



Spot Ledger API Specifications

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1. Overview

Welcome to the Abaxx Spot Ledger API documentation page.

This document provides technical guidance for integrating with the optional Ledger module of the Abaxx Spot platform.

2. Version History

Version	Date	Comment
1.0	24 March 2026	Ledger API content repackaged into the Abaxx Spot specification template.
1.1	04 th June 2026	Added Target Entity and Target Entity ID fields. Updated "Date To" filtering to use ≤ instead of <, including results on the specified end date

3. Abaxx Spot Ledger

Ledger is an optional module of the system.

If enabled, the system maintains asset balances and validates whether order entry accounts have sufficient asset balances to fulfil settlement obligations.

Contact us for more details.

4. Sandbox Configurations

API	Endpoint
Participants Ledger WS	wss://api-gateway.uat.exberry-uat.io
Participants Ledger REST	https://api-gateway.uat.exberry-uat.io
Admin REST	https://admin-api-uat.rnd.exberry-rnd.io

5. Account Balance

The API allows retrieval of a snapshot of the current balance, together with **updates** when changes occur.

qualifier: v1/exchange.ledger/accountBalance

Request

Parameter	Type	Description
accountId	Int	Trading account id. The system responds with the ledger account balances associated with this trading account.

Response

List of balances

Parameter	Type	Description
assetId	Int	Asset Id
assetName	String	Asset name
availableBalance	Decimal	Available balance
reservedBalance	Decimal	Reserved balance used for active orders or pending transactions
totalBalance	Decimal	Total balance = availableBalance + reservedBalance
transactionUnits	Decimal	Asset transaction units

Error Codes

Code	Message
1	Exchange is unavailable
2	Stream disconnected
1001	Wrong [FieldName] format
1007	Invalid session
1008	Insufficient permissions
1032	Account not found
2000	Ledger account not configured for selected trading account

Sample Request

```
{
  "q": "v1/exchange.ledger/accountBalance",
  "sid": 53,
  "d": {
    "accountId": "37"
  }
}
```

6. Transaction Requests

Transaction Requests allow the system to capture deposits and withdrawals through the workflow below.

Transaction Requests can be created by both MP and Trader.

6.1 createTransactionRequest

This API is used to create a new Transaction Request.

qualifier: v1/exchange.ledger/createTransactionRequest

Request

Parameter	Type	Description
type	eNum	Transaction Type. Allowed values: Deposit, Withdrawal
ledgerAccountId	Int	Ledger Account
assetId	Int	Asset
amount	Decimal	Transaction amount
description optional	String	Description

instructionDetailsId optional	uuid	Instruction Details attachment id. Conditionally required / not allowed, see matrix below.
assetDetailsId optional	uuid	Asset Details attachment id. Conditionally required / not allowed, see matrix below.

instructionDetailsId / assetDetailsId

Asset Type	Transaction Request Type	instructionDetailsId	assetDetailsId
Cash	Deposit	Optional	Not allowed
Cash	Withdrawal	Not allowed	Not allowed
!= Cash	Deposit	Required	Required
!= Cash	Withdrawal	Required	Not allowed

Response

Parameter	Type	Description
id	Int	Transaction request id, system generated
status	String	"Instructed"

Error Codes

Code	Message
1	Exchange is unavailable
100	Missing or invalid parameter: [FieldName]
1007	Invalid session
1008	Insufficient permissions
1032	Ledger Account not found

Sample Request

```
{
  "q": "v1/exchange.ledger/createTransactionRequest",
  "sid": 54,
  "d": {
    "amount": "1",
    "type": "Deposit",
    "assetId": "10",
    "instructionDetailsId": "2eb83b2f-1118-4ecf-87ee-b18d639ff07f",
    "assetDetailsId": "080f8c19-55e6-42fe-a211-735425f17adb",
    "ledgerAccountId": "36"
  }
}
```

6.2 cancelTransactionRequest

This API is used to cancel an existing Transaction Request. Cancellations can be done only when the request is in Instructed status.

qualifier: v1/exchange.ledger/cancelTransactionRequest

Request

Parameter	Type	Description
id	Int	Transaction request Id

Response

No response body

Error Codes

Code	Message
1	Exchange is unavailable
100	Missing or invalid parameter: [FieldName]
101	Transaction Request not found
1007	Invalid session
1008	Insufficient permissions
1032	Transaction Request not found

Sample Request

```
{
  "q": "v1/exchange.ledger/cancelTransactionRequest",
  "sid": 56,
  "d": {
    "id": 440
  }
}
```

7. REST API Authentication

Uploading and retrieving files from the system is performed via REST API.

