Rest API-v1.0 Introduction

1AccountInterface

1.1Make a request for a new wallet

Parameters	Type	Description
success	Boolean	Request results
wallet	Object	Wallet
address	String	Wallet address of SDChain (public key)
secret	String	Private key

Note: The newly acquired wallet is inactive. Activation method: Use <u>Payment interface</u> to transfer 6 SDA from activated account to the new one.

1.2Get account balance

Interface: /V1/accounts/balances/{:address}, GetMethod

Interface parameters:

Parameter s	Туре	Description	
Address	String	User address of SDChain	

Example:

https://rest-beta.sdchain.io/v1/accounts/balances/6 fa LUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5

Results:

Returned result information:

Parameters	Type	Description	
success	Boolean	Request results	
ledger	String	Block height	
balances	Array	Balances, array of objects	
value	String	Number	
currency	String	Sign of token	
counterparty	String	Issuer, empty when the Token is SDA	

2Payment Interfaces

2.1Payment request

Interface: /v1/accounts/payments/{:source_address}?submit=true, POST method

Interface parameters:

Parameters	Type	Description
source_address	String	Payer's SDChain address

Details of Submit parameter:

Parameters	Type	Description
secret	String	Payer's private key of wallet
payment	Object	Payment object
source_account	String	Initiate account
destination_account	String	Target account
amount	String	Amount paid
memos	Array	Payment memo; Array of objects; Option
МетоТуре	String	Memo type, English plus number
MemoData	String	Content of memo

Example:

https://rest-beta.sdchain.io/v1/accounts/payments/6 fa LUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5?submit=true

Submitted data:

Parameters	Туре	Description	
success	Boolean	Request results	
hash	String	Hash of payment transaction	
status_url	String	View address of transaction status	

2.2Get payment information (Compact version)

Interface: /V1/accounts/payments/{:address}/{:Hash}, GetMethod

Interface parameters:

Parameters	rameters Type Description	
address	String	SDChain address of payment user
hash	String	Hash of payment transaction

Example:

https://rest-beta.sdchain.io/v1/accounts/payments/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5/12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E

```
Results:

{
    "hash":
"12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E"
,
    "ledger": "86520",
    "state": "validated",
    "source_account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
    "destination_account": "6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc",
```

Returned result information:

Parameters	Type	Description
success	Boolean	Request results
hash	String	Hash of payment
ledger	String	Block height
state	String	State (Validated : Completed; Pending: Trading)
source_account	String	Payment party
destination_account	String	Payee
direction	String	Type of transaction
amount	String	Transaction amount
timestamp	String	Trading time
fee	String	Fee
memos	Array	Payment memo; Array of object; Option
МетоТуре	String	Memo type; English plus number
MemoData	String	Content of memo

2.3Get payment information (Full version)

Interface: /v1/transactions/{:hash}, GetMethod

Interface:

Parameters	Туре	Description
hash	String	Hash of payment transaction

Example:

https://rest-beta.sdchain.io/v1/transactions/12C323E8DEAF789B790E4837438E5E59E95 CA888979B4BE1311CA4BEDAF7C05E

```
Result:
{
    "transaction": {
        "TransactionType": "Payment",
        "Flags": 2147483648,
        "Sequence": 5,
        "LastLedgerSequence": 86521,
        "Amount": "20000000",
        "Fee": "12",
        "SigningPubKey":
"03DA86711E8A378DB0F8FBAF8CE15B24C21D02D598ED94D15D6AB76237DB48B
85D",
        "TxnSignature":
"3045022100A0C7DA557F7BD8FB7C2E8E67346A9101027D005A67F4FA4D3D61647
C226085C902207948D62EFBDBB845ABA9627144944E04B0D7C5B54FAAA8F5777A
870AE4C57B5B",
        "Account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
        "Destination": "6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc",
        "Memos": [
            {
                "Memo": {
                    "MemoType": "6D656D6F73",
                    "MemoData": "E7ACACE4B880E7AC94E4BAA4E69893",
                    "parsed_memo_type": "memos"
                }
            }
        ],
        "date": 573639342,
        "hash":
"12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E"
        "inLedger": 86520,
        "ledger index": 86520,
        "meta": {
            "TransactionIndex": 0,
            "AffectedNodes": [
                    "ModifiedNode": {
                         "LedgerEntryType": "AccountRoot",
```

```
"PreviousTxnLgrSeq": 86517,
                         "PreviousTxnID":
"BB3D605366CBDD5F199D2DAD609EE72ABBD2270C85BAD7C76CAF718088430D
73",
                         "LedgerIndex":
"35C97BB2890349B177A9DAF1DA5B5631C0F07B6F25059BB0E5136C38606A6395",
                         "PreviousFields": {
                             "Balance": "60000000"
                         },
                         "FinalFields": {
                             "Flags": 0,
                             "Sequence": 1,
                             "OwnerCount": 0,
                             "Balance": "80000000",
                             "Account":
"6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc"
                     }
                },
                     "ModifiedNode": {
                         "LedgerEntryType": "AccountRoot",
                         "PreviousTxnLgrSeq": 86517,
                         "PreviousTxnID":
"BB3D605366CBDD5F199D2DAD609EE72ABBD2270C85BAD7C76CAF718088430D
73",
                         "LedgerIndex":
"C5D69B9AD27CDD3257A4E7F65F386CF44315AFD28B116F1D5EA31F596A8887A1
                         "PreviousFields": {
                             "Sequence": 5,
                             "Balance": "197999952"
                         },
                         "FinalFields": {
                             "Flags": 0,
                             "Sequence": 6,
                             "OwnerCount": 0,
                             "Balance": "1959999940",
                             "Account":
"6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5"
                     }
                 }
            ],
```

