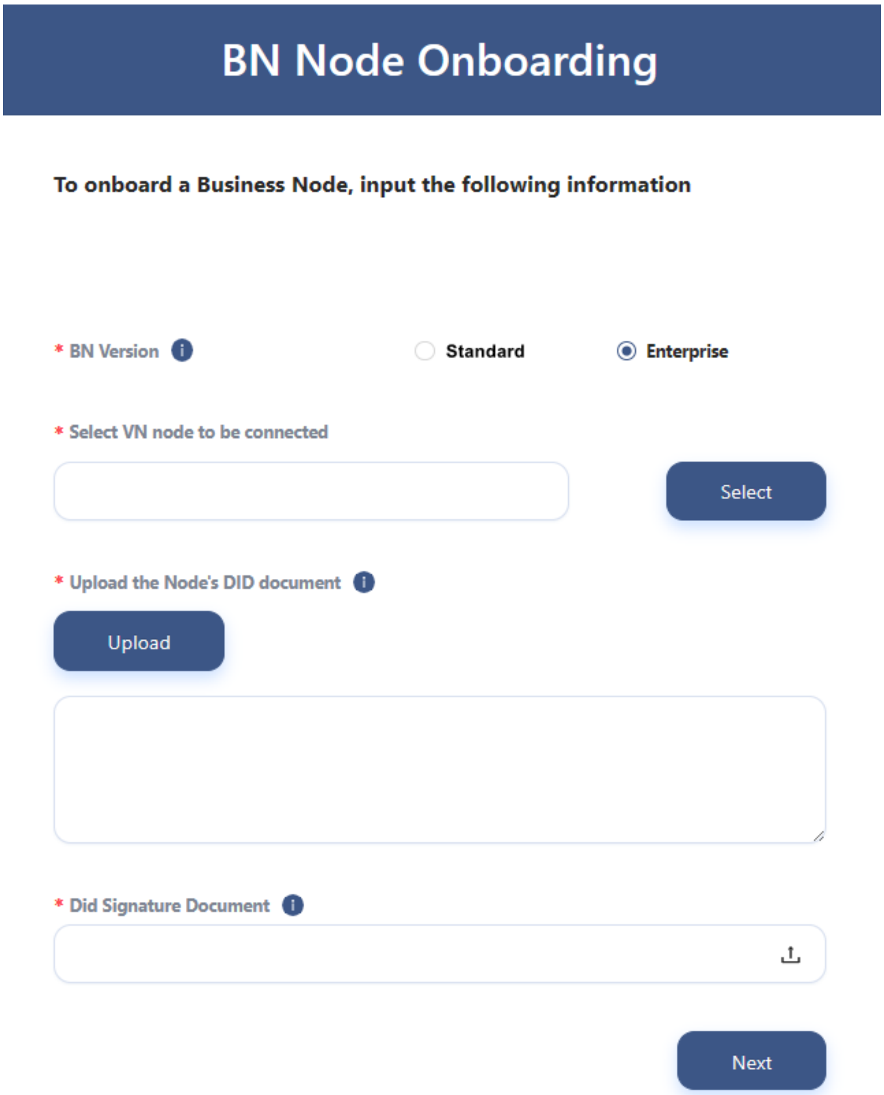
BN Back-end Management System Operation Manual

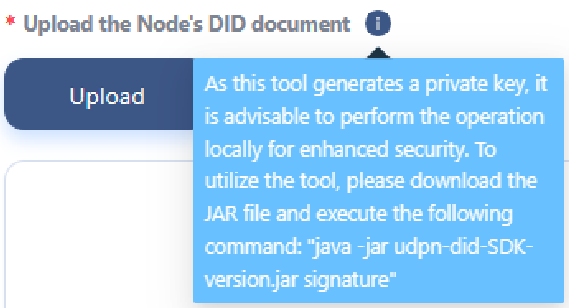
1. BN Node Onboarding

After installing the BN node, users should open the local link (http://localhost:8080/) and fill out the BN network access information:

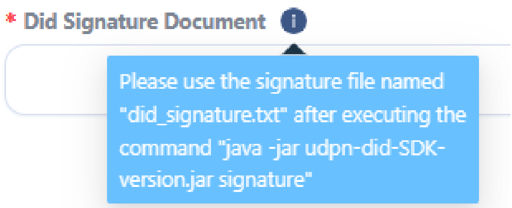


Users should select the BN version and VN to connect to, upload the DID and DID signature document, and click "Next";