Like the createSession API, authentication for this REST API can be done using one of the following methods:

Trader authentication using an Auth0 bearer token

MP / MP Group authentication using a digital signature as bearer token

When authenticating as an MP, the bearer token must be generated in the following format:

apiKey|<base64(<apiKey>|<signature>|<epoch_timestamp>)>

Notes:

The Base64-encoded value must be URL-safe

Signature specification is defined in createSession API

Sample base64 token

```
apiKey|ZWU2OTI1MGQ0tNzk3Yi00MDFjLTgyMGltMDQzNjAyNzEyYmlzfDJIMTJkNDhjZTRhMDczYTY4NmNiMjE4ZTM4OTM4YmY3MzZmYWZiZTkzYzBIYWMONtG4MWU0ODkyYzY3NzVhZWJ8MTc3MTM5OTYzMzc4NQ
```

7.1 uploadTransactionDetails

This API allows users to upload files and receive UUIDs to attach in createTransactionRequest.

Note: This is a REST API.

[POST][Participants Ledger REST]/v1/exchange.ledger/uploadTransactionDetails

Request

Upload the file using a multipart/form-data POST request.

Allowed filetypes: CSV, TXT, PDF, XLSX/XLS, DOCX/DOC, JPG, JPEG, PNG

Response

Parameter	Type	Description
transactionDetailsId	uuid	System generated Transaction Details Id

Error Codes

Code	Message
1	Exchange is unavailable
100	Missing or invalid parameter: [FieldName]; File is empty; File size should be less than 10 MB; Allowed file types: [list]; Transaction details upload is not allowed

Sample Request

```
curl -location 'https://api-gateway-master.rnd.exberry-rnd.io/v1/exchange.ledger/uploadTransactionDetails' \
  -header 'Authorization: Bearer .....' \
  -form 'file=@"/CD/file1.csv"'
```

7.2 getTransactionDetailsUrl

This API allows users to get download links for files uploaded using uploadTransactionDetails by providing the relevant UUID.

Note: This is a REST API.

[POST]{Participants Ledger REST}/v1/exchange.ledger/getTransactionDetailsUrl

Request

Parameter	Type	Description
transactionDetailsId	uuid	Transaction Details Id of the file

Response

Parameter	Type	Description
transactionDetailsUrl	String	URL to download the file

Error Codes

Code	Message
1	Exchange is unavailable
100	Missing or invalid parameter: [FieldName]

Sample Request

```
curl -location 'https://api-gateway-master.rnd.exberry-rnd.io/v1/exchange.ledger/getTransactionDetailsUrl' \
  -header 'Content-Type: application/json' \
  -header 'Authorization: ..... ' \
  -data '{
```

```
"transactionDetailsId": "a92fa0a1-dd0a-408d-a253-06607c1016a2"
}
```

8. Transfers

The Ledger module supports both Alleged Transfers and Cash Transfers.

8.1 Alleged Transfers

Alleged Transfers allow counterparties of a transfer to report the transfer to the exchange.

Upon matching the alleged transfer details, the system settles the transfer between the counterparties.

Alleged Transfers can be created by both MP and Trader.

8.1.1 createAllegedTransfer

This API allows creating alleged transfers.

qualifier: v1/exchange.ledger/createAllegedTransfer

Request

Parameter	Type	Description
type	eNum	Transfer Type. Allowed values: DvP, RvP, FoP, FoP_Receive, DvD
ledgerAccountId	Int	Ledger Account Id of the reporting MP
counterpartyMpld	Int	Counterparty MP Id
sendingAssets optional	[] Asset Objects	Array of Asset Objects representing the assets sent to the counterparty
receivingAssets optional	[] Asset Objects	Array of Asset Objects representing the assets received from the counterparty
externalId	String	External Id. Values cannot be reused for the same MP when another Instructed Alleged Transfer exists.

