

API Documentation for NCMS FO

Version 1.0

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Version	Date	Description
1.0	15 th Dec 2022	V1.0

1 Background

Currently trading system transfers online trades data to NSE Clearing Management System (NCMS) server.

NCMS client application residing at the members end sends periodical request to pull the data from the server. Maximum 'N' number of records (parameterized at server) are sent to the client application for each request. Currently trade data available on the NCMS server is accessible only to the NCMS client application.

It is proposed to expose an API to our members for trade and actions (any modifications performed on trades) inquiry for FO segment.

This document covers the technical specifications for various operations involved at both NCL as well as at member end.

- Following operations aspects are covered in this document:

Sr. No.	Operation	Endpoints	Purpose
1	Login [Handshake]	/token	To authenticate the client
2	Trade Inquiry	/ncms-fo/trades-inquiry	To disseminate trades information data/client modifications
3	Trade Actions Inquiry	/ncms-fo/actions-inquiry	Approval/Rejection/Approve All Confirmation/SI Download/CP Modification

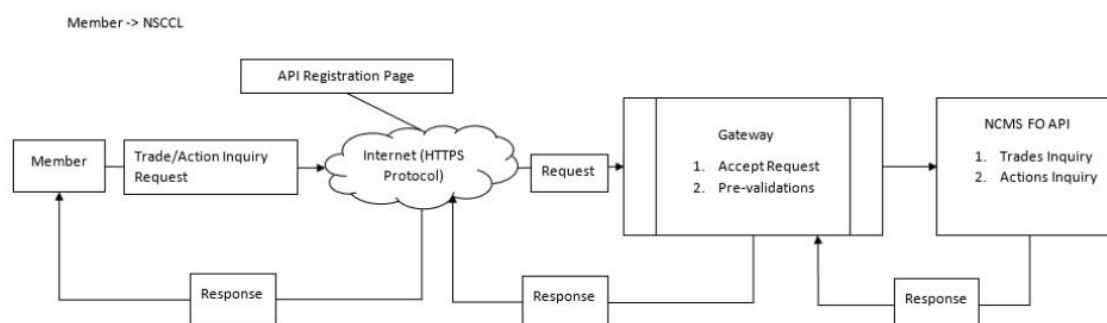
- Technical Specifications
- Log-in Workflow
- Message Structures

2 Data Flow Diagram

→ API Registration

- Members can register by providing the member code, member name, email address and IP from which they will be accessing the IP.
- On successful registration, an email will be sent to the email address provided with the Consumer Key and Consumer Secret.

→ API Call Workflow



3 Technology Specification

- Communication Protocol: HTTPS over internet.
- Request/Response Exchange Format: JSON (JavaScript Object Notation).
- Data Format: CSV (Comma Separated Values).
- Security Framework: Security Framework supports OAuth 2.0 specifications.

4 API Registration

- Member will need to provide information as described below for registration:
 - Member Code
 - Member Name
 - IP Address
 - Email Address
- Once this information is provided, the member specific Consumer Key and Consumer Secret will be generated and sent to the registered email address.
- Once the member receives the Consumer Key and Consumer Secret, they can start using the API.

5 Log-In Workflow

- Requesting a “Token”

*A consumer application needs to send a HTTPS **POST** request to the following URLs:*

UAT: <https://www.devconnect2nse.com/token>

Production/LIVE: <https://www.connect2nse.com/token>

➔ Sample Request

```
POST /auth/token HTTP/1.1
Host: www.connect2nse.com
Content-Type: application/x-www-form-urlencoded
Authorization: Basic aGRmYzpoZGZjc2VjcmV0
nonce: MjAwMTIwMTcxNjEyMjE1OTE6ODk0MjY3

grant_type=client_credentials
```

