

API Specifications

Member Holding Statement, Cash & Cash Equivalent and Bank Account Balances

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National Stock Exchange of India Ltd
Exchange Plaza, Plot No. C/1, G Block,
Bandra-Kurla Complex, Bandra (E), Mumbai
- 400 051.

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Preface

Purpose

This document describes the Web API based communication and messaging format between the Exchange (NSE) and Trading Members. The document serves as a common guide for development and testing of interfaces between systems at Exchange and Trading Members.

Target Audience

- Business and Tech teams at Trading Member
- Business and Tech teams at Exchange (NSE)

Organization of This Document

This document is organized as follows:

Chapters	Description
Introduction	Overview of the document covering security features of the API and online messaging guidelines.
Exchange API	This chapter gives details of the API's exposed by exchanges. These API's will be consumed by Trading Members.

Introduction

REST API endpoints accessible over internet using HTTPS protocol will be provided to Trading Members to push the required Holding Statement, Cash & Cash Equivalent and Bank Account Balance data on weekly basis.

Authorization

- All the TM's will process user registration on existing inspection system.
- Member Portal Registration:
<https://uat.connect2nsccl.com/MemberPortal/> or <https://www.devconnect2nse.com/MemberPortal/>
 - User will sign-up and receive registration confirmation.
- On Successful login, Token will be provided to Consumers.
- The API consumer application is expected to send Token in header in every API HTTP request.
- **Token:** A unique identifier generated for all successful login.
- Token will have expiry of 30 minutes.
JWT mechanism will be used to generate tokens as it is widely used industry standard.

Message Format

- Messages will be in JSON.
- Following headers need to be provided in all API calls.
 - **Content-Type:** Header value should be "application/json" or "multipart/form-data" as specified in API
- All request and response messages are in JSON (JavaScript Object Notation) format. (Refer <http://www.json.org/> for details).
- Some of the key specifications related to JSON and standards followed for the API's are as follows
 - JSON is built on 2 structures. Object or Map containing key value pairs and an ordered list of values
 - A value could be Boolean (true/false), number, decimal, String or a structure (List or Object)
 - Object or key value pair structure consists of keys which are strings and values of any of the above types. E.g. {"ClientCode": "Test1", "PanNo": "ABCDE1234F"}
 - List contains list of Clients. E.g. ["Test1", "Test2", "Test3"]
 - A Boolean has only 2 values true or false
 - String values are enclosed in single quote or double quotes. e.g. "ClientCode", "PanNo"
 - Numbers and decimals are represented without any thousand - separator character
Decimal indicator is dot (".")
 - All dates, times and date times are represented as strings and in Indian standard time. Dates are formatted using format "DD-MM-YYYY". Time are formatted as "hh24:mm:ss". Date times are formatted as "DD-MM-YYYY hh24:mm:ss"
- Request Payload will be compressed by gzip

Exchange APIs:

Following are the API endpoints for integrations between Exchange and Trading Members:

Method	API EndPoint	Remarks
POST	https://www.devconnect2nse.com/inspectionapi/login	To Login and generate Session Token
POST	https://www.devconnect2nse.com/inspectionapi/logout	To logout
POST	https://www.devconnect2nse.com/inspectionapi/tradingHoldingUpload/{version}	To submit-holding-statement
POST	https://www.devconnect2nse.com/inspectionapi/tradingCashAndCashEquivalentUpload/{version}	Member to submit cash and cash equivalent data
POST	https://www.devconnect2nse.com/inspectionapi/tradingEodBalanceUpload/{version}	Member to submit their Bank account balance

Login

This API validates the user credentials. On successful login, a unique token will be provided per request and session will be established with user's system. In subsequent API calls, this token should be passed in HTTP header "Authorization" as mentioned in API Help Document.

Note:

- The password needs to be sent in encrypted format using AES256. The encryption private key will be generated on user registration.
- Login session validity will be for 30 mins.