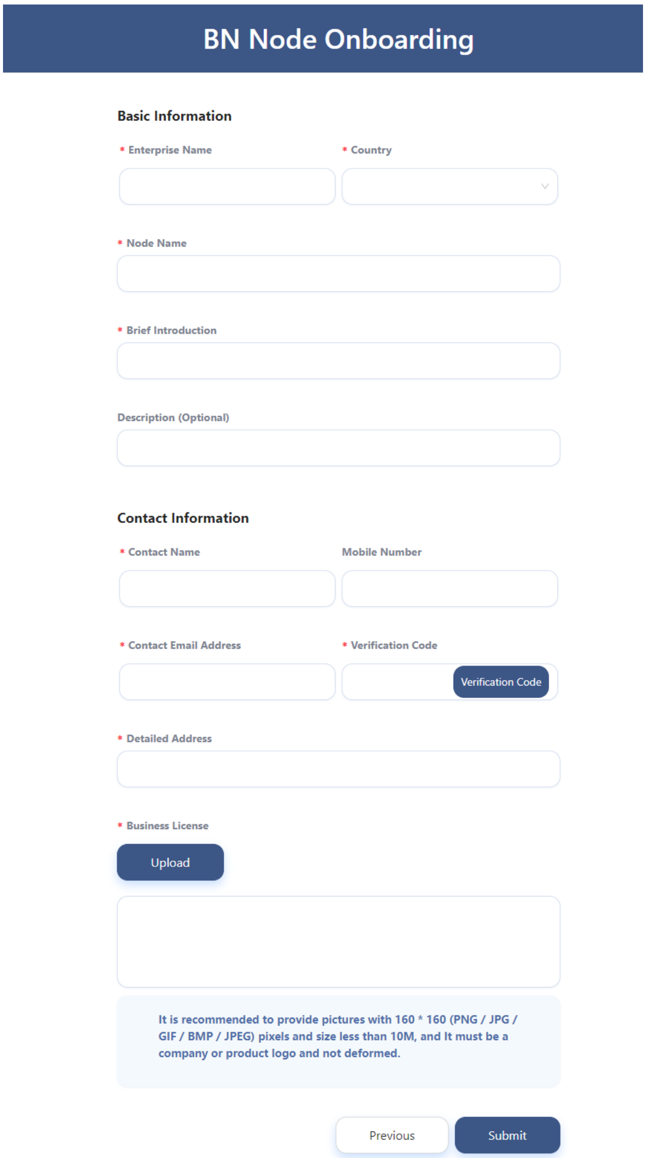
- For information on how to generate the DID document, please refer to:



- For information on how to generate the DID Signature Document, please refer to::



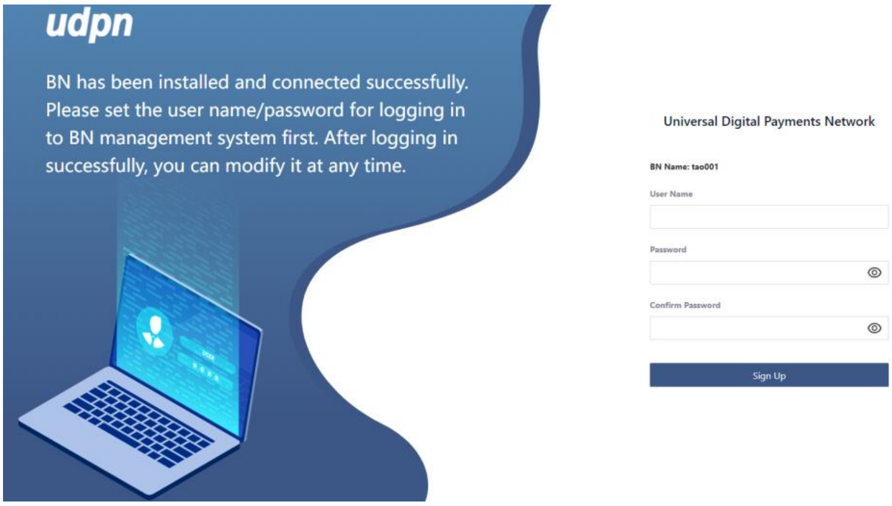
Users should enter their basic information, including Enterprise Name, Country, Node Name, Brief Introduction, and Description, as well as their contact information, including Contact Name, Mobile Number, Contact Email Address, Verification Code, and Detailed Address. After uploading their Business License, they should submit their application for network access and wait for the VN governance system to vote.