➔ Request Structure

API AUTHENTICATION REQUEST STRUCTURE (GET TOKEN)				
Sr. No.	Parameter Name	Data Type	Description	Sample Value
1	Authorization	String	Will be of format: Basic <member_credentials> Where, member_credentials is a base64 encoding of the following data: cons_key:cons_secret	Basic aGRmYzpoZGZjc2VjcmV0
2	nonce	String	An N-once value, that uniquely identifies each request sent to server. Has to be a base64 encoding of the following data: ddMMyyyyHHmmssSSS:<6-digit random number>	MjAwMTIwMTcxNjEyMjE1OTE6
3	grant_type	String	Value MUST be set to "client_credentials".	client_credentials

➔ Sample Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Pragma: no-cache{
  "access_token": "ee1073de-45d0-4040-b9c2-eddfa80280c0",
  "token_type": "bearer",
  "expires_in": "3600",
  "scope": "api_scope"
}
```

➔ Response Structure

API AUTHENTICATION RESPONSE STRUCTURE (GET TOKEN)				
Sr. No.	Parameter Name	Data Type	Description	Sample Value
1	access_token	String	The access token issued by the authorization server.	eyJhbGciOiJIUzI1NiIsInR5cCI6I
2	token_type	String	The type of the token issued	bearer

3	expires_in	int	The lifetime in seconds of the access token. For example, the value "3600" denotes that the access token will expire in one hour from the time the response was generated.	3600
4	scope	String	If identical to the scope requested by the client otherwise, REQUIRED.	api_scope

Note:

- The Access token is to be reused to access the NCL API Data till it expires.
- An access token expires after 'X' minutes of inactivity.

6 Request/Response Structure (JSON)

6.1 Trade Inquiry (ALL/TMTRADES)

UAT: <https://www.devconnect2nse.com/ncms-fo/trades-inquiry>

Production/LIVE: <https://www.connect2nse.com/ncms-fo/trades-inquiry>

➔ Sample request call (ALL Trades)

```
POST /api/ncms-fo/trades-inquiry HTTP/1.1
Host: www.connect2nse.com
Authorization: Bearer 3f64e567-04f9-43b8-9d24-e99856b24151
nonce: MjAwMTIwMTcxNjEyMjE1OTE6ODk0MjY3

{
  "version": "1.0",
  "data": {
    "msgId": "00240201310140000001",
    "dataFormat": "CSV:CSV",
    "tradesInquiry": "0,ALL,,"
  }
}
```

➔ Sample request call (TMTRADES Trades)

```
POST /api/ncms-fo/trades-inquiry HTTP/1.1
Host: www.connect2nse.com
Authorization: Bearer 3f64e567-04f9-43b8-9d24-e99856b24151
```

nonce: MjAwMTIwMTcxNjEyMjE1OTE6ODk0MjY3

```
{
  "version": "1.0",
  "data": {
    "msgId": "00240201310140000001",
    "dataFormat": "CSV:CSV",
    "tradesInquiry": "0,TMTRADES,,"
  }
}
```

NOTE: This filter is only applicable to Clearing Members that want to view only the trades that they have performed as a Trading Member.

Request Data Payload (JSON)				
Sr. No.	Parameter Name	Data Type	Description	Sample Value
1	version	String	API version	1.0
2	data.msgId	String	Unique request number for the each request <CODE><YYYYMMDD><nnnnnnnn> - MEMBERCODE – Member code (Length : 5) - YYYYMMDD – Date format - nnnnnnnn – Sequence no. starting from one i.e. For first request of the day, it should be (0000001).	00240201310140000001
2	data.dataformat	String	Request data format : Response data format	CSV:CSV
3	data.tradesInquiry	CSV	Data Structure specified below	0,ALL,,

Trade Inquiry Request Packet Structure				
Field Name	Description	Data Type	Size (in bytes)	Sample
seqNo	Trade sequence till where server had sent the trade information in the previous request. For first download request of the day, it should be 0.	long	8	0
srchFilter	Search Filter	String	50	- ALL – All Trades - TMTRADES – Clearing Member to view trades as a

				Trading Member (Only applicable to Clearing Members)
fill1	Filler	String	10	
fill2	Filler	String	10	

➔ Sample Response

	➔ Control Record
	➔ Record Separator
	➔ Data Record(s)