Asset Object

Parameter	Type	Description
assetId	Int	Asset Id
amount	Decimal	Amount of the asset in transaction units

Response

Parameter	Type	Description
allegedTransferId	Int	Alleged Transfer Id
status	String	Instructed

Error Codes

Code	Message
1	Exchange is unavailable

102	Trading is not allowed
1000	Missing or invalid parameter: [FieldName]
1002	externalId is already in use
1007	Invalid session
1008	Insufficient permissions
1010	counterpartyMpld not found
1012	Minimum amount for [assetName] is [Asset.minTransfer]
1014	Amount of [assetName] should be an increment of [transferIncrement]
1020	Unsupported counterparty. Both sides cannot have the same ledgerAccountId
1032	Account not found
2000	Insufficient balance: [Amt][TransactionUnits] of [AssetName] are missing

Sample Request

```
{
  "q": "v1/exchange.ledger/createAllegedTransfer",
  "sid": 55,
  "d": {
    "type": "DvD",
    "externalId": "12341353",
    "counterpartyMpld": "9",
    "sendingAssets": [
      {
        "assetId": "10",
        "amount": "1"
      }
    ],
    "receivingAssets": [
      {
        "assetId": "97",
        "amount": "1000000"
      },
      {
        "assetId": "44",
        "amount": "100000"
      }
    ],
    "ledgerAccountId": "36"
  }
}
```

8.1.2 cancelAllegedTransfer

This API allows cancellation of alleged transfers.

qualifier: v1/exchange.ledger/cancelAllegedTransfer

Request

Parameter	Type	Description
allegedTransferId	Int	Alleged Transfer Id

Response

No response body

Error Codes

Code	Message
1	Exchange is unavailable
100	Missing or invalid parameter: [FieldName]
101	[FieldName] not found
102	Trading is not allowed
1007	Invalid session
1008	Insufficient permissions
1100	Alleged transfer not found

Sample Request

```
{
  "q": "v1/exchange.ledger/cancelAllegedTransfer",
  "sid": 57,
  "d": {
    "allegedTransferId": 311
  }
}
```

8.2 Cash Transfers

Cash Transfers can be created by both MP and Trader.

In case of MP, both Sender Account and Receiver Account should belong to the MP.

In case of Trader, the trader should be authorized for both Sender Account and Receiver Account.

Cash Transfers settle immediately without going through a workflow.

8.2.1 createCashTransfer

This API allows creating cash transfers.

qualifier: v1/exchange.ledger/createCashTransfer

Request

Parameter	Type	Description
type	eNum	Transfer Type. Allowed values: Cash
senderAccountId	Int	Ledger Account of the sender
sendingAssets optional	[] Asset Objects	Array of Asset Objects. Can contain only 1 object.
receiverAccountId	Int	Ledger Account of the receiver
description optional	String	Description

Asset Object

Parameter	Type	Description
assetId	Int	Asset Id

amount	Decimal	Amount of the asset in transaction units
--------	---------	--

Response

Parameter	Type	Description
senderAccountId	Int	Same as the request
receiverAccountId	Int	Same as the request
transactionIds	[]Int	Transaction ids created by the transfer

Error Codes

Code	Message
1	Exchange is unavailable
100	Missing or invalid parameter: [FieldName]
101	Minimum [FieldName] is [Asset.minTransfer]; [Field] should be an increment of [transferIncrement]
102	Trading is not allowed
200	Insufficient balance: [Amt][TransactionUnits] of [AssetName] are missing
1007	Invalid session
1008	Insufficient permissions
1020	Unsupported counterparty. Both sides cannot have the same ledgerAccountId

Sample Request

```
{
  "q": "v1/exchange.ledger/createCashTransfer",
  "sid": 58,
  "d": {
    "type": "Cash",
    "senderAccountId": "36",
    "senderAssets": [
      {
        "assetId": "44",
        "amount": "105"
      }
    ],
    "receiverAccountId": "826",
    "description": "Transfer 242"
  }
}
```

9. Reporting

The following reporting APIs are available for Ledger data retrieval.

