TestCoin Operation Manual

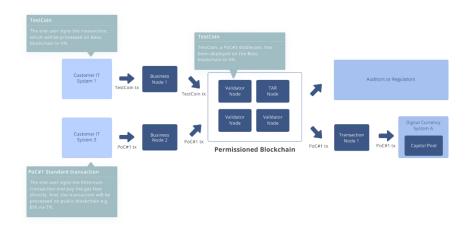
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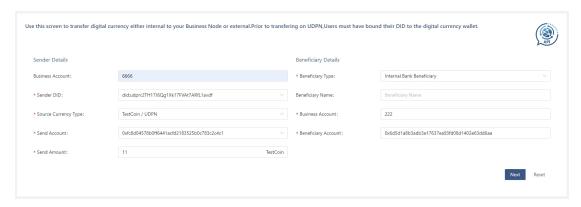
1. Background

Using the Ethereum testnet as a reference, in usual situations, it usually requires approximately 5-10 minutes to complete a transfer transaction due to the operational procedures of public blockchains. Nevertheless, on the Besu chain, employing smart contracts for executing a transfer transaction can be done in just a few seconds. To showcase the rapidity of transactions on the Besu chain, we present TestCoin from PoC#3 as an example for executing a transfer transaction. The diagram below illustrates the exact process of executing this transaction.



2. TestCoin Transfer

Access the sandbox system and navigate to Transaction Management -> TestCoin Transfer. Fill in the necessary details of the Sender and then proceed to enter the relevant information of the Beneficiary. Click on the "Next" button to initiate the transfer. Please note that the TestCoin Transfer feature is primarily designed to showcase the superior speed of TestCoin on the Besu chain compared to stablecoins on public chains. As a result, the TestCoin Transfer function replicates and utilizes the binding information of USDC-ETH. This means that if the Business Account of USDC is linked to the sender's DID, you can utilize the Business Account, Sender DID, Source Currency Type, and Sender Account in the TestCoin Transfer process.



The 【Simulated Signature】 page pops up to simulate the end user using the private key to sign the transaction message. Click the "Sign and Submit" button to submit the transfer transaction to the chain for processing.

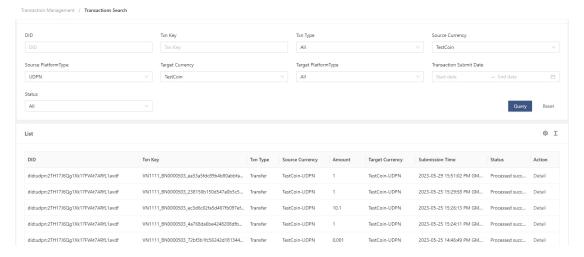


After successful processing, the Transaction Key is returned. Users can use the Transaction Key in the 【Transaction Search】 module to query TestCoin Transfer transactions.

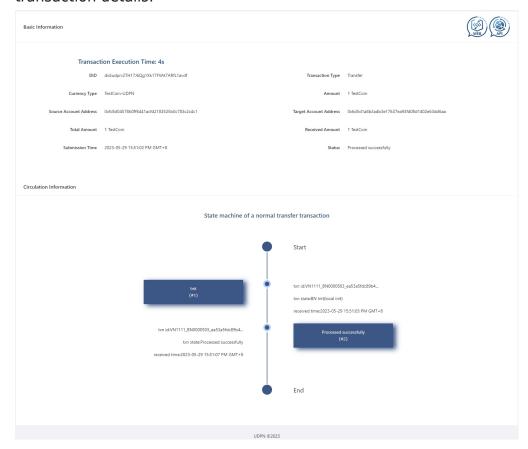


3. Transactions Search

You can query TestCoin Transfer transaction information according to DID, Transaction Key, Transaction Type (Transfer), Source Currency (TestCoin), Source Platform Type (UDPN), Target Currency (TestCoin), Target Platform Type (UDPN), Transaction Submit Date, Status and other query conditions.



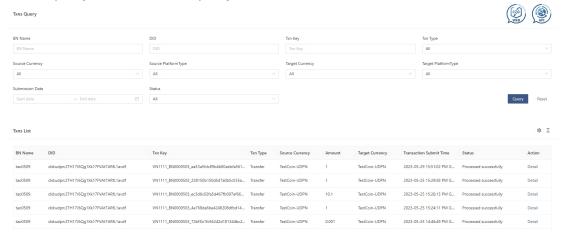
Click the "Detail" button in the list to view the TestCoin Transfer transaction details:



4. VN Node->Transactions Search

Users can query the TestCoin Transfer transaction currently being processed by VN on the VN side.

Enter BN Name, DID, Transaction Key, Transaction Type (Transfer), Source Currency (TestCoin), Source Platform Type (UDPN), Target Currency (TestCoin), Target Platform Type (UDPN), Transaction Submit Date, Status and other query conditions to query TestCoin Transfer transaction information.



Click the "Detail" button in the list to view the TestCoin Transfer transaction details:

