

# Protocol for WEB API Initial Public Offer System

Version 1.20.1

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National Stock Exchange of India Ltd  
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## Changes in Version 1.1

Page Number	Change Description
10	Added fields “nonASBA” and “chequeNumber” in request json of API “POST /v1/transactions/add”
12	Added fields “nonASBA” and “chequeNumber” in response json of API “POST /v1/transactions/add”
19	Changed datatype of field “bidReferenceNumber” to Number in response json of API “GET /v1/mismatches/{{symbol}}”

## Changes in Version 1.2

Page Number	Change Description
7	New api for eforms in “Summary” section
19	New api for eforms : POST/v1/eforms/add
23	New api for eforms : POST/v1/eforms/query

## Changes in Version 1.3

Page Number	Change Description
7	New api for transactions in “Summary” section
17	New api for transactions: POST/v1/ transactions/fetch
27	Appendix A - Error Messages updated
	Correction made in Live and UAT URL's

## Changes in Version 1.4

Page Number	Change Description
10	Added fields “upiFlag”, “upi” in request and response JSONs of POST/v1/transactions/add
21	Added field “upi” in request and response JSONs of POST/v1/eforms/add
27	Added Chapter 4 for callback APIs for informing member/bank about changes in DP Verification Status and UPI Payment Status

## Changes in Version 1.5

Page Number	Change Description
13	Added fields dpVerStatusFlag, dpVerFailCode, dpVerReason, upiPaymentStatusFlag, upiAmtBlocked in response JSON of POST/v1/transactions/add
28-30	Separate callback apis for updating of DP Status and UPI Payment status.

## Changes in Version 1.6

Page Number	Change Description
10	Added fields "subBrokerCode" in request and response JSONs of POST/v1/transactions/add
21	Added api GET /v1/ipomaster to query IPO master data

## Changes in Version 1.7

Page Number	Change Description
28	New api for ncb: GET /v1/ncbmaster

29	New api for ncb: POST /v1/ncb /add
31	New api for ncb: GET /v1/ncb/time
32	New api for ncb: POST /v1/ncb/fetch
35	New api for ncb: GET/v1/ncb/mismatches

## Changes in Version 1.8

Page Number	Change Description
36	Added General Instructions for Callback APIs
12	Added new pay status
13	Change in sample response for transaction/add

## Changes in Version 1.9

Page Number	Change Description
6	Added General Instructions point 5
7	Change in password length in API/Login
8	Added note in API/Login for access token
9	Changes in Password Policy.

## Changes in Version 1.10

Page Number	Change Description
12	Changes in Password Policy.

## Changes in Version 1.11

Page Number	Change Description
33	IPO Master – Added new column issueType and seriesDetails
67	Changes in Error Messages

## Changes in Version 1.12

Page Number	Change Description
7	General Instructions – Added point No 6 and 7
10,12,13	login and changePassword - Increased loginid length from 10 to 30

## Changes in Version 1.13

Page Number	Change Description
35	Change in description for issueType : GET /v1/ipomaster
63	New api for tender: GET /v1/tendermaster
65	New api for tender: POST /v1/epi
67	New api for tender: POST /v1/tender/add
74	New api for tender: GET /v1/tender/time
77	New api for tender: POST /v1/tender/fetch
85	Added Appendix B – Base URL

## Changes in Version 1.14

Page Number	Change Description
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17,22	New optional field remark in bid json request and response structure. Member applications can populate unique bid identifiers in this field and values will be echoed back in all responses
35,36	New field “categoryDetails” added in response of api GET /v1/ipomaster
84	New callback API for sending host notifications POST /v1/notification
22,23	Changes in POST/v1/transactions/add - Response JSON - Increase length of field reason to 250

## Changes in Version 1.15

Page Number	Change Description
89	New base URL updated

## Changes in Version 1.16

Page Number	Change Description
26	New API POST/v1/transactions/addbulk to add one or more applications in a single call.
32	New API GET /v1/transactions/slice/{{fromtime}}/{{totime}} to download applications for time window slice