9.1 Holdings Summary

Holdings Summary API is used to retrieve a list of holdings.

qualifier: v1/exchange.reporting/mp/holdingsSummary

Request

Parameter	Type	Description
groupBy optional	eNum	Options: MP, Account. Grouping is always by asset and EOD date, plus the selected option.
eodDateFrom optional	Date	Search for holdings where EOD date $\geq$ eodDateFrom. Format: YYYY-MM-DD
eodDateTo optional	Date	Search for holdings where EOD date $<$ eodDateTo. Format: YYYY-MM-DD
mpId optional	int	Search by MP Id
ledgerAccountId optional	int	Search by ledger account id
assetId optional	int	Search by asset Id
limit optional	int	Records per page. Default = 25; Max = 100
offset optional	int	Record offset. Default = 0

Response

Holdings Summary response provides a list of all holdings for the requested dates.

Field	Description
eodDate	Date of EOD when holding was stored. Format: YYYY-MM-DD
mpName optional	MP Name; not included if groupBy is empty
instrumentId	Instrument identifier
ledgerAccountName optional	Ledger account name; not included if groupBy = MP or empty
assetName	Asset name
eodHoldings	If groupBy = MP: Sum of all accounts totalBalance per EOD date and Asset & MP. If groupBy = Account: Total balance per account per asset per EOD date. Else: Sum of all accounts totalBalance for all MPs per EOD date and Asset.
transactionUnits	Asset transaction units as at EOD date

Error Codes

Code	Message
1	Temporary failure to retrieve this data
1001	Wrong [FieldName] format; eodDateTo must be $\geq$ eodDateFrom
1007	Invalid session
1008	Insufficient permissions

Sample Request

```
{
  "q": "v1/exchange.reporting/mp/holdingsSummary",
  "sid": 100,
  "d": {
    "eodDateFrom": "2025-12-01",
    "eodDateTo": "2025-12-31",
    "limit": 10
  }
}
```

```
}
}
```

9.2 Transactions

Transactions API is used to retrieve a list of Transactions.
qualifier: v1/exchange.reporting/mp/transactions

Request

Parameter	Type	Description
dateFrom optional	DateTime	Search for transactions where Timestamp $\geq$ dateFrom. Format: YYYY-MM-DDThh:mm:ss[.SSS]
dateTo optional	DateTime	Search for transactions where Timestamp $<$ dateTo. Format: YYYY-MM-DDThh:mm:ss[.SSS]
assetId optional	int	Search by assetId
mpId optional	int	Search by mpId
ledgerAccountId optional	int	Search by ledger account id
transactionId optional	int	Search by transactionId
transactionTypes optional	eNum[]	Any combination of: Deposit, Withdrawal, Adjustment, Trade, DvP, RvP, FoP, CashTransfer, DvD. Empty = all except ReserveBalance and ReleaseBalance.
limit optional	int	Records per page. Default = 25; Max = 100
offset optional	int	Record offset. Default = 0

Response

Transactions response provides a close to real-time list of all transactions for the requested period.

Field	Description
timestamp	Timestamp of the transaction. Format: YYYY-MM-DDThh:mm:ss.SSS
transactionId	Transaction Id
transactionType	Transaction type
amount	Transaction amount in transaction units. Negative when total balance is reduced or reserve balance is released.
transactionUnits	Asset transaction units at the time the transaction happened
amountInOutUnits optional	Amount in inOutUnits at the time of the transaction. Returned only for Deposit, Withdrawal, Redemption, Adjustment.
inOutUnits optional	inOutUnits of the assetId at the time of the event. Returned only if amountInOutUnits is returned.
mpId	MP Id
mpName	MP Name
ledgerAccountId	Ledger Account Id where the transaction occurred
ledgerAccountName	Ledger account name
assetId	Asset Id
assetName	Asset name

description	Transaction description. See description field mapping below.
linkId optional	Groups transactions generated in related events: Trade, DvP, DvP/RvP, FOP, DvD.
counterpartyMpId optional	Counterparty MP; returned only for transfer types DvP, RvP, FoP, DvD
counterpartyMpName optional	Counterparty MP Name

Description Field

Transaction Type	Description
Trade	[symbol] trade [matchId]
Reserve Balance & Release Balance	For orders: [symbol] order [orderId]; For quotes: [symbol] quote [quoteId]; For alleged trades: [symbol] allegedTrade [allegedTradeId]; For Withdrawal: [Asset.name] withdrawal request [transaction request Id]; For alleged transfer: [Asset.name] allegedTransfer [alleged transfer id]
Other	Free text captured by initiator

