed, the call result comprising a call feedback received from a called device.
2. The method according to claim 1, wherein the target transaction carries description information, and wherein the description information is used to determine the call rule preconfigured for the target transaction.
3. The method according to claim 2, wherein obtaining the call rule configured for the target transaction comprises:
determining, based on the description information, the call rule configured for the target transaction; and
obtaining the call rule from a call rule set.
4. The method according to claim 3, wherein the description information is a transaction type of the target transaction, and wherein the call rule comprises a supported transaction type.
5. The method according to claim 4, wherein determining, based on the description information, the call rule configured for the target transaction comprises:
searching for the call rule whose supported transaction type matches the transaction type of the target transaction; and
determining the call rule as the call rule configured for the target transaction.
6. The method according to claim 1, wherein the call rule comprises the target smart contract that needs to be called, a target smart contract method, and a call parameter.

7. The method according to claim 6, wherein executing the call rule to initiate the call for the target smart contract comprises:
- executing the call rule; and
 - transferring the call parameter comprised in the call rule to the target smart contract method in the target smart contract comprised in the call rule, to initiate the call for the target smart contract method.
8. The method according to claim 7, wherein the call rule further comprises an authorized public key, and wherein the target transaction further comprises a signature submitted based on a private key held by the client device.
9. The method according to claim 8, wherein before executing the call rule to initiate the call for the target smart contract, the method further comprises:
- performing authentication of the signature of the target transaction based on the authorized public key in the call rule; and
 - in response to determining that the authentication of the signature of the target transaction succeeds, executing the call rule to initiate the call for the target smart contract.
10. The method according to claim 8, wherein returning the call result to the client device comprises:
- calling a callback interface of the client device;
 - using the call result as the call parameter; and
 - transferring the call result to the client device.
11. The method according to claim 1, wherein the blockchain comprises a private blockchain, a public blockchain, or a consortium blockchain.
12. An apparatus for blockchain-based smart contract call, the apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 11.