## Changes in Version 1.17

Page Number	Change Description
13	New API for Heartbeat: GET /v1/heartbeat
28	GET /v1/ipomaster: Added category/subcategory settings in ipomaster API
55	New API for SGB: GET /v1/sgbmaster
57	New API for SGB: POST /v1/sgb/add
59	New API for SGB: GET /v1/sgb/time
61	New API for SGB: POST /v1/sgb/fetch
62	New API for SGB: GET /v1/sgb/mismatches
63	New API for SGB: GET /v1/sgb/incomplete
64	New API for SGB: POST /v1/sgb/incomplete/update
70	Added SGB API - List of Incomplete Codes under Appendix A

## Changes in Version 1.17.1

Page Number	Change Description
14,15	Changes for ASBA block ref no in POST/v1/transactions/add – Request/Response JSON - Increase length of field referenceNumber to 60, Description & validation rules updated for ASBA Block Ref No
32	Changes for ASBA block ref no in POST/v1/eforms/add - Request/Response JSON - Increase length of field bankReferenceNo to 60 and Description updated for ASBA Block Ref No

## Changes in Version 1.17.2

Page Number	Change Description
30,32	Added new filed subType in ipomaster api

## Changes in Version 1.18

Page Number	Change Description
15,17	Changes for Bank Account number in POST/v1/transactions/add – Request/Response JSON - Increase length of field bankAccount from 16 to 45
33,35	Changes for Bank Account number in POST/v1/eforms/add – Request/Response JSON - Increase length of field bankAccount from 16 to 45

## Changes in Version 1.18.1

Page Number	Change Description
15,18	Changes in POST/v1/transactions/add – Request/Response JSON – Changes in datatype for clientBenId from String(16) to Numeric and Description updated
42,43	Changes in POST/v1/ncb/add – Request/Response JSON – Changes in datatype for clientBenId from String(16) to Numeric and Description updated
51,52	Changes in POST/v1/tender/add – Request/Response JSON – Changes in datatype for clientBenId from String(16) to Numeric and Description updated
59,60	Changes in POST/v1/sgb/add – Request/Response JSON – Changes in datatype for clientBenId from String(16) to Numeric and Description updated

## Changes in Version 1.19

Page Number	Change Description
33	New api for allotment: GET /v1/allotment/{fromtime}/{totime}
34	New api for allotment: POST /v1/allotment/fetch

## Changes in Version 1.20

Page Number	Change Description
10,11,12	Added API Security Section as under - <ul style="list-style-type: none"> <li>Basic Security (v1)</li> <li>Advance Security (v2) - API Communication Version v2: Change in Encryption/Decryption approach to support advance security</li> </ul>

## Changes in Version 1.20.1

Page Number	Change Description
34,35	Added notes in ipomaster api

## Preface

### Purpose

This document describes the protocol to be used for Web Frontend to communicate with the Initial Public Offering (IPO) System and thus serves as a development guide.

### Target Audience

The document is written for system designers and programmers of user organizations and third party software developers who are responsible for the development of software to interact with the IPO System of the National Stock Exchange.

### Organization of This Document

This document is organized as follows:

Chapters	Description
Chapter 1	Provides a brief introduction
Chapter 2	Describes the general guidelines for the designers and programmers who develop. It details the data types used and discusses the headers that is prefaced with all the structures.
Chapter 3	Describes how a trader logs on to the host system. It covers the log on request, the system responses, entering fresh orders, modifying mismatch order along with notifications.
Chapter 4	Describes the call back API to be exposed by member/bank system over internet. This will be an optional feature, wherein, exchange host system will inform the member/bank system about any changes in DP Verification status of UPI Payment status by invoking this API
Appendix	Lists the error messages.