```
{
  "status": "success",
  "messages": {
    "code": "01010000"
  },
  "data": {
    "msgId": "00240201310140000001",
    "tradesInquiry": "1,20220919,,,2513977,13197^2014127,1,91114327,87841606323214,42401,200,1295,
2,1100000000435542,3,31908,2,07714,07714,,2,6001,1340356541,1,,110005129066000,P,07714,NIFTY
,,OPTIDX,1340461800,1510000,PE,1,42401911143271,,,,,,^2015346,1,200,87841606270976,1130673,50
,1650,1,1655869501643006029,0,0,2,07714,07714,,2,6001,1340356541,1,,0,P,07714,,,,0,0,,2,11306732
002,,,,,,^2015347,1,200,87841606270976,1130673,50,1650,1,1655869501643006029,0,0,2,07714,0771
4,,2,6001,1340356541,1,,0,P,07714,,,,0,0,,3,11306732003,,,,,,^2015369,1,97288,87841606330329,4911
6,50,265,1,1000000000370253,3,7028,2,07714,07714,,2,6001,1340356541,1,,400063005002012,P,0771
4,NIFTY,,OPTIDX,1340461800,1605000,CE,1,49116972881,,,,,,^"
  }
}
```

➔ Response Structure

Response Data Payload (JSON)				
Sr. No.	Parameter Name	Data Type	Description	Sample Value
1	status	String	Response status	success/error
2	messages.code	String	Refer Section "Message based response code".	01010000
3	data.msgId	String	Unique request number sent in request.	00240201310140000001
4	data.tradesInquiry	CSV	Data Structure specified below	Refer Sample Response.

Trade Inquiry Response Packet Structure				
Field Name	Description	Data Type	Size (in bytes)	Remarks
Control Record				
sysinfoResData	System Info Response Structure	System Info Response Structure	Size of (System Info Response Structure)	Structure details give below
trdResData	Trades Response Data Structure	Response Data Structure	Size of Response Data Structure	Structure details give below

➔ System Info Response Structure

System Info Response Structure				
Field Name	Description	Data Type	Size (in bytes)	Sample
mktSts	Market Status Refer Section "Transcodes"	Short	2	1
currTrdDate	Current Trade Date (YYYYMMDD)	long	8	20220919
sfill1	Filler	String	10	
sfill2	Filler	String	10	

➔ Trade Response Data Structure

Trades Response Data Structure				
Field Name	Description	Data Type	Size (in bytes)	Sample/Remarks
maxSeqNo	Max sequence number sent in response	long	8	2513977
noOfRec	Count of trades sent in the response	int	4	13197
Data Records				
tradesOutput	Array Of Trade Structure	Array Of Trade Structure	Size of (Array Of Trade Structure)	Structure details given below

Array Of Trade Structure					
Sr No.	Field Name	Description	Data Type	Size (in bytes)	Sample
1	seqNo	Unique Sequence Number	long	8	2014127
2	mkt	Market Type. Refer Section "Transcodes"	String	1	1
3	trdNo	Trade Number	long	8	91114327
4	trdTm	Trade Time in Jiffy Format	long	8	87841606323214
5	tkn	Token	int	4	42401
6	trdQty	Trade Quantity	int	4	200
7	trdPrc	Trade Price in paise	int	4	1295
8	bsFlg	Buy Sell Flag. Refer Section "Transcodes"	String	1	2
9	ordNo	Order Number	double	8	1100000000435542
10	brnCd	Branch Code	int	4	3
11	usrId	User Id	int	4	31908
12	proCli	Client Type. Refer Section "Transcodes"	short	2	2
13	cliActNo	Client account number	String	20	07714
14	cpCd	Custodial participant Id	String	12	07714
15	remarks	Remarks	String	25	
16	actTyp	Activity Type. Refer Section "Transcodes"	short	2	2
17	TCd	Transaction Code. Refer Section "Transcodes"	short	2	6001
18	ordTm	Order Time in milliseconds from 1980	long	8	1340356541
19	booktype	Book Type. Refer Section "Transcodes"	short	2	1
20	oppTmCd	Opposite Broker Id	String	1	
21	ctclId	CTCL code	double	8	110005129066000
22	status	Trade Status. Refer Section "Transcodes"	String	1	P
23	TmCd	Member Code	String	5	07714
24	sym	Symbol	String	10	NIFTY
25	ser	Series	String	2	
26	inst	Instrument	String	6	OPTIDX
27	expDt	Expiry Date (in milliseconds from 1980)	int	4	1340461800
28	strPrc	Strike Price in paise	int	4	1510000

29	optType	Option Type for Option Contract. Refer Section "Transcodes"	String	2	PE
30	exchangeID	Exchange Code. Refer section "Exchange Code"	int	2	1
31	tradeUniqID	Trade Unique ID	long	20	42401911143271
32	Fill1	Filler	String	10	
33	Fill2	Filler	String	10	
34	Fill3	Filler	String	10	
35	Fill4	Filler	String	10	
36	Fill5	Filler	String	10	
37	Fill6	Filler	String	10	

Note: Client modifications (Transaction Code: 5445) will be shown as part of the trade inquiry response.

6.2 Action Inquiry (Approval/Rejection/Approve ALL Response/CP Modification)

UAT: <https://www.devconnect2nse.com/ncms-fo/actions-inquiry>

Production/LIVE: <https://www.connect2nse.com/ncms-fo/actions-inquiry>

➔ Sample request call

