

EXECUTING MULTI-PARTY TRANSACTIONS USING SMART CONTRACTS

ABSTRACT

Implementations of the present specification include receiving first transaction information from a first node, wherein the first node is a computer node in the blockchain network, and wherein the first transaction information comprises a transaction payload, a first public key, and a signed transaction payload for a transaction, verifying the signed transaction payload using the first public key, in response to the verifying the signed transaction payload, constructing an unconfirmed transaction data package, and setting a confirmation status of the unconfirmed transaction data package, receiving second transaction information from a second node, wherein the second node is a computer node in the blockchain network, and wherein the second transaction information includes a hash of the transaction payload, a second public key, and a signed hash of the transaction payload for the transaction, verifying the second transaction information using the second public key, updating the confirmation status of the unconfirmed transaction data package, and executing the transaction payload in response to the confirmation status indicating that all parties to the transaction have confirmed the transaction.

FIG. 4