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## Introduction

This document describes the Web API's to programmatically access and exchange data with NSE eIPO system (HOST system). The document outlines the messaging protocols and structures for developing such interface.

## General Instructions

1. Following headers need to be provided in all API calls
  - **Content-Type:** Header value should be "application/json"
  - **User-Agent:** Header value should be application client information.
2. Path parameters and query parameters in the URL's must be encoded using percentage encoding. (Refer [http://www.w3schools.com/tags/ref\\_urlencode.asp](http://www.w3schools.com/tags/ref_urlencode.asp) for details)
3. All request and response messages are in JSON (Javascript Object Notation) format. (Refer <http://www.json.org/> for details).
4. Some of the key specifications related to JSON and standards followed for the API's are as follows
  - JSON is built on 2 structures. 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. {"name":"Amit", "age":25}
  - List contains list of values. E.g. ["Amit", "Ajay", "Vikas"]
  - A Boolean has only 2 values true or false.
  - String values are enclosed in single quote or double quotes. E.g. "name", "Amit", "Pending"
  - Numbers and decimals are represented without any thousand – separator character. Decimal indicator is dot (".")
  - All dates, times and datetimes 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".
5. Token which is generated at a time of login will be expired in 1 hour if session is idle and no activity is performed on it.
6. API Rate-Limit Throttling feature:
  - The API throttling/limiting feature implemented within the API server itself by intercepting every API request.
  - The validation implemented on list of APIs that need to be limit based on the define size of window and request limit. The validation shall be applicable per user session.
  - The user will get rejection in case request exceeds the defined rate limit.
  - Rejection Reason: API limit reached for API :< API Name> user :< User id>

For Example –

Sr. No	API Name	Window size	Limit
1	transactions/add	1 Sec	15
2	transactions/fetch	1 Sec	10
3	transactions/<time>	15 Min	1

Exchange would review the said limits periodically and would make changes in the limits as and when required. Participants are required to align their system accordingly.

- The third party application should follow the JSON data type and field length as per the API specification when invoking exchange APIs. In case of any violation, user will get rejection with HTTP status 403 Forbidden.

### API Security

The APIs will support 2 modes of security

- Basic Security - Identified by API version “v1”. Provides authentication of API invoker using Access-Token.
- Advanced Security - Identified by API version “v2”. Provides authentication, encryption and data integrity checks.

Exchange would host both versions of the API’s (“v1” or “v2”) which can be consumed by the Member/Bank participant.

### Basic Security (v1)

The API consumer application is expected to send following header in every API HTTP request.

**Access-Token:** Header value should be the token value received in successful login response (refer login API section). This header is not required in case of login API.

### Advance Security (v2)

Exchange will generate a 2048-bit RSA key pair for every Member/Bank and will share the public key of the pair with the Member/Bank participant and securely keep the private key.

Similarly, Member/Bank will also generate a 2048-bit RSA key pair for exchange and will share the public key of the pair with the exchange and securely keep the private key.

### Encryption

- The entity invoking the API should encrypt the request data (in case of POST method only) and add as request body in the HTTP request.
- The API response data should also be encrypted and sent as HTTP response.
- Encryption should be done in 2 steps.
- In first step the data should be encrypted using AES algorithm using 256-bit key.
- In second step the encrypted binary output should then be base64 encoded.

- The AES key should be randomly generated for every request or for a time window of say 15 minutes.
- The AES key should be encrypted using counter entity's public key and then base64 encoded. The encrypted and encoded key should be inserted as a header in request or response. Header key name should be "**Key1**".

#### Data Integrity

- The API invoker should insert "**Sig**" header in the HTTP request representing a message digest.
- In case of POST method the digest should be constructed by computing SHA256 of the request body followed by base64 encoding. Note that the request body contains encrypted and encoded data.
- In case of GET method which do not have a request body, a randomly generated string not more than 50 characters should be set as digest. Note that the digest would not be required for integrity check but will be required for authenticating the API invoker. (See below)
- In case of responses by API provider, the digest should be constructed in similar fashion using the encrypted and encoded response body and should be added in response header.