```
GET /api/ncms-fo/actions-inquiry HTTP/1.1
Host: www.connect2nse.com
Authorization: Bearer 3f64e567-04f9-43b8-9d24-e99856b24151
nonce: MjAwMTIwMTcxNjEyMjE1OTE6ODk0MjY3
```

```
{
  "version": "1.0",
  "data": {
    "msgId": "00240201310140000001",
    "dataFormat": "CSV:CSV",
    "actionsInquiry": "0,ALL,, "
  }
}
```

➔ Request Structure

Request Data Payload (JSON)				
Sr. No.	Parameter Name	Data Type	Description	Sample Value
1	version	String	API version	1.0

2	data.msgId	String	Unique request number for the each request <CODE><YYYYMMDD><nnnnnnnn> • MEMBERCODE – Member code (Length : 5) • YYYYMMDD – Date format • nnnnnnn – Sequence no. starting from one i.e. For first request of the day, it should be (0000001).	00240201310140000001
3	data.dataformat	String	Request data format : Response data format	CSV:CSV
4	data.actionsInquiry	CSV	Data Structure specified below	Refer “Sample Request”

Actions Download Request Packet Structure				
Field Name	Description	Data Type	Size (in bytes)	Remarks
seqNo	Action sequence till where server had sent the action information in the previous request. For first download request of the day, it should be 0.	long	8	0
srchFilter	Search Filter All (Default)	String	50	ALL
fill1	Filler	String	10	
fill2	Filler	String	10	

Sample Response