2. Creating a Login Account and Logging In

2.1 Creating a Login Account

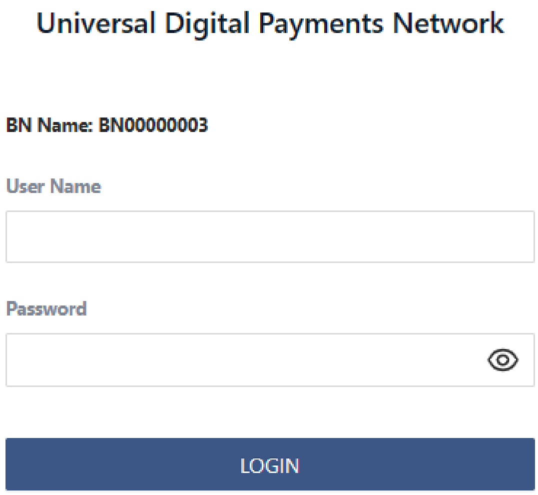
After the BN node’s network access application is approved, users can proceed to create a login account:



Users can create an account by entering their User Name, Password, and Confirm Password.

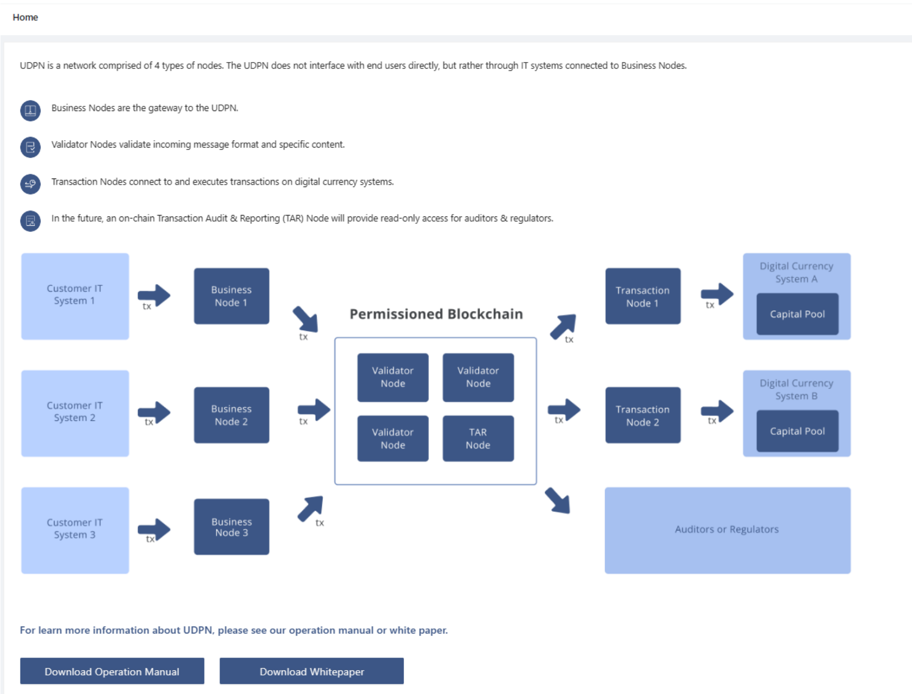
2.2 Logging In

Users can log in to the BN back-end management system by entering their User Name and Password.



3. Home

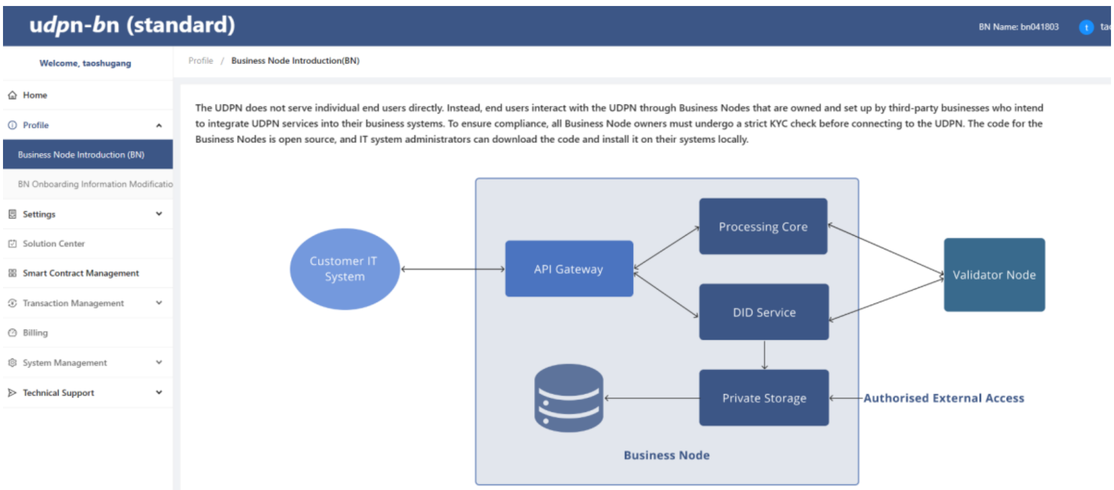
Here, users can learn about the overall overview and technical architecture of UDPN. Users can also download user manuals and white papers to learn more about UDPN.



