

Rest API-v1.2.2 Introduction

Revision History

[illegible]

Revision	Description	Date

1.AccountInterface

1.1 Make a request for a new wallet

Interface: /v1/Wallet/new, GetMethod

Example:

<https://rest-beta.sdchain.io/v1/wallet/new>

Results:

```
{
  "wallet": {
    "address": "6wDwUi99cwgiEv8Zb3whNUzqWpyi7Jm6KX",
    "secret": "ss6Vi [REDACTED] Bdr13pDAJ",
  },
  "success": true
}
```

Result return parameter:

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 [Payment interface](#) to transfer 20 SDA from activated account to the new one.

1.2 Get account balance

Interface: /v1/accounts/balances/{:address}, GetMethod

Interface parameters:

Parameters	Type	Description
Address	String	User address of SDChain

Example:

<https://rest-beta.sdchain.io/v1/accounts/balances/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5>

Results:

```
{
  "ledger": 92261,
  "balances": [
    {
      "value": "1959.99994",
      "currency": "SDA",
      "counterparty": ""
    }
  ],
  "success": true
}
```

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 pass is SDA

2.Payment Interfaces

2.1 Payment 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
memo_type	String	Memo type, English plus number
memo_data	String	Content of memo

Example:

<https://rest-beta.sdchain.io/v1/accounts/payments/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5?submit=true>

Submitted data:

```
{
  "secret": "saNYbpu[REDACTED]A3Hhg8kRu",
  "payment": {
    "source_account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
    "destination_account": "6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc",
    "amount": "20",
    "memos": [
      {
        "memo_type": "memos",
        "memo_data": "First deal"
      }
    ]
  }
}
```

Results:

```
{
```

```
"hash":
"12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E"
,
  "status_url":
"https://rest-beta.sdchain.io/v1/accounts/payments/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5/12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E",
  "success": true
}
Result return parameter:
```

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

2.2 Get payment information

Interface: /v1/accounts/payments/{:address}/{:Hash}, GetMethod

Interface parameters:

Parameters	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",
}
```

```

    "amount": "20",
    "direction": "outgoing",
    "timestamp": "2018-03-06T08:15:42.000Z",
    "fee": "0.000012",
    "memos": [
      {
        "Memo type": "6D656D6F73",
        "Memo data": "E7ACACE4B880E7AC94E4BAA4E69893",
        "parsed_memo_type": "memos"
      }
    ],
    "success": true
  }

```

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
memo_type	String	Memo type; English plus number
memo_data	String	Content of memo

2.3 Get payment history

Interface: /v1/accounts/payments/{:address}, GetMethod

Interface parameters:

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/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5>

Results:

```
{
  "payments": [
    {
      "hash":
"D11971630D8038BFFA69A5538C5C1DCF906E95008C1612CF597C5DAA19A30938",
      "ledger": "86224",
      "source_account": "6Hb9CJAWyB46j91VRWn9rDkukG4bwdtyTh",
      "destination_account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
      "amount": "2000",
      "direction": "incoming",
      "timestamp": "2018-03-06T08:01:00.000Z",
      "fee": "0.000012",
      "memos": [
        {
          "memo_type": "6D656D6F73",
          "memo_data": "E7ACACE4B880E7AC94E4BAA4E69893",
          "parsed_memo_type": "memos"
        }
      ]
    },
    {
```

```
    "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": [
            {
                "memo_type": "6D656D6F73",
                "memo_data": "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": [
            {
                "memo_type": "6D656D6F73",
                "memo_data": "E7ACACE4B880E7AC94E4BAA4E69893",
                "Parsed_memo_type": "memos"
            }
        ]
    },
    {
```

```
        "hash":
        "12C323E8DEAF789B790E4837438E5E59E95CA888979B4BE1311CA4BEDAF7C05E"
    ,
```

```
        "ledger": "86520",
        "source_account": "6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5",
        "destination_account": "6PrXdWVoXzmGCmi56wTFTC3e6xezLWh2dc",
```



```

    "amount": "20",
    "direction": "outgoing",
    "timestamp": "2018-03-06T08:15:42.000Z",
    "fee": "0.000012",
    "memos": [
      {
        "memo_type": "6D656D6F73",
        "memo_data": "E7ACACE4B880E7AC94E4BAA4E69893",
        "parsed_memo_type": "memos"
      }
    ]
  },
  "success": true
}

```

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

Parameters	Type	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

Parameters	Type	Description
fee	String	Current default transaction fee

3.2 Get 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_status	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

4. Get Order Interface

4.1 Get order list

Interface: /v1/accounts/orders/{:address}, GetMethod

Parameter Interface:

Parameters	Type	Description
address	String	Payment-related SDChain addresses

Details of submitted parameter:

Parameters	Type	Description
marker	String	Start position in the response page.
limit	String	(Default is 200) The maximum result of each response. Can't be less than 10. Can't be more than 400
ledger	String	Block height (taken from the previous page's return result)

Example:

<https://rest-beta.sdchain.io/v1/accounts/orders/6GiohV7XVhabbtv1DfKjWEyikeymiDSNx>

Result:

```
{
  "ledger": 50047,
  "validated": true,
  "orders": [
    {
      "type": "buy",
      "taker_gets": {
```

```

        "currency": "CNY",
        "value": "5",
        "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "taker_pays": {
        "currency": "DDD",
        "value": "1",
        "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "sequence": 54,
    "passive": false
},
{
    "type": "sell",
    "taker_gets": {
        "currency": "DDD",
        "value": "3",
        "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "taker_pays": {
        "currency": "SDA",
        "value": "12",
        "counterparty": ""
    },
    "sequence": 59,
    "passive": false
}
],
"success": true
}

```

Result return parameter:

Parameters	Type	Description
success	Boolean	Request results
validated	Boolean	Hash of payment
ledger	Integer	Block height
order	Object	Order information
type	String	Type:sell, buy
taker_pays	Object	The amount the other party should spend
currency	String	Token name
counterparty	String	Publisher

Parameters	Type	Description
value	String	Value
taker_gets	Object	The amount the other party should get
currency	String	Token name
counterparty	String	Publisher
value	String	Value

4.2 Submit order

Interface: `/v1/accounts/orders/{:address}`, POSTMethod

Interface parameter:

Parameters	Type	Description
address	String	SDChain address

Details of submitted parameter:

Parameters	Type	Description
secret	String	Private Key
orders	Object	Order Information
type	String	sell; buy
taker_pays	Object	The amount the other party should spend
currency	String	Token Name
counterparty	String	Publisher
value	String	Value
taker_gets	Object	The amount the other party should get
currency	String	Token Name
counterparty	String	Publisher
value	String	Value

Example:

<https://rest-beta.sdchain.io/v1/accounts/orders/6GlohV7XVhabbtv1DfKjWEyikeymiDSNx>

Submitted data:

```
{
  "secret": "spoWzgEy9****1stWp2vsC",
  "order": {
    "type": "buy",
    "taker_pays": {
      "currency": "DDD",
      "counterparty":
"6UPd52jHtu1d88nc3S3WeroACFQpKfybhU",
      "value": "1"
    },
    "taker_gets": {
      "currency": "SDA",
      "counterparty": "",
      "value": "4"
    }
  }
}
```

Result:

```
{
  "order": {
    "account": "6PKbrbSLKRmgb5nqqGP3hxWBj6o2ufZrTt",
    "taker_gets": {
      "currency": "SDA",
      "value": "4",
      "counterparty": ""
    },
    "taker_pays": {
      "currency": "DDD",
      "value": "1",
      "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "fee": "0.0001",
    "type": "buy",
    "sequence": 7
  },
  "hash":
"C6C62BE6921D97857382DF956D2C227E9CD1022D1DB08EEB9193D6F1A8DB48CF",
  "ledger": "49947",
  "state": "pending",
  "success": true
}
```

Details of submitted parameter:

Parameters	Type	Description
success	Boolean	Request results
hash	String	Hash of payment
ledger	Integer	Block height
state	String	Transaction State
order	Object	Order Information
Fee	String	Fee
sequence	Integer	Order Sequence (for cancelling order)

4.3 Cancel order

Interface: /v1/accounts/orders/{:address}/{: sequence}, DELETE Method

Example:

<https://rest-beta.sdchain.io/v1/accounts/orders/6GiohV7XVhabbtv1DfKjWEyikeymiDSNx/59>

Interface parameter:

Parameters	Type	Description
address	String	SDChain address
sequence	Integer	Order Sequence

Details of submitted parameter:

Parameters	Type	Description
secret	String	Private Key

Submitted data:

```
{
  "secret": "spoWzgEy9****1stWp2vsC",
}
```

Result:

```
{
```

```

    "order": {
      "account": "6GiohV7XVhabbtv1DfKjWEyikeyimiDSNx",
      "fee": "0.0001",
      "offer_sequence": 54,
      "sequence": 60
    },
    "hash":
"02219A6CEA239E0EA55BD26E4FD5FFD29E9BD5D76E0751A2A8A71243955F4D16",
    "ledger": "50139",
    "state": "pending",
    "success": true
  }
}

```

Returned result information:

Parameters	Type	Description
success	Boolean	Request results
hash	String	Transaction Hash
ledger	Integer	Block Height
state	String	Transaction State
order	Object	Order Information
account	String	SDChainAddress
fee	String	Fee
offer_sequence	Integer	Sequence of Cancelled Transaction
sequence	Integer	Sequence of Current Transaction

4.4 Check details of order

Interface: `/v1/accounts/orders/{:address}/{:hash}`, `GetMethod`

Interface parameter:

Parameters	Type	Description
address	String	SDChain Address
hash	String	Transaction Hash

Example:

<https://rest-beta.sdchain.io/v1/accounts/orders/6GlohV7XVhabbtv1DfKjWEyikeymiDSNx/3ABE9B68EB3988E8E39CA5E11849FBBBDD1B8897984FA6936043AEA1873A4C71>

Submitted data:

Result:

```
{
  "hash":
"3ABE9B68EB3988E8E39CA5E11849FBBBDD1B8897984FA6936043AEA1873A4C71",
  "ledger": 50254,
  "validated": true,
  "timestamp": "2018-05-08T07:25:40.000Z",
  "fee": "0.0001",
  "action": "order_create",
  "type": "buy",
  "direction": "outgoing",
  "order": {
    "account": "6GlohV7XVhabbtv1DfKjWEyikeymiDSNx",
    "taker_pays": {
      "currency": "DDD",
      "value": "1",
      "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "taker_gets": {
      "currency": "SDA",
      "value": "4",
      "counterparty": ""
    },
    "passive": false,
    "immediate_or_cancel": false,
    "fill_or_kill": false,
    "type": "sell",
    "sequence": 61
  },
  "balance_changes": [
    {
      "counterparty": "",
      "currency": "SDA",
      "value": "-0.0001"
    }
  ],
  "order_changes": [
    {
      "taker_pays": {
```

```

        "currency": "SDA",
        "counterparty": "",
        "value": "0"
    },
    "taker_gets": {
        "currency": "DDD",
        "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU",
        "value": "0"
    },
    "sequence": 59,
    "status": "canceled"
},
{
    "taker_pays": {
        "currency": "DDD",
        "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU",
        "value": "1"
    },
    "taker_gets": {
        "currency": "SDA",
        "counterparty": "",
        "value": "4"
    },
    "sequence": 61,
    "status": "created"
}
],
"success": true
}

```

Result return parameter:

Parameters	Type	Description
success	Boolean	Request result
hash	String	Transaction Hash
ledger	String	Block Height
state	String	Transaction State
orders	Object	Order Information
Account	String	SDChain Address
sequence	Integer	Order Sequence
type	String	sell; buy
taker_pays	Object	The amount the other party should spend
currency	String	Token Name

Parameters	Type	Description
counterparty	String	Publisher
value	String	Value
taker_gets	Object	The amount the other party should get
currency	String	Token Name
counterparty	String	Publisher
balance_changes	Array	Balance Change
order_changes	Array	Order Change

4.5 Acquire current list of order

Interface: /v1/order_book/{:base}/{:counter}, GetMethod

Interface parameter:

Parameters	Type	Description
base	String	Base Token (currency+counterparty or SDA)
counter	String	Counter Token (currency counterparty or SDA)

Details of submitted parameter:

Parameters	Type	Description
limit	String	(Default is 200) The maximum result of each response. Can't be less than 10. Can't be more than 400

Example:

https://rest-beta.sdchain.io/v1/order_book/SDA/CNY+6UPd52jHtu1d88nc3S3WeroACFQpKfybhU?limit=2

Result:

```
{
  "ledger": 50047,
  "validated": true,
  "orders": [
    {
      "type": "buy",
```

```

    "taker_gets": {
      "currency": "CNY",
      "value": "5",
      "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "taker_pays": {
      "currency": "DDD",
      "value": "1",
      "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "sequence": 54,
    "passive": false
  },
  {
    "type": "sell",
    "taker_gets": {
      "currency": "DDD",
      "value": "3",
      "counterparty": "6UPd52jHtu1d88nc3S3WeroACFQpKfybhU"
    },
    "taker_pays": {
      "currency": "SDA",
      "value": "12",
      "counterparty": ""
    },
    "sequence": 59,
    "passive": false
  }
],
"success": true
}

```

Result return parameter:

Parameters	Type	Description
success	Boolean	Request Results
order_book	String	Transaction pair
ledger	Integer	Block height
validated	Boolean	Validated or not
bids	Array	Bid information
price	Object	Price (amount type)
taker_gets_total	Object	The amount the other party should get (amount type)

Parameters	Type	Description
taker_pays_total	Object	The amount the other party should spend (amount type)
order_maker	String	Address of Order Maker
asks	Array	Asks information

5. Interface of Transaction History

5.1 Get transaction history

Interface: /v1/accounts/transactions/{:address}, GetMethod

Interface Parameter:

Parameters	Type	Description
address	String	Payment-related SDChain addresses

Details of submitted parameter:

Parameters	Type	Description
type	String	Transaction Type : payment,offercreate,offercancel,trustset, Multiple can be provided separated by ","
start_ledger	Integer	Starting block height, optional
end_ledger	Integer	End block height, optional
per_page	Integer	Per page quantity, optional
page	Integer	Page number, optional

Example:

https://rest-beta.sdchain.io/v1/accounts/transactions/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5?type=payment,offercreate&per_page=2&page=1

Result:

```
{
  "transactions": [
    {
      "hash":
"BB4839ABD6484C4AC814F1C3AF651A1FE5808703BA9D6901CC2E14EF677784D7"
    },
  ]
}
```

```

    "ledger": "1125346",
    "state": "validated",
    "date": 577364330,
    "type": "out",
    "fee": "0.0001",
    "result": "tesSUCCESS",
    "counterparty": "6JmTAjeQpXUMZACgGRNwvUG9EMSZmcBXU6",
    "amount": {
      "currency": "SDA",
      "value": "0.02",
      "issuer": ""
    },
    "effects": [],
    "memos": [
      {
        "memo_data": "546869732069732061206D656D6F21",
        "memo_type": "6D656D6F"
      }
    ]
  },
  {
    "hash":
"81F36B67F23DF5E4D651EBA39537239E02A1F78534A48F05C010C4CF852F1768",
    "ledger": "1125346",
    "state": "validated",
    "date": 577364330,
    "type": "out",
    "fee": "0.0001",
    "result": "tesSUCCESS",
    "counterparty": "6JmTAjeQpXUMZACgGRNwvUG9EMSZmcBXU6",
    "amount": {
      "currency": "SDA",
      "value": "0.02",
      "issuer": ""
    },
    "effects": []
  }
],
"success": true
}

```

Information of returned results:

Parameters	Type	Description
success	Boolean	Request results

Parameters	Type	Description
transactions	Array	Transaction object array
hash	String	Transaction hash
ledger	String	Block height
date	String	Payment amount
type	String	Type
fee	String	Fee
result	String	Result
price	String	Price (type=offercreate)
pair	String	Pair (type=offercreate)
seq	Integer	Order number (type=offercreate)
counterparty	String	Address of the other party (type=payment)
amount	Object	Amount object
currency	String	Currency
value	String	Value
counterparty	String	Counterparty
effects	Array	Effect
effect	String	Effect type
seq	Integer	Order number
price	String	Price
pair	String	Pair
amount	Object	Quantity object
memos	Array	Memo

5.1 Get transaction detail

Interface: `/v1/accounts/transactions/{:address}/{:hash}`, `GetMethod`

Interface Parameter:

Parameters	Type	Description
address	String	Payment-related SDChain addresses
hash	String	Hash of payment transaction

Example:

https://rest-beta.sdchain.io/v1/accounts/transactions/6faLUhmp9gNgS9jXS3rAWbg8hFfi9PbWH5/BB4839ABD6484C4AC814F1C3AF651A1FE5808703BA9D6901CC2E14EF677784D7

Result:

```
{
  "transaction": {
    "hash":
"BB4839ABD6484C4AC814F1C3AF651A1FE5808703BA9D6901CC2E14EF677784D7",
    "ledger": "1125346",
    "state": "validated",
    "date": "2018-04-18T10:58:50.000Z",
    "type": "outgoing",
    "fee": "0.0001",
    "result": "tesSUCCESS",
    "counterparty": "6JmTAjeQpXUMZACgGRNwvUG9EMSZmcBXU6",
    "amount": {
      "currency": "SDA",
      "value": "0.02",
      "issuer": ""
    },
    },
    "effects": [],
    "memos": [
      {
        "memo_type": "6D656D6F",
        "memo_data": "546869732069732061206D656D6F21",
        "parsed_memo_type": "memo"
      }
    ]
  },
  "success": true
}
```

Information of returned results:

Parameters		Type	Description
success		Boolean	Request results
transaction		Object	Transaction object
	hash	String	Transaction hash
	ledger	String	Block height
	date	String	Payment amount
	type	String	Type

Parameters		Type	Description
	fee	String	Fee
	result	String	Result
	price	String	Price (type=offercreate)
	pair	String	Pair (type=offercreate)
	seq	Integer	Order number (type=offercreate)
	counterparty	String	Address of the other party (type=payment)
	amount	Object	Amount object
	currency	String	Currency
	value	String	Value
	counterparty	String	Counterparty
	effects	Array	Effect
	effect	String	Effect type
	seq	Integer	Order number
	price	String	Price
	pair	String	Pair
	amount	Object	Quantity object
	memos	Array	Memo