```
{
  "status": "success",
  "messages": {
    "code": "01010000"
  },
  "data": {
    "msgId": "00240201310140000001",
    "actionsInquiry":
    "1,20191031,,,137850,3^0,137821,59262235,1257682190,7,06637^0,137822,59262235,1257682190,9,
    ^0,137823,60101727,1257693376,4,ICICI0005075"
  }
}
```

→ Response Structure

Response Data Payload (JSON)				
Sr. No.	Parameter Name	Data Type	Description	Sample Value
1	status	String	Response status	success/error
2	messages.code	String	Refer Section "Message based response code".	01010000
3	data.msgId	String	Unique request number sent in request.	00240201310140000001
4	data.actionsInquiry	CSV	Data Structure specified below	Refer Sample Response

Actions Download Response Packet Structure				
Field Name	Description	Data Type	Size (in bytes)	Remarks
Control Record				
sysinfoResData	System Info Response Structure	System Info Response Structure	Size of (System Info Response Structure)	Structure details give below
actResData	Actions Response Data Structure	Response Data Structure	Size of Response Data Structure	Structure details give below

→ System Info Response Structure

System Info Response Structure				
Field Name	Description	Data Type	Size (in bytes)	Sample
mktSts	Market Status Refer Section "Transcodes".	Short	2	1
currTrdDate	Current Trade Date (YYYYMMDD)	long	8	20191031
sfill1	Filler	String	10	
sfill2	Filler	String	10	

→ Action Response Data Structure

Actions Response Data Structure

Field Name	Description	Data Type	Size (in bytes)	Sample
maxSeqNo	Max sequence number sent in response	long	8	137850
noOfRec	Count of actions sent in response	int	4	3
Data Records				
actionsOutput	Array Of AppRejAction Structure	Array Of Actions Structure	Size of (Array Of Actions Structure)	Structure details give below

AppRejAction Data Structure				
Field Name	Description	Data Type	Size (in bytes)	Sample
errCd	Action Response error code	short	2	Refer Section "Async Response codes". 0
seqNo	Trade Sequence number	int	4	Sequence number of the trade for which action is received 137821
actTrdNo	Trade Number	long	8	59262235
actDtTm	Action Date Time	int	4	Date time in milliseconds from 1980 1257682190
actId	Action Type	short	2	Refer Section "Transcodes". 7
cpCd	Custodial Participant Code	String	10	06637
exchangeID	Exchange Code. Refer to section "Exchange Codes"	Int	3	1
ActUniqID	Unique Action ID	long	20	424371820000121
symbol	Symbol	String	10	NIFTY

- Workflow
 - Trade/Action download works on sequence number basis present in individual trade/action response packet (*seqNo*).

- The sequence number signifies the sequence of events for a single trade/action lifecycle. Every event occurred with respect to a particular trade/action will have a new sequence number.
- On trades/actions download request, maximum trades/actions sequence number available should be sent. If there are no trades/actions present, the sequence number sent should be 0. API shall interpret the request and will fetch “n” number of trades/actions, whose trades/actions sequence number is greater than that sent by client. The fetched trades will be sent back to client in response.
- The trades/actions received by client in response packet are to be stored at client end. On subsequent trades/actions download request, client should again send the maximum trades/actions sequence number available with them that was returned as part of the control record in the previous request.

7 Transcodes

7.1 Market Type

1	Normal
2	Odd Lot
3	Spot
4	Auction
5	Call Auction 1
6	Call Auction 2

7.2 Market Status

1	Preopen shutdown
2	Normal Market Preopen ended
3	Open Msg
4	Close Msg
5	Closing Start
6	Closing End

7.3 Transaction Code

6001	Original Trade
5525	Trade Modification Approval
5565	Control Trade Modification
5520	Trade Cancellation Approval
5560	Control Trade Cancellation
5530	Trade Cancellation Rejection
5445	Trade modification (Client Modification)
5440	Trade Cancellation