4. Profile

4.1 Business Node Introduction (BN)

Go to the "Home-> Business Node Introduction" page, where you can view the information of Business Node Introduction (BN).



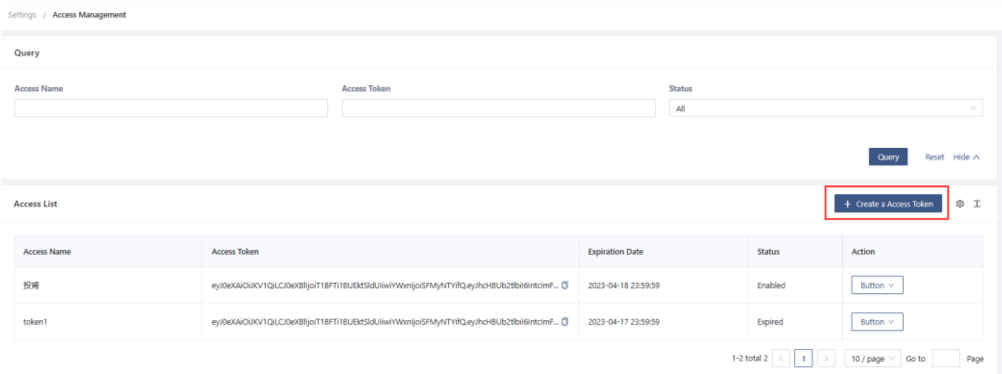
5. Settings

5.1 Access Management

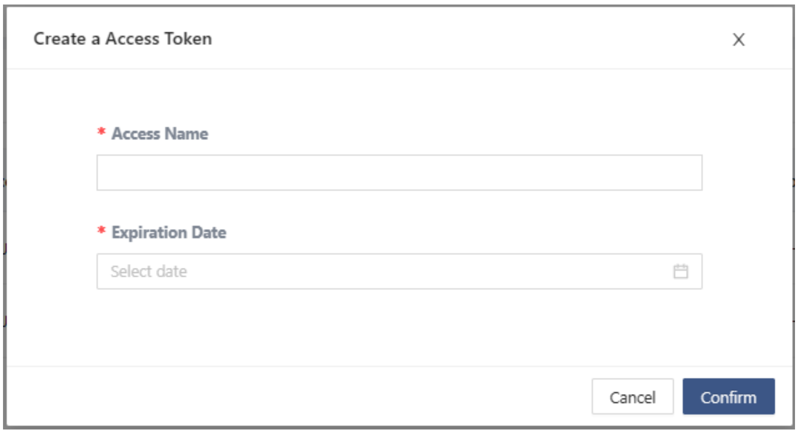
When an IT business system accesses BN through an interface, BN must assign an Access Token to the business system before it can access the system. Access Tokens have three states: Enabled, Disabled, and Expired. When in the Enabled state, Access Tokens can be refreshed, disabled, or deleted. When in the Disabled state, Access Tokens can be enabled or deleted. When in the Expired state, Access Tokens can be deleted.