#### Authentication

- The entity (Exchange or Member/Bank) which is invoking an API will identify itself by providing a digital signature. A digital signature would comprise of a digest and signature obtained by encrypting the digest. Following steps should be performed.
- The API invoking entity should insert a header "**member/loginid**". This will be a unique identifier to identify the entity invoking the API. The identifier for National Stock Exchange will be NSE. In case of Member/Bank - the 5 character entity code and login id will be used as identifier.
- Additionally a header "**key3**" should also be inserted in the request. Signature should be computed by first encrypting the digest (computed for Integrity check) using entity's private key and then encoding the encrypted result using base64.
- The API responder is not expected to add headers "**member/loginid**" and "**key3**" in the responses.

#### Decryption

- The HTTP request received by API provider should be decrypted.
- Additionally the HTTP response received by API invoker should also be decrypted.
- Header "**key1**" should be read and decrypted first by base64 decoding the header value and then decrypting using the self private key corresponding to the counter entity. This will yield an AES key.
- The encrypted data should then be decrypted using the key and AES algorithm.

#### Verifying Authentication

- The API provider entity should authenticate API invoker entity using following steps

- Read the header “**member/loginid**” and fetch corresponding public key provided by the counter entity.
- Read the header “**key3**” for signature. Base64 decode it and then decrypt it using the public key fetched in above step.
- Read the header “**Sig**” for digest and match it with the text decrypted in the above step. A successful match would indicate successful authentication.

#### Verifying Integrity

- Integrity verification should be performed on request body data received in POST method.
- Integrity verification should also be done for all API responses received from the API provider.
- A digest should be computed first by SHA256 encoding the original encrypted and encoded data received in request body or response and then base64 encoding the same.
- The computed digest should be matched with the header value “**Sig**” received. A successful match would indicate a successful integrity verification.

#### Summary

Header Key	Description	Computation Logic	Required in Request	Required in Response
member	Identifier for the entity invoking the API	Member/Bank Code  The identifier for National Stock Exchange will be NSE	Yes	No
loginId	Identifier for the entity invoking the API	Login Id in case of Member/Bank  The identifier for National Stock Exchange will be NSE	Yes	No
key1	RSA Encrypted randomly generated AES key used for encrypting request payload or response	BASE64Encode(RSAEncrypt(AESKey, CounterPublicKey))	Yes	Yes
Sig	Message digest by hashing POST request payload or response.  For GET request a random alphanumeric string (<=50 chars) should be set as message digest	BASE64Encode(SHA256(Encrypted POST Request/Response Payload))	Yes	Yes
key3	Signature by RSA encrypting the message digest (Sig) using self private key.	BASE64Encode(RSAEncrypt(ipo-key-2, SelfPrivateKey))	Yes	No

	In case of GET request where no			
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Following key sizes and cipher transformations to be used

Algorithm	Key Strength	Cipher Transformation
RSA	2048	RSA/NONE/OAEPWithSHA1AndMGF1Padding
AES	256	AES/GCM/NoPadding