7.4 Activity Type

2	Original Trade
7	Trade Cancellation
101	Buy Participant modification
102	Sell Participant modification
103	Buy & Sell Participant modification
104	Quantity modification
105	Buy Account No. modification
106	Sell Account No. modification
107	Buy & Sell Account No.modification
109	Buy Trade Cancellation due to modification
110	Sell Participant Cancellation due to modification
111	Buy & Sell Trade Cancellation due to modification

7.5 Book Type

1	Regular Lot
2	Special Terms
3	Stop Loss / MIT
4	Negotiated Trade
5	Odd Lot
6	Spot
7	Auction
11	Call Auction 1
12	Call Auction 2

7.6 Client Type

1	Cli
2	Pro

7.7 Buy Sell Flag

1	BUY
2	SELL

7.8 Trade Status

P	Pending
R	Reject

A	Approve
---	---------

7.9 Option Type

CA	Call American
PA	Put American
CE	Call European
PE	Put European

7.10 Is Approval Flag

1	Approve
0	Reject

7.11 Action Type

2	Buy SI Generated
3	Sell SI Generated
4	AppRej Buy Approval
5	AppRej Sell Approval
6	Buy Side CP Modification (Old CP)
7	Sell Side CP Modification (Old CP)
8	Buy Side CP Modification (New CP)
9	Sell Side CP Modification (New CP)
14	AppRej Buy Rejected
15	AppRej Sell Rejected
16	Buy SI Cancelled
17	Sell SI Cancelled

7.12 Exchange Code

1	NSE Trades
2	BSE Trades
3	MSE Trades

8 Response Codes

There can be two types of response codes

- HTTP response codes
- Message based response codes
- Async response codes

8.1 HTTP response code

- HTTP responses shall be generated during login with success or failure status
- HTTP response shall also be generated in case of any authentication/input validation failure of the message
- HTTP response codes are as follows:

HTTP Response Codes			
Sr. No.	Reason	Meaning	HTTP Response Codes
1	SUCCESS	Request was handled successfully	200
2	UNKNOWN_ERROR	Internal Server Error: Internal server error has occurred in our platform.	500
3	SVC_UNAVAILABLE	The server is currently unable to handle the request due to a temporary overloading or maintenance of the server.	503
4	METHOD_NOT_ALLOWED	Unsupported HTTP Method: A request was made for a resource using a request method not supported by that resource (e.g. using POST instead of GET).	405
5	BAD REQUEST	PARAMETER_ABSENT - There's a required parameter which is not present in the request.	400
6	BAD REQUEST	DATA_INVALID - The data is not in correct format and not recognized by our system.	400
7	BAD REQUEST	DATA_FORMAT_REJECTED - Unsupported Data format parameter value	400
8	UNAUTHORIZED: Failed to authenticate the request	CONSUMER_KEY_UNKNOWN - The provided Consumer Key (API key) is not registered in our system or service is not registered.	401
9	UNAUTHORIZED: Failed to authenticate the request	TOKEN_INVALID - The provided token is not registered in our system	401
10	UNAUTHORIZED: Failed to authenticate the request	UNAUTHORIZED: * Unauthorized requestor IP address. * API access disabled	401
11	TOKEN_EXPIRED	The TEMPORARY access token generated by the platform has expired and can no longer be used.	572
12	PERMISSION_DENIED	Subscriber has temporarily disallowed access to his private data.	403
13	REQUEST_NOT_FOUND	Registration request not found	570

8.2 Message based response code

- Message based response code shall be populated in the field “**code**” of the JSON response message
- It shall be of below format
 - First four characters (Field Identifier): refers to specific field or the entire message
 - Next characters (Validation code): refers to specific validation failure or success. Success code shall be populated only on successful acceptance of the message.

8.2.1 Field Identifier is as follows:

Sr. No.	Module	Field Name	Field Identifier
1	Entire Message	NA	0101
2	Input Data Parameter	msgId	0102
3	Input Data Parameter	msgPrepDt	0105
4	Input Data Parameter	msgPrepTm	0106
5	Input Data Parameter	isApproval	0109
6	Input Data Parameter	seqNo	0107
7	Input Data Parameter	srchFilter	0108
8	Input Data Parameter	noOfRec	0110

8.2.2 Validation codes are as follows:

Sr. No.	Validation	Validation Type	Validation Code	Validation performed on Field
1	Submitted to server successfully	Message Level	0000	Entire Message
2	All HTTP status codes	HTTP error codes	HTTP Response codes. Refer section “HTTP Response Code”.	Entire Message
3	Mismatch in control and data record	Message Level	0200	Entire Message
4	Minimum Required Length	Generic	0201	msgId
5	Maximum Required Length	Generic	0202	msgId

Sr. No.	Validation	Validation Type	Validation Code	Validation performed on Field
6	Mandatory field	Generic	0204	msgId, isApproval, noOfRec, seqNo, srchFilter, trdDate
7	Data Format like Msg Id / Date Format	Generic	0206	msgId, trdDate
8	Minimum allowed value	Generic	0207	seqNo, noOfRec
9	Maximum allowed value	Generic	0208	noOfRec
10	Invalid Value	Generic	0209	seqNo, isApproval, srchFilter, trdDate
11	System Error	Generic	0241	NA
12	Service Unavailable	Generic	0242	NA
13	Request Parsing Error : Invalid Request Structure	Generic	0243	NA

8.2.3 Sample example for success or failure code

- Example for Generic Error Code

Let's assume that msgId field holds value ABCD201340402132165, which turns out to be an error "Invalid Data Format". Error Code that will be generated is as shown below:

Field Identifier: 0102

Validation Code: 0206

code = combination of "Field Identifier" and "Validation Code" = 01020206

- Example for Field Error Code

Let's assume that seqNo field holds value -1, which turns out to be an error "Minimum allowed value".

Error Code that will be generated is as shown below:

Field Identifier: 0107

Validation Code: 0207

code = combination of "Field Identifier" and "Validation Code" = 01070207

- Example for Success code (Submitted to server successfully)

Let's assume that message for approval/rejection is successful, success code that will be generated is as shown below:

Field Identifier: 0101 (which is the identifier of the entire message)

Validation Code: 0000

code = combination of "Field Identifier" and "Validation Code" = 01010000

- Example for HTTP error code

Let's assume that the invalid request scenario due to BAD Request, error code that will be generated is as shown below:

Field Identifier: 0101 (which is the identifier of the entire message)

Validation Code: 400

code = combination of "Field Identifier" and "Validation Code" =0101400

8.2.4 Async response code

Async response code shall be populated in the field "errCd" of the message

Error	Error Code
Success	0
System in wrong state	1
Invalid Contract	2
Invalid Participant	3
Trade not found	4
Trade already cancelled	5
System Error	6
Trade already approved	7
Trade already rejected	8
Outstanding alert	9
Invalid user	10
Invalid data	11
Clearing Member is in VC mode. Trade Approval/Rejection not allowed.	12
Clearing Member is Disabled. Trade Approval/Rejection not allowed.	13
Not Latest Trade	-12
Approve All request rejected-Invalid market status	-19
Invalid Seq No	-20
Invalid Clearing Member	-21
Invalid CP code	-22
Invalid buy/sell flag	-23
Invalid instrument	-24
Invalid symbol	-25
Invalid strike price	-26
Invalid expiry date	-27
Invalid option type	-28
Invalid trade quantity	-29
Invalid trade price	-30

Invalid order number	-31
Invalid trade number	-32
Invalid broker id	-33
Already submitted	-50
Already approved	-51
Already rejected	-52

9 Contingency

In case of any failure such as network, application, high bandwidth utilization at NSE or the MEMBER end, login workflow should be re-initiated.

10 Usage Guidelines

- Members should limit requests to 15 seconds between each request.
- Members can send requests to the API between 6:30 AM to 5 AM next day. Kindly note that NCMS services shall not be available between 5 AM to 6:30 AM due to maintenance activity.
- Failure to adhere to the above guidelines will result in removal of IP from whitelist which means that member will not be able to access the API until IP is re-added to the whitelist.