Method	API EndPoint	Header	Content-Type
POST	https://www.devconnect2nse.com/inspectionapi/login	NA	application/json

Request JSON values

Sr. No	Field Description	Field Name	Data Type	Description	Expected Values & Validations	Optional /Mandatory
1	Member Code	memberCode	Char(5)	Member Code	Member Code	M
2	Login Id	loginId	Char(16)	Login ID	Login Id	M
3	Password	Password	Char(50)	Password	AES encrypted password	M

Request Object Structure (JSON)

```
{
  "memberCode": "06000",
  "loginId": "ApiUser06000",
  "password": "0CxUgThnqlK6gaKU2HnL2A=="
}
```

Password in example is AES encrypted text

Response JSON values

Sr. No.	Field Description	Field Name	Data Type	Description
1	Member Code	memberCode	Char(5)	Member Code
2	Response Code	code	Char(3)	Response Code
3	Login Id	loginId	Char(16)	Login ID
4	Token	token	String	Unique Token for further API's call
5	Status	status	String	Request Status

Response Object Structure (JSON)

```
{
  "memberCode": "09100",
  "code": ["601"],
  "loginId": "ApiUser09100",
  "token": "eyJhbGciOiJSUzI1NiJ9.eyJzdWIiOiIwOTEwMCIsImV4cCI6MTYzMjJwNzYyOCwiaWF0IjojNjMyMjA0MDI4LjQdGkiOiJhNWl0YjZiZi1lZTQwLTQ4NzItOGM4ZC0xNjE5ZjA2Nzk2NTEifQ.gGmBfpIbtP59X6gK28z4l6l1OkFgOBOIGjAX-WhjkY5DPJRxHJWtc-ToCdYPjLGAvnHNIvh-SZRRawxFSNgYw",
  "status": "success"
}
```

Logout

This API closes the current session and gets the user logged off.

Method	API EndPoint	Header	Content-Type
POST	https://www.devconnect2nse.com/inspectionapi/logout	Authorization	application/json

Request JSON values

Sr. No.	Field Description	Field Name	Data Type	Description
1	Member Code	memberCode	Char(5)	Member Code
2	Login Id	loginId	Char(16)	Login ID

Request Object Structure (JSON)

```
{
  "memberCode": "06000",
  "loginId": "ApiUser06000"
}
```

Response JSON values

Sr. No.	Field Description	Field Name	Data Type	Description
1	Response Code	code	Char(3)	Response Code
2	Status	status	String	Request Status

Response Object Structure (JSON)

```
{
  "code": ["601"],
  "status": "success"
}
```

Process for Submission of Holding Statements

1. TM has to submit the Holding Statement on Weekly basis.
2. The REST API used to upload the data will be in multipart/form-data.
3. Standard file name pattern / nomenclature not mandatory while uploading gzip file.
4. System will unzip the gzip file received and process data validations.
5. Member will specify last week date and week day in dd-mm-yyyy JSON Body Parameter. The week starts from day Monday and ends on day Saturday in body parameter.
6. System will not accept data for T Day if TM has not submitted the data for T-1 day. TM needs to first submit T-1 day data and then can submit data for T Day i.e. Data for Wednesday cannot be submitted until Monday and Tuesday's data is submitted.
7. If there is any error then error file will generate else success file will be generated.
8. If there is error in some records, then both error and success file will be generated.
9. System will provide response in JSON with gZip having record status with code in case of errors or incorrect: date, data type (Member PAN, Date, Member's Demat Account No., Client PAN, ISIN Code), blank fields and duplicate records and also store data in csv format in Member folder on server.
10. TM has to correct and resubmit the data to Exchange.

Method	API EndPoint	Header	Content-Type
POST	https://www.devconnect2nse.com/inspectionapi/tradingHoldingUpload/{version}	Authorization	multipart/form-data

Request JSON values

Sr. No	Field Description	Field Name	Data Type	Description	Expected Values and Validation	Type of Field
1	Member PAN	memberPan	Char(10)	Member PAN no	Basic PAN level Validations	Header field. Only once per request
2	Last Week Date	lastWeekDay	Char(10)	Last Date of the week for which holding details are being uploaded	DD-MM-YYYY	Header field. Only once per request
3	Date	weekDay	Char(10)	Week Day	DD-MM-YYYY	Header field. Only once per request
4	Holding Data	holdingData	String	Request Holding Data Array		Holding Data Array
4.1	Record Id (Unique ID)	recId	Char(15)	Unique Id	Max length 15	Unique number assigned for every row
4.2	Member's Demat Account No.	Dmat	Char(16)	Member DMAT Account Number	Max length 16	DMAT number assigned for every row of respective client
4.3	Member Account Type	accountType	Char(12)	Member Account Type	POOL, CM COLL, OWN, EPI, CLNTBENEFIT, TMCOLL, TMCOLL-MTF, CLNT UNPAID, CLNT COLL	Details repeated for every row
4.4	Unique Client Code (UCC)	Ucc	Char(20)	Unique Client Code	Special characters other than underscore should not be accept. Accept underscore at the 3rd position	Details repeated for every row
4.5	Client Name	clientName	Char(150)	Client Name	Max length accepted will be 150 characters	Details repeated for every row
4.6	Client PAN	Pan	Char(10)	Member PAN	Basic PAN level Validations	Details repeated for every row
4.7	ISIN Code	Isin	Char(12)	Security ISIN	Security ISIN Number	Details repeated for every row
4.8	Security / Commodity Type	securityType	Char(4)	Security Type	EQ, MF, BOND, DEBT, IDR, WT	Details repeated for every row
4.9	Name of Security / Commodities	nameOfSecurityOrCommodity	Char(100)	Name of Security / Commodities	Alphanumeric values, special characters	Details repeated for every row