Error Codes

Code	Message
1	Temporary failure to retrieve this data
1001	Wrong [FieldName] format; Invalid parameter: [FieldName]; dateTo must be greater than dateFrom
1007	Invalid session
1008	Insufficient permissions

Sample Request

```
{
  "q": "v1/exchange.reporting/mp/transactions",
  "sid": 100,
  "d": {
    "dateFrom": "2025-12-01T08:42:16.092",
    "dateTo": "2025-12-31T08:42:16.092",
    "limit": 5
  }
}
```

9.3 Transaction Requests

Transaction Requests API is used to retrieve the current state of a list of Transaction Requests.

qualifier: v1/exchange.reporting/mp/transactionRequests

Request

Parameter	Type	Description
dateFrom optional	DateTime	Search for transaction requests where Created At $\geq$ dateFrom. Format: YYYY-MM-DDThh:mm:ss[.SSS]

dateTo optional	DateTime	Search for transaction requests where Created At < dateTo. Format: YYYY-MM-DDThh:mm:ss[.SSS]
type optional	eNum	Available values: Deposit, Withdrawal. Empty = all types.
statuses	[]eNum	Available values: Instructed, InProcess, Settled, Cancelled
assetId optional	int	Search by assetId
mpId optional	int	Search by mpId
ledgerAccountId optional	int	Search by ledger account id
id optional	int	Search by transaction request id
orderBy optional	object	Object with field (createdAt or lastEventTimestamp) and direction (Asc, Desc). Default = [createdAt, Desc].
limit optional	int	Records per page. Default = 25; Max = 100
offset optional	int	Record offset. Default = 0

Response

Transaction Requests response provides a close to real-time list of Transaction Requests for the requested period.

Field	Description
createdAt	Timestamp of the transaction request creation. Format: YYYY-MM-DDThh:mm:ss.SSS
id	Transaction request id
type	Available values: Deposit, Withdrawal
mpId	MP Id
mpName	MP Name
status	Available values: Instructed, InProcess, Settled, Cancelled
ledgerAccountId	Ledger Account Id of the transaction request
ledgerAccountName	Ledger account name
assetId	Asset Id
assetName	Asset name
amount	Amount
units	Asset inOutUnits of the assetId at the time of creating
description optional	Description
instructionDetailsId optional	UUID to be used to get the URL for the latest instructionDetails
assetDetailsId optional	UUID to be used to get the URL for the latest assetDetails
lastEventTimestamp	eventTimestamp of the last event of the transaction request. Format: YYYY-MM-DDThh:mm:ss.SSS

Error Codes

Code	Message
1	Temporary failure to retrieve this data
1001	Wrong [FieldName] format; dateTo must be greater than dateFrom

1007	Invalid session
1008	Insufficient permissions

Sample Request

```
{
  "q": "v1/exchange.reporting/mp/transactionRequests",
  "sid": 100,
  "d": {
    "dateFrom": "2025-01-01T08:42:16.092",
    "dateTo": "2025-12-31T08:42:16.092",
    "limit": 5
  }
}
```

9.4 Alleged Transfers

Alleged Transfers API is used to retrieve the current state of a list of Alleged Transfers.

qualifier: v1/exchange.reporting/mp/allegedTransfers

Request

Parameter	Type	Description
dateFrom optional	DateTime	Search for alleged transfers where Created At ≥ dateFrom. Format: YYYY-MM-DDThh:mm:ss[.SSS]
dateTo optional	DateTime	Search for alleged transfers where Created At < dateTo. Format: YYYY-MM-DDThh:mm:ss[.SSS]
type optional	eNum	Available values: DvP, RvP, FoP, FoP_Receive, DvD. Empty = all types.
statuses optional	[]eNum	Available values: Instructed, Settled, Cancelled
assetId optional	int	Search by assetId in sendingAssetId and receivingAssetId fields
mpId optional	int	Search by mpId in both mpId and counterpartyMpId
ledgerAccountId optional	int	Search by ledgerAccountId
allegedTransferId optional	int	Search by Alleged Transfer id
externalId optional	int	Search by External id
orderBy optional	object	Object with field (createdAt or lastEventTimestamp) and direction (Asc, Desc). Default = [createdAt, Desc].
limit optional	int	Records per page. Default = 25; Max = 100
offset optional	int	Record offset. Default = 0

Response

Alleged Transfers response provides a close to real-time list of Alleged Transfers for the requested period.

Field	Description
createdAt	Timestamp of alleged transfer creation. Format: YYYY-MM-DDThh:mm:ss.SSS
allegedTransferId	System-generated unique Alleged Transfer Id
externalId	External Id agreed between the counterparties and used in matching criteria
mpId	MP Id
mpName	MP Name
ledgerAccountId	Ledger Account Id
ledgerAccountName	Ledger Account Name of the ledgerAccountId
type	Transfer type
sendingAssets	Array of Asset Objects representing sending assets
receivingAssets	Array of Asset Objects representing receiving assets
description	Description
counterpartyMpId	Counterparty MP Id
counterpartyMpName	Counterparty MP Name
status	Available values: Instructed, Settled, Cancelled
expireTime	Expiration time of the Alleged Transfer. Format: YYYY-MM-DDThh:mm:ss.SSSSSS
cancelReason	Available values: Expiration, CancelRequest, CancelOrderOnBehalf
lastEventTimestamp	eventTimestamp of the last event. Format: YYYY-MM-DDThh:mm:ss.SSS

Asset Object

Field	Description
assetId	Asset Id
assetName	Current Asset Name of the asset
amount	Amount of the asset in transaction units
units	Current Asset transactionUnits of the asset

Error Codes

Code	Message
1	Temporary failure to retrieve this data
1001	Wrong [FieldName] format; dateTo must be greater than dateFrom
1007	Invalid session
1008	Insufficient permissions

Sample Request

```
{
  "q": "v1/exchange.reporting/mp/allegedTransfers",
  "sid": 100,
  "d": {
    "dateFrom": "2025-01-01T08:42:16.092",
    "dateTo": "2026-12-31T08:42:16.092",
    "limit": 5
  }
}
```

9.5 Fees

Fees API is used to retrieve a list of Fees.

qualifier: v1/exchange.reporting/mp/fees

Request

Parameter	Type	Description
groupBy optional	eNum	One of the below options: - Type: Group by: Date, MP, Account, Type and FeeAsset - Account: Group by: Date, MP, Account, FeeAsset - MP: Group by: Date, MP and FeeAsset If not sent, do not group and response with entries as recorded in system: - Recurring fees: Date, MP, Account, Type, SubType, feeAssetId and ,targetEntity - Manual fee entries
dateFrom optional	Date	Search for fees where date ≥ dateFrom. Format: YYYY-MM-DD
dateTo optional	Date	Search for the fees that date < dateTo date ≤ dateTo Format: YYYY-MM-DD
mpId optional	int	Search by MP Id
ledgerAccountId optional	int	Search by ledger account id
feeAssetId optional	int	Search by fee asset id
types optional	[]eNum	Search by fee types
subTypes optional	[]eNum	Search by fee sub-types
orderBy optional	object	Object with field (date, mpId, ledgerAccountId) and direction (Asc, Desc). Default = [date, Asc, ledgerAccountId, Asc].
limit optional	int	Records per page. Default = 25; Max = 100
offset optional	int	Record offset. Default = 0

Response

Fees response provides a list of all fees for the requested dates.

Field	Description
date	Date of the fee. Format: YYYY-MM-DD
mpId	MP Id
mpName	MP Name
ledgerAccountId	Ledger Account Id where the asset balance is held
ledgerAccountName	Ledger account name
type	Available values: Trading, Transaction, Storage, Manual
subType	When type = Trading: CLOB, RFQ, trade entry values. When type = Transaction: transaction types of Transactions. When type = Manual: DeliveryCharge, Rebate, Other.
description	Description of the manual fee entry
fee	Fee. Summed in case of groupBy
feeAssetId	Fee Asset Id

feeAssetName	Fee Asset Name
targetEntityId	Id of the target entity Returned only in case groupBy is not sent
targetEntityName	Returned only in case groupBy is not sent

Error Codes

Code	Message
1	Temporary failure to retrieve this data
1001	Wrong [FieldName] format; dateTo must be ≥ to dateFrom
1007	Invalid session
1008	Insufficient permissions

Sample Request

```
{
  "q": "v1/exchange.reporting/mp/fees",
  "sid": 53,
  "d": {
    "dateFrom": "2026-03-01",
    "ledgerAccountId": "826",
    "groupBy": "Type",
    "types": [
      "Trading",
      "Transaction",
      "Storage",
      "Manual"
    ],
    "limit": 25,
    "offset": 0
  }
}
```

Appendix – Sample Requests

A.1 accountBalance

```
{
  "q": "v1/exchange.ledger/accountBalance",
  "sid": 53,
  "d": {
    "accountId": "37"
  }
}
```

A.2 createTransactionRequest

```
{
  "q": "v1/exchange.ledger/createTransactionRequest",
  "sid": 54,
  "d": {
    "amount": "1",
    "type": "Deposit",
  }
}
```

```

"assetId": "10",
"instructionDetailsId": "2eb83b2f-1118-4ecf-87ee-b18d639ff07f",
"assetDetailsId": "080f8c19-55e6-42fe-a211-735425f17adb",
"ledgerAccountId": "36"
}
}

```

A.3 cancelTransactionRequest

```

{
  "q": "v1/exchange.ledger/cancelTransactionRequest",
  "sid": 56,
  "d": {
    "id": 440
  }
}

```

A.4 createAllegedTransfer

```

{
  "q": "v1/exchange.ledger/createAllegedTransfer",
  "sid": 55,
  "d": {
    "type": "DvD",
    "externalId": "12341353",
    "counterpartyMpld": "9",
    "sendingAssets": [
      {
        "assetId": "10",
        "amount": "1"
      }
    ],
    "receivingAssets": [
      {
        "assetId": "97",
        "amount": "1000000"
      },
      {
        "assetId": "44",
        "amount": "100000"
      }
    ],
    "ledgerAccountId": "36"
  }
}

```

A.5 cancelAllegedTransfer

```

{
  "q": "v1/exchange.ledger/cancelAllegedTransfer",
  "sid": 57,
  "d": {

```

```
"allegedTransferId": 311
}
}
```

A.6 createCashTransfer

```
{
  "q": "v1/exchange.ledger/createCashTransfer",
  "sid": 58,
  "d": {
    "type": "Cash",
    "senderAccountId": "36",
    "senderAssets": [
      {
        "assetId": "44",
        "amount": "105"
      }
    ],
    "receiverAccountId": "826",
    "description": "Transfer 242"
  }
}
```

A.7 holdingsSummary

```
{
  "q": "v1/exchange.reporting/mp/holdingsSummary",
  "sid": 100,
  "d": {
    "eodDateFrom": "2025-12-01",
    "eodDateTo": "2025-12-31",
    "limit": 10
  }
}
```

A.8 transactions

```
{
  "q": "v1/exchange.reporting/mp/transactions",
  "sid": 100,
  "d": {
    "dateFrom": "2025-12-01T08:42:16.092",
    "dateTo": "2025-12-31T08:42:16.092",
    "limit": 5
  }
}
```

A.9 transactionRequests

```
{
  "q": "v1/exchange.reporting/mp/transactionRequests",
  "sid": 100,
  "d": {
    "dateFrom": "2025-01-01T08:42:16.092",
    "dateTo": "2025-12-31T08:42:16.092",
    "limit": 5
  }
}
```

A.10 allegedTransfers

```
{
  "q": "v1/exchange.reporting/mp/allegedTransfers",
  "sid": 100,
  "d": {
    "dateFrom": "2025-01-01T08:42:16.092",
    "dateTo": "2026-12-31T08:42:16.092",
    "limit": 5
  }
}
```

A.11 fees

```
{
  "q": "v1/exchange.reporting/mp/fees",
  "sid": 53,
  "d": {
    "dateFrom": "2026-03-01",
    "ledgerAccountId": "826",
    "groupBy": "Type",
    "types": [
      "Trading",
      "Transaction",
      "Storage",
      "Manual"
    ],
    "limit": 25,
    "offset": 0
  }
}
```