5.1.1 Create an Access Token

On the "Access Management" page, click the "Create an Access Token" button:

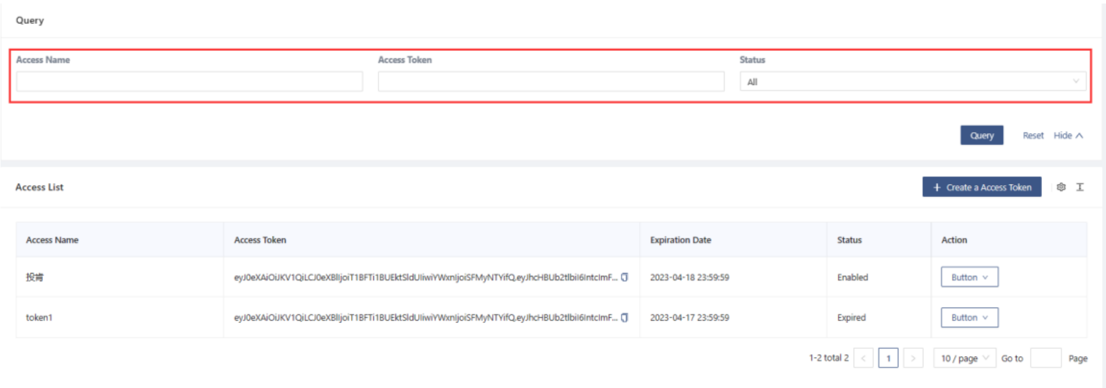


In the "Create an Access Token" dialog box, enter the Access Name and Expiration Date to create the Access Token.



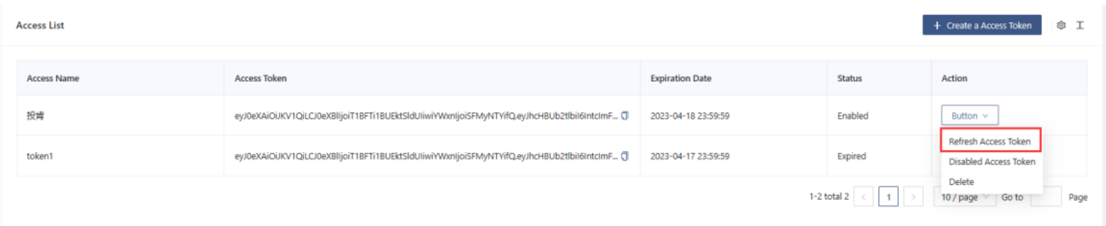
5.1.2 Query

Users can query Access Token information by entering Access Name, Access Token, and Status (All, Enabled, Disabled, Expired).

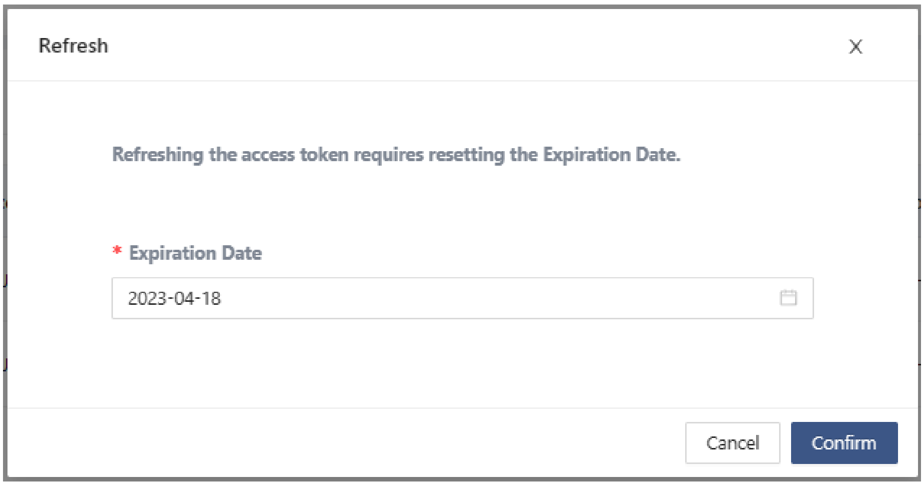


5.1.3 Refresh Access Token

Users can refresh an Access Token by clicking the "Refresh Access Token" button in the Action column:

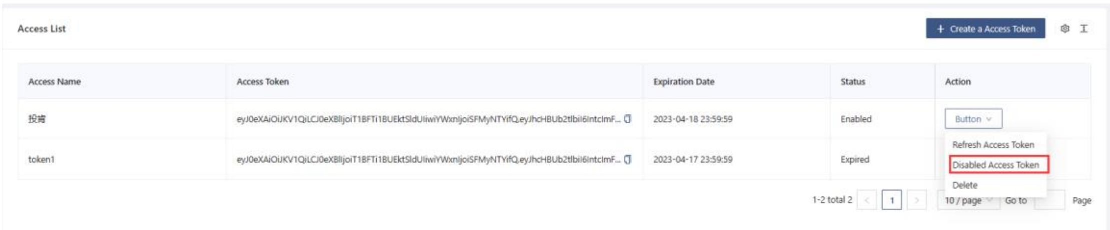


When refreshing, users can set a new expiration date for the Access Token.