4.1 0	Unit Type	unitType	Char(10)	Unit Type	GMS,KG,QUINT AL, MT,BARRELS,M MBTU BALES,DRUMS, OTHERS.NA	Details repeated for every row
4.9	Pledged Balance (Qty.)	totalPldgQty	Char(20)	Total Pledged Qty	Numeric Value	Details repeated for every row
4.1 0	Free Balance (Qty.)	freeBalQty	Char(20)	Free Balance Qty	Numeric Value	Details repeated for every row
4.1 1	Total (Qty.)	totalQty	Char(20)	Total Qty	Numeric Value	Details repeated for every row
4.1 2	Action	Action	Char(1)		A-Add, D-Delete	Details repeated for every row

Request Object Structure (JSON)

```
{
  "memberPan": "JULYY2019T",
  "lastWeekDay": "23-01-2021",
  "weekDay": "22-01-2021",
  "holdingData": [
    {
      "recId": "2",
      "dmat": "IN30012600078641",
      "accountType": "POOL",
      "ucc": "271876",
      "clientName": "PRAVIN CHANDRA RATILAL MEHTA",
      "pan": "ACVPM0782E",
      "isin": "IN0020200286",
      "securityType": "BOND",
      "totalPldgQty": "0",
      "freeBalQty": "1",
      "totalQty": "1",
      "action": "A",
      "nameOfSecOrCommodity": "NA",
      "unitType": "NA"
    },
    {
      "recId": "3",
      "dmat": "IN30012600078641",
      "accountType": "POOL",
      "ucc": "281896",
      "clientName": "JYOTI RAMASWAMY",
      "pan": "AFRPR5608B",
      "isin": "IN0020180488",
      "securityType": "EQ",
      "totalPldgQty": "0",
      "freeBalQty": "94",
      "totalQty": "94",
      "action": "A",
      "nameOfSecOrCommodity": "NA",
      "unitType": "NA"
    },
    {
      "recId": "4",
      "dmat": "IN30012600078641",
      "accountType": "POOL",
      "ucc": "333155",
      "clientName": "KAJARI CHAKRABARTI",
      "pan": "AESPC1984M",
      "isin": "IN0020040039",
      "securityType": "BOND",
      "totalPldgQty": "0",
      "freeBalQty": "15",
      "totalQty": "15",
      "action": "A",
      "nameOfSecOrCommodity": "NA",
      "unitType": "NA"
    }
  ]
}
```

Response JSON values

Sr.No	Field Description	Field Name	Data Type	Description	Expected Values and Validation	Type of Field
1	Header Code	hdrCode	Num(4)	Header Code	Overall Response Code	Header field. Only once per request
2	Acknowledge ID	ackId	Num(15)	Acknowledge ID	Unique ID	Header field. Only once per request
3	Member PAN	memberPan	Char(10)	Member PAN no	Basic PAN level Validations	Header field. Only once per request
4	Header Status	hdrStatus	String	Request Status	Response Status	Header field. Only once per request
5	Week Day	weekDay	Char(10)	Week Day	DD-MM-YYYY	Header field. Only once per request
6	Holding Data	holdingData	String	Response Holding Data Array		Response Array
6.1	Record Id	recId	String	Record id of referred data	Record Id Provided in request	Details repeated for every row
6.2	Master Code	code	String	Master code for referred data	Record Specific Response Code	Details repeated for every row
6.3	Status	status	String	Success or failure of referred data	Record Specific Response Status	Details repeated for every row
7	Last Week Date	lastWeekDay	Char(10)	Last Date of the week for which holding details are being uploaded	DD-MM-YYYY	Only once per request