Returned result information:

Parameters	Type	Description
success	Boolean	Request results
transaction	Object	Transaction information
TransactionType	String	Transaction type
Flags	Integer	Flag
Sequence	Integer	Transaction count
LastLedgerSequence	Integer	Block count once completed
Integer	String	Quantity
Fee	String	Fee
SigningPubKey	String	Signature
TxnSignature	String	Transaction Signature
Account	String	SDChain addressof sender
Destination	String	SDChain address of receiver
date	Integer	Date (sec, since AD 2000)
hash	String	Hash of payment transaction
inLedger	String	Ledger of transaction
ledger_index	String	ID of ledger
meta	Object	Change of node
validated	Boolean	Status of validation
client_resource_id	String	Transaction ID

2.4Get payment history

Interface: /V1/accounts/payments/{:address}, GetMethod

Interface parameters:

Parameters Type	Description
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Parameters	Type	Description
address	String	Payment-related SDChain address

Submit parameter Details:

Parameters	Type	Description
source_account	String	SDChain address of Payer, optional
destination_account	String	SDChain address of Payee, optional
direction	String	Type of transaction,optional value Incoming: Paid Outgoing:Pay, optional
start_ledger	Integer	Starting block height, optional
end_ledger	Integer	End block height, optional
per_page	Integer	Page quantity, optional
page	Integer	Page number, optional

Example:

]

https://rest-beta.sdchain.io/v1/accounts/payments/6 fa LUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5

"parsed_memo_type": "memos"

"MemoData": "E7ACACE4B880E7AC94E4BAA4E69893",

```
},
            "hash":
"96DFC38DE2841A9AD5E83016D462E45F0D88164E923B30D881FA7A2EEB3395B6"
            "ledger": "86459",
            "source account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
            "destination account": "6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc",
            "amount": "2000",
            "direction": "outgoing",
            "timestamp": "2018-03-06T08:12:41.000Z",
            "fee": "0.000012",
            "memos": [
                    "MemoType": "6D656D6F73",
                     "MemoData": "E7ACACE4B880E7AC94E4BAA4E69893",
                     "parsed memo type": "memos"
                }
            ]
        },
            "hash":
"BB3D605366CBDD5F199D2DAD609EE72ABBD2270C85BAD7C76CAF718088430D
73",
"ledger": "86517",
            "source account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
            "destination account": "6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc",
            "amount": "20",
            "direction": "outgoing",
            "timestamp": "2018-03-06T08:15:33.000Z",
            "fee": "0.000012",
            "Memos": [
                {
                     "MemoType": "6D656D6F73",
                     "MemoData": "E7ACACE4B880E7AC94E4BAA4E69893",
                     "Parsed memo type": "memos"
                }
            ]
        },
            "hash":
"12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E"
            "ledger": "86520",
```

The result returned is the data for the next page, and the result information returned:

Parameter s	Туре	Description	
success	Boolean	Request results	
payments	Array	Payment history, information in the same transaction record	

3 Server Information Interface

3.1 Get default transaction fee

```
Interface: /v1/transaction-fee, GetMethod

Example:

https://rest-beta.sdchain.io/v1/transaction-fee

Result:
{
    "fee": "0.000001",
        "success": true
}
```

Result return parameter:

Parameters	Type	Description		
success	Boolean	Request results		
fee	String	Current default transaction fee		

3.2Get server information

```
Interface: /v1/server, GetMethod
Example:
https://rest-beta.sdchain.io/v1/server

Result:
{
     "sdchaind_server_status": {
          "complete_ledgers": "1-1471300",
          "server_state": "proposing",
          "reserve_base_sda": 6
     },
     "success": true
}
```

Result return parameter:

Parameters	Type	Description
success	Boolean	Request results
sdchaind_server_statu	Object	Current status of SDChain server
complete_ledgers	String	Completed block
server_state	String	Server status
reserve_base_sda	Integer	Least SDA quantity for activation

3.3 Check connection with server

```
Interface: /v1/server/connected, GetMethod
Example:
https://rest-beta.sdchain.io/v1/server/connected
Result:
```

```
"connected": true,
"success": true
}
```

Result return parameter:

Parameters	Type	Description	
success	Boolean	Request results	
connected	Boolean	Status of connection with server	