CLAIMS

What is claimed is:

1. A method for managing a remittance path based on a blockchain, wherein the blockchain stores a first smart contract, the first smart contract is used to manage an available remittance path of at least one participant among a plurality of participants of a target remittance transaction, the available remittance path of the at least one participant is used to indicate an available remittance path that can be provided by the at least one participant for the target remittance transaction, and the at least one participant comprises a first participant and a second participant;

the method comprises:

receiving a first invoking request of the first smart contract from the first participant, wherein the first invoking request is used to set an available remittance path of the first participant;

setting the available remittance path of the first participant in the first smart contract based on the first invoking request;

receiving a first transaction execution request from the second participant, wherein the first transaction execution request is used to request the first participant to execute the target remittance transaction;

invoking the first smart contract in response to the first transaction execution request to query whether a remittance path needed by the target remittance transaction matches the available remittance path of the first participant; and

terminating the target remittance transaction if the remittance path needed by the target remittance transaction does not match the available remittance path of the first participant,

wherein the first transaction execution request is an invoking request of a second smart contract, the second smart contract is used to execute the target remittance transaction, and a status of the second smart contract is used to indicate a transaction status of the target remittance transaction,

the second smart contract comprises transaction information of the target remittance transaction and an address of the first smart contract, wherein the transaction information comprises the remittance path needed by the target remittance transaction,

in a process of executing the second smart contract, the first smart contract is invoked based on the address to query whether the remittance path needed by the target remittance transaction matches the available remittance path of the first participant,

if the remittance path needed by the target remittance transaction does not match the available remittance path of the first participant, the target remittance transaction is terminated and the status of the second smart contract is set to closure,

and if the remittance path needed by the target remittance transaction matches the available remittance path of the first participant, the status of the second smart contract is advanced to a next state indicating waiting for the first participant to confirm the current transaction.

2. The method according to claim 1, wherein the plurality of participants comprise a third participant, and the method further comprises:

receiving a second invoking request of the first smart contract from the third participant, wherein the second invoking request is used to query the available remittance path of the first participant; and

returning the available remittance path of the first participant to the third participant.

3. The method according to claim 1, wherein the method further comprises:

receiving a third invoking request of the first smart contract from the first participant, wherein the third invoking request is used to update the available remittance path of the first participant; and

updating the available remittance path of the first participant in the first smart contract based on the third invoking request.

4. The method according to any one of claims 1 to 3, wherein the first smart contract is further used to manage a currency type supported by the available remittance path of the first participant.

5. An apparatus for managing a remittance path based on a blockchain, wherein the blockchain stores a first smart contract, the first smart contract is used to manage an available remittance path of at least one participant among a plurality of participants of a target remittance transaction, the available remittance path of the at least one participant is used to indicate an available remittance path that can be provided by the at least one participant for the target remittance transaction, and the at least one participant comprises a first participant and a second participant;

the apparatus comprises:

a receiving module, configured to receive a first invoking request of the first smart contract from the first participant, wherein the first invoking request is used to set an available remittance path of the first participant;

a processing module, configured to set the available remittance path of the first participant in the first smart contract based on the first invoking request;

the receiving module is further configured to receive a first transaction execution request from the second participant, wherein the first transaction execution request is used to request the first participant to execute the target remittance transaction;

the processing module is further configured to invoke the first smart contract in response to the first transaction execution request to query whether a remittance path needed by the target remittance transaction matches the available remittance path of the first participant; and

the processing module is further configured to terminate the target remittance transaction

if the remittance path needed by the target remittance transaction does not match the available remittance path of the first participant,

wherein the first transaction execution request is an invoking request of a second smart contract, the second smart contract is used to execute the target remittance transaction, and a status of the second smart contract is used to indicate a transaction status of the target remittance transaction,

the second smart contract comprises transaction information of the target remittance transaction and an address of the first smart contract, wherein the transaction information comprises the remittance path needed by the target remittance transaction,

in a process of executing the second smart contract, the first smart contract is invoked based on the address to query whether the remittance path needed by the target remittance transaction matches the available remittance path of the first participant,

if the remittance path needed by the target remittance transaction does not match the available remittance path of the first participant, the target remittance transaction is terminated and the status of the second smart contract is set to closure,

and if the remittance path needed by the target remittance transaction matches the available remittance path of the first participant, the status of the second smart contract is advanced to a next state indicating waiting for the first participant to confirm the current transaction.

6. The apparatus according to claim 5, wherein the plurality of participants comprise a third participant;

the receiving module is configured to receive a second invoking request of the first smart contract from the third participant, wherein the second invoking request is used to query the available remittance path of the first participant; and

the processing module is configured to return the available remittance path of the first participant to the third participant.

7. The apparatus according to claim 5, wherein

the receiving module is configured to receive a third invoking request of the first smart contract from the first participant, wherein the third invoking request is used to update the available remittance path of the first participant; and

the processing module is configured to update the available remittance path of the first participant in the first smart contract based on the third invoking request.

8. The apparatus according to any one of claims 5 to 7, wherein the first smart contract is further used to manage a currency type supported by the available remittance path of the first participant.

9. An apparatus for managing a remittance path based on a blockchain, comprising a memory and a processor, wherein the memory stores executable code, and the processor is configured to execute the executable code to implement the method according to any one of claims 1 to 4.