Response Object Structure (JSON)

```
{
  "hdrCode": ["601"],
  "ackId": "091002201202126",
  "memberPan": "JALYY2019T",
  "hdrStatus": "success",
  "weekDay": "22-01-2021",
  "holdingData":
  [
    {"recId": "2", "code": ["601"], "status": "success"},
    {"recId": "3", "code": ["601"], "status": "success"},
    {"recId": "4", "code": ["601"], "status": "success"}
  ],
  "lastWeekDay": "23-01-2021"
}
```

Process to Submit Cash & Cash Equivalent Data

1. TM has to submit the Cash & Cash Equivalents on Weekly basis.
2. Nomenclature should be in this format PAN_CE_DDMMYYYY_Seqno.gz.
3. The REST API used to upload the data will be in multipart/form-data.
4. TM will submit by uploading Cash & Cash Equivalent file in CSV format and should be gzipped and uploaded in Exchange using API.
5. System will unzip the gzip file received and process data validation.
6. Member will specify last week date in ddmmyyyy file name. The week starts from day Monday and ends on day Saturday in body parameter.
7. System will not accept data for T Day if TM has not submitted the data for T-1 day. TM needs to first submit T-1 day data and then can submit data for T Day i.e. Data for 4th week cannot be submitted until previous to 4th week data is submitted.
8. If there is any error then error file will generate else success file will be generated.
9. System will provide response in JSON with gzip in case of incorrect file size, nomenclature or duplicate file.
10. TM has to correct and resubmit the data to Exchange.

Method	API EndPoint	Header	Content-Type
POST	https://www.devconnect2nse.com/inspectionapi/tradingCashAndCashEquivalentUpload/{version}	Authorization	multipart/form-data

CSV File Format

Sr. No.	Field Description	Field Name	Data Type	Description	Expected Values & Validations	Opt / Mandate
CSV File Parameters						
1	Trading Member PAN	Trading Member PAN	Char(10)	Member PAN No.	Basic PAN level Validations	M
2	Date	Date	Date	DD-MM-YYYY Note: Date of holding the cash/cash equivalent collaterals	Date format Validations	M
3	UNIQUE CLIENT CODE	UNIQUE CLIENT CODE	Char(20)	Unique Client Code Note: "OWN" to be mentioned in case of proprietary balances	Alpha-numeric client code	M
4	CLIENT PAN	CLIENT PAN	Char(10)	Client PAN no	Basic PAN level Validations	M
5	CLIENT Name	CLIENT Name	Char(150)	Client Name	Alpha-numeric Client Name	M
6	MTF/ NON MTF INDICATOR	MTF/ NON MTF INDICATOR	Char (20)	MTF or NON MTF Indicator Note: NON MTF means all other segments other than MTF (like CM, FO, CD, CO, SLB, MFSS and DEBT)	Values shall be either of the following: NON MTF MTF NA	M
7	FINANCIAL LEDGER BALANCE-A	FINANCIAL LEDGER BALANCE-A	Number (20)	Client's Financial Ledger Balance Note: Net across all segments & Exchanges. As per the financial ledger of the client.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
8	FINANCIAL LEDGER BALANCE (CLEAR)-B	FINANCIAL LEDGER BALANCE (CLEAR)-B	Number (20)	Client's Clear Financial Ledger Balance Note: Net across all segments & Exchanges. Financial ledger balance, after adjusting/reversal for	Value in Rs. (Decimals shall be allowed upto 3 digits)	M

				open bills (open bills also contain 'value of credit entry posted in client ledger in lieu of successful EPI to CC') of the client, un-cleared cheques deposited or issued and the margin obligations posted in the client ledger, if any.		
9	PEAK FINANCIAL LEDGER BALANCE (CLEAR)-C	PEAK FINANCIAL LEDGER BALANCE (CLEAR)-C	Number (20)	Client's Peak Financial Clear Ledger Balance Note: Highest net credit balance/lowest net debit balance across all segments & Exchanges during the day. Financial ledger balance, after adjusting/reversal for open bills (open bills also contain 'value of credit entry posted in client ledger in lieu of successful EPI to CC') of the client, un-cleared cheques deposited or issued and the margin obligations posted in the client ledger, if any.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
10	FINANCIAL LEDGER BALANCE-MCX	FINANCIAL LEDGER BALANCE-MCX	Number (20)	Client's MCX Financial Ledger Balance Note: Net balance of MCX ledger	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
11	FINANCIAL LEDGER BALANCE-NCDEX	FINANCIAL LEDGER BALANCE-NCDEX	Number (20)	Client's NCDEX Financial Ledger Balance Note: Net balance of NCDEX ledger	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
12	FINANCIAL LEDGER BALANCE-ICEX	FINANCIAL LEDGER BALANCE-ICEX	Number (20)	Client's ICEX Financial Ledger Balance Note: Net balance of ICEX ledger	Value in Rs. (Decimals shall be allowed upto 3 digits)	M