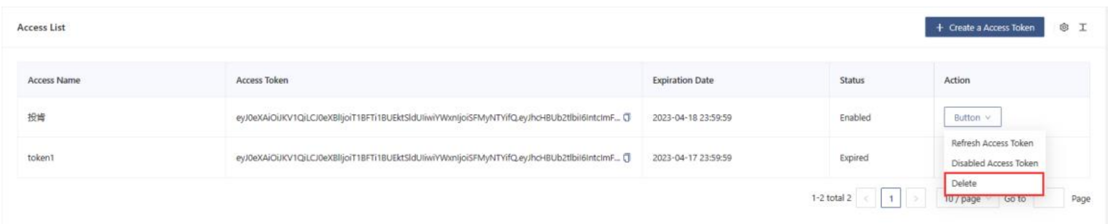
5.1.4 Disabled Access Token

Users can disable an Access Token by clicking the "Disable Access Token" button in the Action column. Disabled Access Tokens cannot access BN.



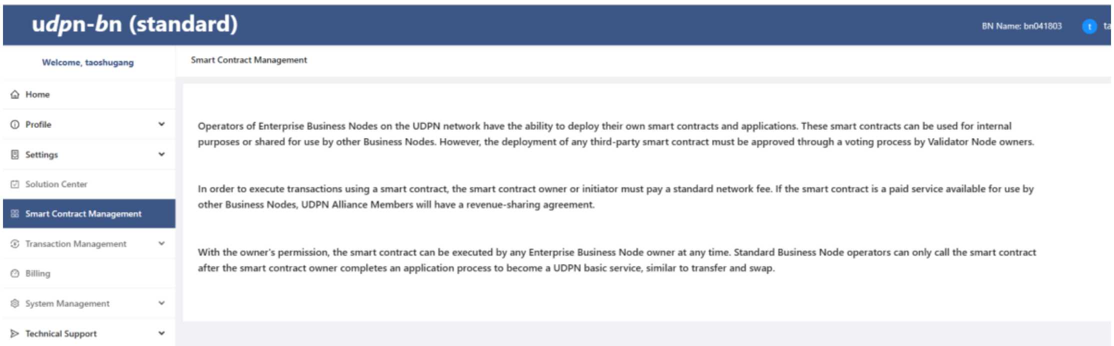
5.1.5 Delete Access Token

Users can delete an Access Token by clicking the "Delete Access Token" button in the Action column:



6. Smart Contract Management

Go to the "Home-> Smart Contract Management" page, where you can view the introduction of smart contract management.

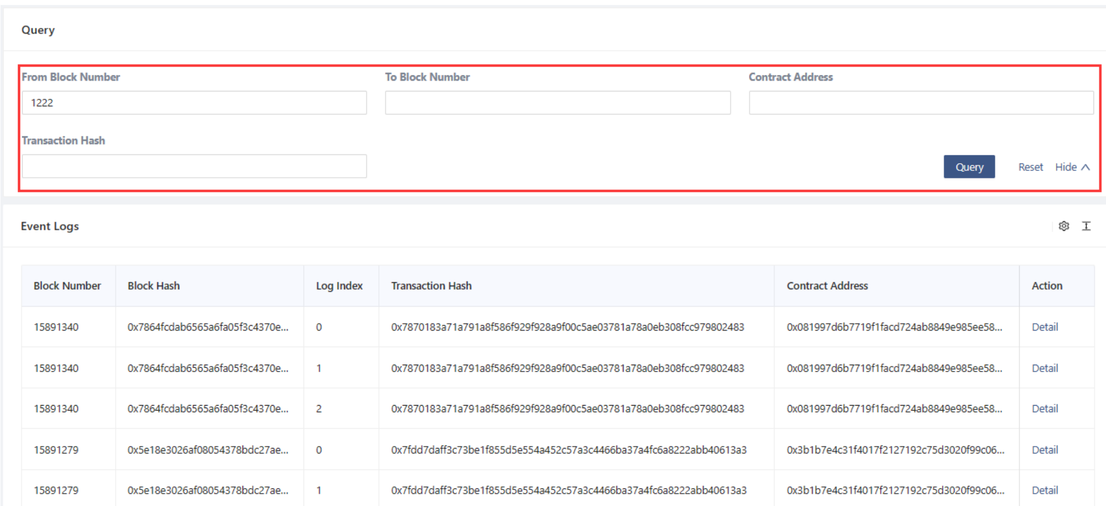


7. Transaction Management

7.1 Event logs

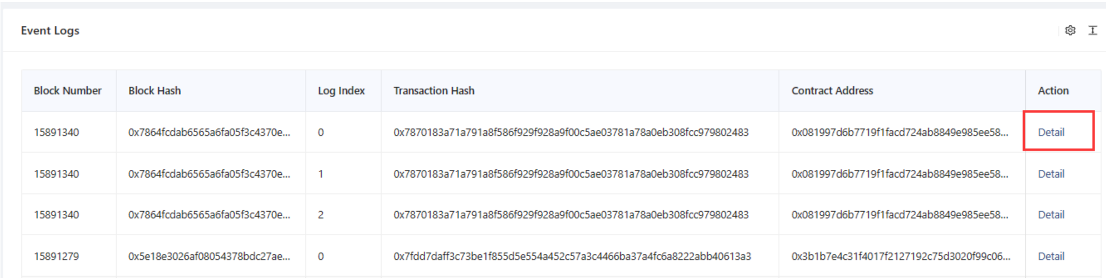
7.1.1 Query

On the "Event Logs" page, users can enter one or more search criteria, including From Block Number, To Block Number, Contract Address, and Transaction Hash. Clicking the "Query" button will return matching event logs.

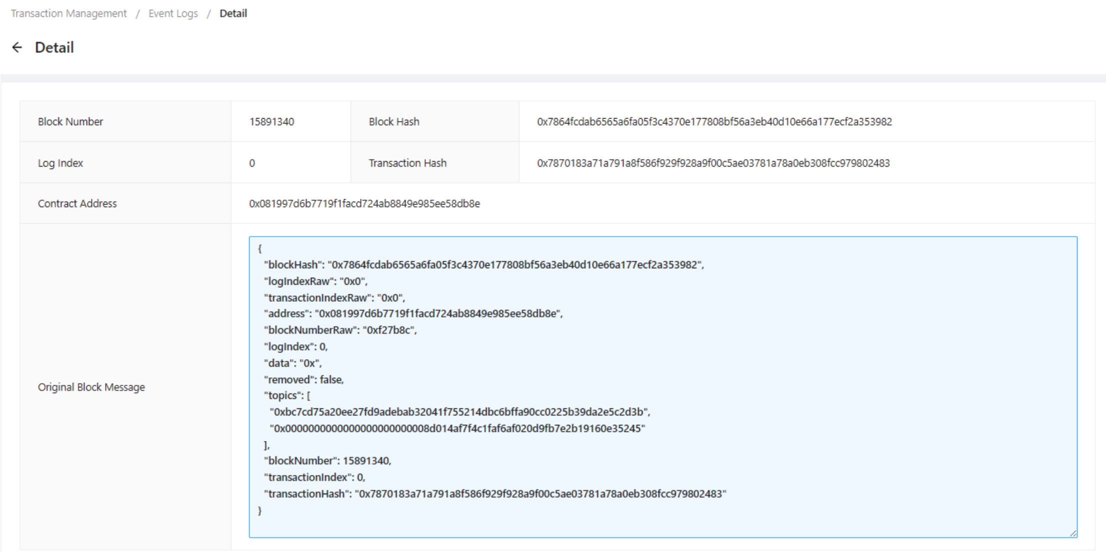


7.1.2 Detail

In the "Event Logs" list, users can select a data record and click the "Detail" button in the action column:



On the "Detail" page, users can view detailed information about the event log.