13	BANK GUARANTEE (BG)	BANK GUARANTEE (BG)	Number (20)	Client's Bank Guarantee value Note :- BG created by client in favor of trading member will be mentioned here	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
14	FIXED DEPOSIT RECEIPT (FDR)	FIXED DEPOSIT RECEIPT (FDR)	Number (20)	Client's Fixed Deposit Receipt Note :- FDR created by client in favor of trading member will be mentioned here	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
15	GOVERNMENT OF INDIA SECURITIES (GSEC)	GOVERNMENT OF INDIA SECURITIES (GSEC)	Number (20)	Client's GOI Securities Note: GSEC value after appropriate haircut	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
16	GILT FUNDS	GILT FUNDS	Number (20)	Client's GILT Funds Note: Gilt funds value after appropriate haircut	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
17	CREDIT ENTRY IN LEDGER IN LIEU OF EPI	CREDIT ENTRY IN LEDGER IN LIEU OF EPI	Number (20)	Client's Cr entry in lieu of EPI Note: Value of credit entry posted in client ledger in lieu of successful EPI to CC, which is considered/eligible for margin at EOD.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
18	POOL ACCOUNT	POOL ACCOUNT	Number (20)	Client's holding in POOL Account Note: Value of the securities, which are sold and available in the Pool account at EOD, which is considered for margin.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M

19	UNCLEARED CHEQUES	UNCLEARED CHEQUES	Number (20)	Client's un-cleared cheques Note: Value of cheques received from the clients, which are not cleared at EOD.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
20	VALUE OF COMMODITIES	VALUE OF COMMODITIES	Number (20)	Client's Value of Commodities Note: Commodity value after appropriate haircut	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
21	CASH COLLATERAL FOR MTF POSITIONS	CASH COLLATERAL FOR MTF POSITIONS	Number (20)	Cash collateral collected from clients for the MTF positions and available in Books of accounts maintained for MTF. Value will be mentioned in MTF indicator only and Value will be NA for Non-MTF indicator.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
22	UNCLAIMED/UNSETT LED CLIENT FUNDS	UNCLAIMED/UNSE TTLED CLIENT FUNDS	Char (03)	In case a member is unable to settle the client accounts due to non-availability of client's bank accounts and non-traceability of client as per NSE Circular No. NSE/INSP/43488 dated February 10, 2020, then member has to write Yes, else No	Value shall be any of the following YES NO	M
23	CLIENT BANK ACCOUNT NO	CLIENT BANK ACCOUNT NO	Number (20)	If Yes is mentioned in column number 22 then Bank account no. of member will be mentioned wherein unsettled/unclaimed funds have been parked else member has to write NA.	Numeric Value	M
24	LAST SETTLEMENT DATE	LAST SETTLEMENT DATE	String	Last statement Date Note: In case settlement is not applicable or settlement could not be done due to non- availability of client's bank accounts and	DD-MM- YYYY	M

				non-traceability of client then member may write "NA".		
25	ES INFORMATION TYPE	ES INFORMATION TYPE	Char (16)	ES information	Value shall be any of the following: NA TOTAL CR BALANCE Total Dr Balance Non Funded BG Total Cr Margin Free Coll At CM	M
26	VALUE	VALUE	Number (20)	Value	Value in Rs. (Decimals shall be allowed upto 3 digits)	M

Request form Data values

```
curl --location --request POST
'https://www.devconnect2nse.com/inspectionapi/tradingCashAndCashEquivalentUpload/1.0' \

--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiJ9.eyJzdWIiOiIxV4cCI6MTYzNTM5OTgxNSwiaWF0IjoxNj' \

--header 'Content-Type: multipart/form-data' \
```

CSV File in the following format should be gzipped and uploaded. System will accept gzip extension only, final name should be in format PAN_CE_DDMMYYYY_Seqno.gz

Response JSON values

Sr. No.	Field Description	Field Name	Data Type	Description	Expected Values & Validations	Opt / Mandate
CSV File Parameters						
1	Trading Member PAN	Trading Member PAN	Char(10)	Member PAN No.	Basic PAN level Validations	M

2	Date	Date	Date	DD-MM-YYYY Note: Date of holding the cash/cash equivalent collaterals	Date format Validations	M
3	UNIQUE CLIENT CODE	UNIQUE CLIENT CODE	Char(20)	Unique Client Code Note: "OWN" to be mentioned in case of proprietary balances	Alpha-numeric client code	M
4	CLIENT PAN	CLIENT PAN	Char(10)	Client PAN no	Basic PAN level Validations	M
5	CLIENT Name	CLIENT Name	Char(150)	Client Name	Alpha-numeric	M
6	MTF/ NON MTF INDICATOR	MTF/ NON MTF INDICATOR	Char (20)	MTF or NON MTF Indicator Note: NON MTF means all other segments other than MTF (like CM, FO, CD, CO, SLB, MFSS and DEBT)	Values shall be either of the following: NON MTF MTF NA	M
7	FINANCIAL LEDGER BALANCE-A	FINANCIAL LEDGER BALANCE-A	Number (20)	Client's Financial Ledger Balance Note: Net across all segments & Exchanges. As per the financial ledger of the client.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
8	FINANCIAL LEDGER BALANCE (CLEAR)-B	FINANCIAL LEDGER BALANCE (CLEAR)-B	Number (20)	Client's Clear Financial Ledger Balance Note: Net across all segments & Exchanges. Financial ledger balance, after adjusting/reversal for open bills (open bills also contain 'value of credit entry posted in client ledger in lieu of successful EPI to CC') of the client, uncleared cheques deposited or issued and the margin	Value in Rs. (Decimals shall be allowed upto 3 digits)	M

				obligations posted in the client ledger, if any.		
9	PEAK FINANCIAL LEDGER BALANCE (CLEAR)-C	PEAK FINANCIAL LEDGER BALANCE (CLEAR)-C	Number (20)	Client's Peak Financial Clear Ledger Balance Note: Highest net credit balance/lowest net debit balance across all segments & Exchanges during the day. Financial ledger balance, after adjusting/reversal for open bills (open bills also contain 'value of credit entry posted in client ledger in lieu of successful EPI to CC') of the client, uncleared cheques deposited or issued and the margin obligations posted in the client ledger, if any.	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
10	FINANCIAL LEDGER BALANCE-MCX	FINANCIAL LEDGER BALANCE-MCX	Number (20)	Client's MCX Financial Ledger Balance Note: Net balance of MCX ledger	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
11	FINANCIAL LEDGER BALANCE-NCDEX	FINANCIAL LEDGER BALANCE-NCDEX	Number (20)	Client's NCDEX Financial Ledger Balance Note: Net balance of NCDEX ledger	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
12	FINANCIAL LEDGER BALANCE-ICEX	FINANCIAL LEDGER BALANCE-ICEX	Number (20)	Client's ICEX Financial Ledger Balance Note: Net balance of ICEX ledger	Value in Rs. (Decimals shall be allowed upto 3 digits)	M
13	BANK GUARANTEE (BG)	BANK GUARANTEE (BG)	Number (20)	Client's Bank Guarantee value Note :- BG created by client in favor of trading member will be mentioned here	Value in Rs. (Decimals shall be allowed upto 3 digits)	M

14	FIXED DEPOSIT RECEIPT (FDR)	FIXED DEPOSIT RECEIPT (FDR)	Number (20)	Client's Fixed Deposit Receipt Note :- FDR created by client in favor of trading member will be mentioned here	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
15	GOVERNMENT OF INDIA SECURITIES (GSEC)	GOVERNMENT OF INDIA SECURITIES (GSEC)	Number (20)	Client's GOI Securities Note: GSEC value after appropriate haircut	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
16	GILT FUNDS	GILT FUNDS	Number (20)	Client's GILT Funds Note: Gilt funds value after appropriate haircut	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
17	CREDIT ENTRY IN LEDGER IN LIEU OF EPI	CREDIT ENTRY IN LEDGER IN LIEU OF EPI	Number (20)	Client's Cr entry in lieu of EPI Note: Value of credit entry posted in client ledger in lieu of successful EPI to CC, which is considered/eligible for margin at EOD.	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
18	POOL ACCOUNT	POOL ACCOUNT	Number (20)	Client's holding in POOL Account Note: Value of the securities, which are sold and available in the Pool account at EOD, which is considered for margin.	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
19	UNCLEARED CHEQUES	UNCLEARED CHEQUES	Number (20)	Client's un-cleared cheques Note: Value of cheques received from the clients, which are not cleared at EOD.	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
20	VALUE OF COMMODITIES	VALUE OF COMMODITIES	Number (20)	Client's Value of Commodities	Value in Rs. (Decimal s shall be	M

				Note: Commodity value after appropriate haircut	allowed upto 3 digits)	
21	CASH COLLATERAL FOR MTF POSITIONS	CASH COLLATERAL FOR MTF POSITIONS	Number (20)	Cash collateral collected from clients for the MTF positions and available in Books of accounts maintained for MTF. Value will be mentioned in MTF indicator only and Value will be NA for Non-MTF indicator.	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
22	UNCLAIMED/UNSETTLED CLIENT FUNDS	UNCLAIMED/UNSETTLED CLIENT FUNDS	Char (03)	In case a member is unable to settle the client accounts due to non-availability of client's bank accounts and non-traceability of client as per NSE Circular No. NSE/INSP/43488 dated February 10, 2020, then member has to write Yes, else No	Value shall be any of the following YES NO	M
23	CLIENT BANK ACCOUNT NO	CLIENT BANK ACCOUNT NO	Number (20)	If Yes is mentioned in column number 22 then Bank account no. of member will be mentioned wherein unsettled/unclaimed funds have been parked else member has to write NA.	Numeric Value	M
24	LAST SETTLEMENT DATE	LAST SETTLEMENT DATE	String	Last statement Date Note: In case settlement is not applicable or settlement could not be done due to non-availability of client's bank accounts and non-traceability of client then member may write "NA".	DD-MM-YYYY respective client.	M
25	ES INFORMATION TYPE	ES INFORMATION TYPE	Char (16)	ES information	Value shall be any of the following:	M

					NA Total Cr Balance Total Dr Balance Non Funded BG Total Cr Margin Free Coll At CM	
26	VALUE	VALUE	Number (20)	Value	Value in Rs. (Decimal s shall be allowed upto 3 digits)	M
27	Remarks	Remarks	String	Success / Failure		M

Response Object Structure (JSON)

```
"TRADING MEMBER PAN",DATE,"UNIQUE CLIENT CODE","CLIENT PAN","CLIENT NAME","MTF/ NON
MTF INDICATOR","FINANCIAL LEDGER BALANCE-A","FINANCIAL LEDGER BALANCE (CLEAR)-B","PEAK
FINANCIAL LEDGER BALANCE (CLEAR)-C","FINANCIAL LEDGER BALANCE-MCX","FINANCIAL LEDGER
BALANCE-NCDEX","FINANCIAL LEDGER BALANCE-ICEX","BANK GUARANTEE (BG)","FIXED DEPOSIT
RECEIPT (FDR)","GOVERNMENT OF INDIA SECURITIES (GSEC)","GILT FUNDS","CREDIT ENTRY IN
LEDGER IN LIEU OF EPI","POOL ACCOUNT","UNCLEARED CHEQUES","VALUE OF COMMODITIES","CASH
COLLATERAL FOR MTF POSITIONS","UNCLAIMED/UNSETTLED CLIENT FUNDS","CLIENT BANK ACCOUNT
NO","LAST SETTLEMENT DATE","ES INFORMATION TYPE",VALUE,REMARKS
```

```
ABCDEF0000C,01-01-2021,1000007,AEDCB0000F,"TARUN KUMAR JHA","NON
MTF",0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2345.123,NO,22,NA,NA,NA,OK
```

```
ABCDEF0000C,01-01-2021,1000011,APFPF0000D,"MUKESH RAMLAL
PATEL",MTF,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4534.432,NO,22,NA,NA,NA,OK
```

Process for Submission of Bank Account Balances

1. TM has to submit Bank Account Balances on Weekly basis.
2. The REST API used to upload the data will be in multipart/form-data.
3. TM will submit Bank Account Balances as prescribed by Exchange using API.
4. In header member will provide mandatory data i.e. Member PAN, File Type and Date.
5. Nomenclature must include PAN_BA_DDMMYYYYY.gz.
6. System will not accept data for T Day if TM has not submitted the data for T-1 day. TM needs to first submit T-1 day data and then can submit data for T Day i.e. Data for Wednesday cannot be submitted until Monday and Tuesday's data is submitted.
7. System will reject pushed data and provide response with errors in case of incorrect date, data type, blank fields or duplicate records.
8. On submission, system will provide errors in response in-case of failure. TM has to correct and resubmit the data to Exchange. In case of success, system will provide success JSON response.
9. Files will be Store on Server for both success and failure condition.

Method	API EndPoint	Header	Content-Type
POST	https://www.devconnect2nse.com/inspectionapi/tradingEodBalanceUpload/{version}	Authorization	multipart/form-data

Request JSON values

Sr. No.	Field Description	Field Name	Data Type	Description	Expected Values & Validations	Opt/ Mandate
Body Parameters						
1	Bank Balance Data	BankBalanceData	Array	Array of Bank Balance Data		M
1.1	Bank Account No.	Bank Account No	Number	Bank Account Number	Max Length :20	M
1.2	IFSC	IFSC	String	IFSC Code	Basic IFSC level Validations	M
1.3	Bank Account Type	Bank Account Type	String	Bank Account Type	Max Length :20	M
1.4	Balance Date 1		String	Balance Amount 1	Amount	M
1.5	Balance Date 2		String	Balance Amount 2	Amount	M
1.6	Balance Date 3		String	Balance Amount 3	Amount	M
1.7	Balance Date 4		String	Balance Amount 4	Amount	M
1.8	Balance Date 5		String	Balance Amount 5	Amount	M
1.9	Balance Date 6		String	Balance Amount 6	Amount	M

Request Object Structure (JSON)

```
{
  "BankBalanceData": [{
    "Bank Account No": 00990610014806,
    "IFSC": "HDFC0000060",
    "Bank Account Type": ANY OTHER,
    "03-05-2021": 102007496,
    "04-05-2021": 477298321,
    "05-05-2021": 134428920,
    "06-05-2021": 167572707,
    "07-05-2021": 307590962,
    "08-05-2021": 298195332
  },
  {
    "Bank Account No": 00990630003430,
    "IFSC": "HDFC0000060",
    "Bank Account Type": "SETTLEMENT ACCOUNT",
    "03-05-2021": 196163955,
    "04-05-2021": 275308037,
    "05-05-2021": 262304676,
    "06-05-2021": 416129907,
    "07-05-2021": 212682960,
    "08-05-2021": 462731157
  }
]
}
```


Response JSON values

Sr. No.	Field Description	Field Name	Data Type	Description	Expected Values & Validations
1.1	Bank Account No.	Bank Account No	Number	Bank Account Number	Max Length :20
1.2	IFSC	IFSC	String	IFSC Code	Basic IFSC level Validations
1.3	Bank Account Type	Bank Account Type	String	Bank Account Type	Max Length :20
1.4	Balance Date 1		String	Balance Amount 1	Amount
1.5	Balance Date 2		String	Balance Amount 2	Amount
1.6	Balance Date 3		String	Balance Amount 3	Amount
1.7	Balance Date 4		String	Balance Amount 4	Amount
1.8	Balance Date 5		String	Balance Amount 5	Amount
1.9	Balance Date 6		String	Balance Amount 6	Amount
1.7	Status	Status	String	Success or failure with reason	

Response Object Structure (JSON)

```
[ {
  "Bank Account No" : "00990610014806",
  "IFSC" : "HDFC0000060",
  "Bank Account Type" : "ANY OTHER",
  "03-05-2021" : "102007496",
  "04-05-2021" : "477298321",
  "05-05-2021" : "134428920",
  "06-05-2021" : "167572707",
  "07-05-2021" : "307590962",
  "08-05-2021" : "298195332",
  "Status" : "Success"
}, {
  "Bank Account No" : "00990630003430",
  "IFSC" : "HDFC0000060",
  "Bank Account Type" : "SETTLEMENT ACCOUNT",
  "03-05-2021" : "196163955",
  "04-05-2021" : "275308037",
  "05-05-2021" : "262304676",
  "06-05-2021" : "416129907",
  "07-05-2021" : "212682960",
  "08-05-2021" : "462731157",
  "Status" : "Success"
} ]
```

Standard HTTP response codes

Following are the standard HTTP Response codes

HTTP Code	Description
200	Success
400	Bad Request
401	Unauthorized
404	Not Found
409	Conflict
412	Precondition Failed
413	File size greater than 200 MB
500	Internal Server Error
501	Not Implemented
503	Service Unavailable

Master codes

Code	Description
601	Success
602	General Error
603	Partial Submission
605	Something went wrong
606	Method unknown
608	Previous request is in progress.
701	Invalid login id or password
702	User is disabled
803	Kindly check Auth token. Token is wrong or Token has expired
804	“Request exceeds max number of records” when number of records in the request exceed max number of records allowed.
805	“Kindly first submit data for week ended <earliest last Week Day Date>” for the requests where any previous submission is missing. This message specifies which week’s submission is pending
918	Duplicate Row
920	Invalid version No
921	Invalid Syntax
922	Invalid File Format
924	Invalid Content Type
927	Invalid content encoding type
931	Not Allowed to upload data because valid accessible days are expired