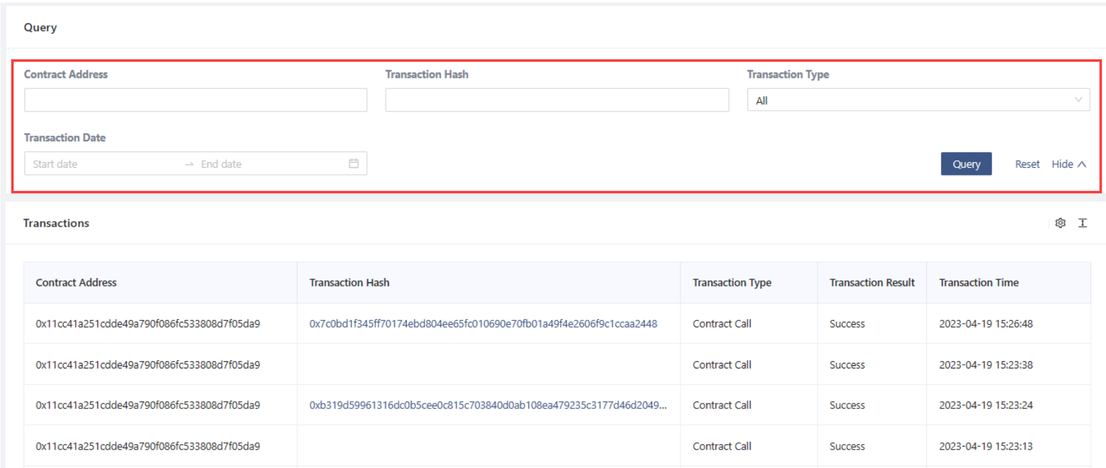


7.2 Transactions

7.2.1 Query

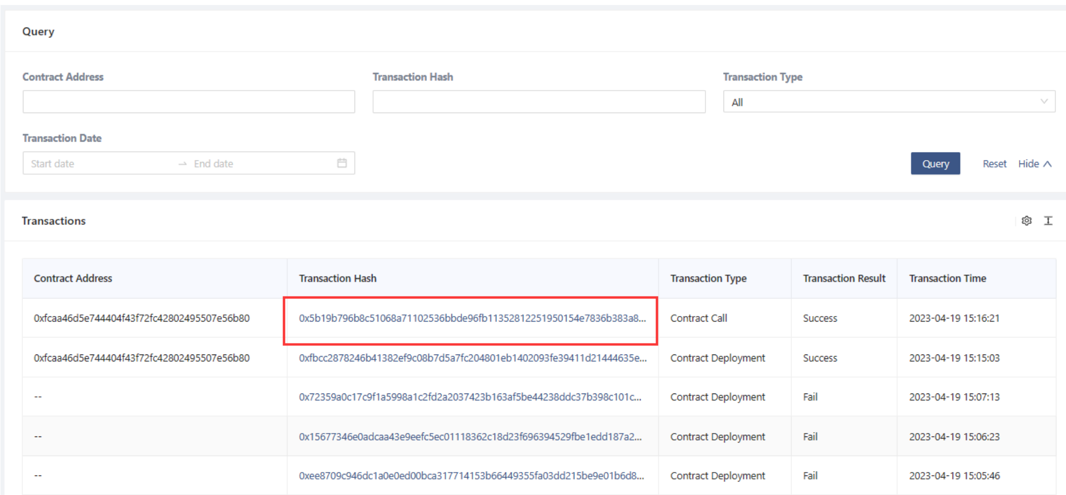
On the "Transactions" page, users can enter one or more search criteria, including Contract Address, Transaction

Hash, Transaction Type, and Transaction Date. Clicking the "Query" button will return matching transactions.



7.2.2 Transaction Receipt

In the "Transactions" list, users can click the "Transaction Hash" to view the transaction receipt associated with that transaction.



← Receipt

Transaction Hash	0x5b19b796b8c51068a71102536bbde96fb11352812251950154e7836b383a8e02	Block Number	361306169
Contract Address	0xfcaa46d5e744404f43f72fc42802495507e56b80	Status	Successful
From	0xce552f976c89e3d3310e37789d0c7e1afda85837		

Block original message


```
{
  "result": {
    "blockHash": "0xb127a63f850661a446292c79c7dd247f86597b7b03e460fbc153ed983700af1e",
    "logsBloom": "0x00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000",
    "transactionIndexRaw": "0x0",
    "transactionIndex": 0,
    "transactionHash": "0x5b19b796b8c51068a71102536bbde96fb11352812251950154e7836b383a8e02",
    "gasUsed": 41804,
    "blockNumberRaw": "0xf27d7f",
    "blockNumber": 15891839,
    "statusOK": true,
    "cumulativeGasUsed": 41804,
    "from": "0xce552f976c89e3d3310e37789d0c7e1afda85837",
    "to": "0xfcaa46d5e744404f43f72fc42802495507e56b80",
    "gasUsedRaw": "0xa34c",
    "logs": [],
    "cumulativeGasUsedRaw": "0xa34c",
    "status": "0x1"
  },
  "transactionReceipt": {
```