## APIs

### Summary

API	Description
POST /<version>/login	Login
GET /<version>/logout	Log out
POST /<version>/changePassword	Change password
GET /<version>/heartbeat	This API allows user to maintain active session to the host in case session is idle or no activity is performed.
POST /<version>/transactions/add	Add / Modify / Cancel application and bids within the application
POST /<version>/transactions/addbulk	Add / Modify / Cancel application and bids within the application in bulk
GET /<version>/transactions/{{time}}	Get Transactions entered after given time. Used to synchronize vendor application database
GET /<version>/transactions/slice/{{fromtime}}/{{totime}}	Get Transactions entered for a given time window slice. Used to synchronize vendor application database
POST /<version>/transactions/fetch	Get Transactions for the given filter criteria
GET /<version>/notifications/{{time}}	Get notifications (exchange alerts / news / session) after given time
GET /<version>/mismatches/{{symbol}}	Get all mismatch transactions for the given symbol.
GET /<version>/ipomaster	This API allows user to download ipo master
GET /<version>/allotment/{{fromtime}}/{{totime}}	This API allows user to download transactions for which allotment is done.
POST /<version>/allotment/fetch	This API allows user to download allotment transactions for the given filtered criteria
POST /<version>/eforms/add	Add applications and bids for eForm Pdf generation
POST /<version>/eforms/query	Get uploaded eforms for given filter criteria
GET /<version>/ncbmaster	This API allows user to download ncb master
POST /<version>/ncb/add	Add / Modify / Cancel application
GET /<version>/ncb/{{time}}	Get Transactions entered after given time. Used to synchronize vendor application database
POST /<version>/ncb/fetch	Get Transactions for the given filter criteria
POST /<version>/ncb/mismatches	Get Transactions for the given filter criteria
GET /<version>/tendermaster	This API allows user to download tender master
POST /<version>/epitender	Get details for the given filter criteria
POST /<version>/tender/add	Add application
GET /<version>/tender/{{time}}	Get Transactions entered after given time. Used to synchronize vendor application database
POST /<version>/tender/fetch	Get Transactions for the given filter criteria
GET /<version>/sgbmaster	This API allows user to download SGB master
POST /<version>/sgb/add	This API allows user to add / modify / cancel an application
GET /<version>/sgb/{{time}}	This API allows user to download SGB transactions.
POST /<version>/sgb/fetch	This API allows user to download SGB transactions for the given filtered criteria

POST /<version>/sgb/mismatches	This API allows user to download mismatches
POST /<version>/sgb/incomplete	This API allows user to download Incomplete Details
POST /<version>/sgb/incomplete/update	This API allows user to modify incomplete investor details for an application

## API Reference

### POST /<version>/login

This API authenticates the user and creates a session for the user in the Host System.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/login">https://&lt;baseurl&gt;/&lt;version&gt;/login</a>
Request	JSON
Response	JSON

#### Request JSON

Field	Type	Description
member	String(10)	Member/Bank code
loginId	String(30)	Login Id
password	String(15)	Password

#### Sample Request

```
{
  "member": "M0001",
  "loginId": "U0001",
  "password": "Zcs@44556677"
}
```

#### Response JSON

Field	Type	Description
member	String(10)	Member/Bank code. As in request
loginId	String(30)	Login Id. As in request
status	String(30)	success / failed / passwordExpired
currentTime	DateTime	Host end date time at the time of login
reason	String(100)	Login failure reason text. Only if "status" = "failed"
token	String(50)	Login Token. Only if "status" = "success". In subsequent API calls this token should be passed in HTTP header "Access-Token"  NOTE :- Token which is generated will be expired in 1 hour if session is idle and no activity is performed on it.

#### Sample Response – Login Success

```
{
  "member": "M0001",
  "loginId": "U0001",
  "status": "success",
  "currentTime": "01-12-2015 14:30:45",
  "token": "ssadfX3ddf4SZd"
}
```

**Sample Response – Login Failed**

```
{
  "member": "M0001",
  "loginId": "U0001",
  "status": "failed",
  "currentTime": "01-12-2015 14:30:45",
  "reason": "User disabled"
}
```

**GET /<version>/logout**

This API closes the current session in the HOST system

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/logout">https://&lt;baseurl&gt;/&lt;version&gt;/logout</a>
Request	NONE
Response	JSON

**Response JSON**

Field	Type	Description
status	String(30)	success / failed
currentTime	DateTime	Host end date time at the time of login
reason	String(100)	Failure reason text. Only if “status” = “failed”

**Sample Response**

```
{
  "status": "success",
  "currentTime": "01-12-2015 15:30:45"
}
```

**POST /<version>/changePassword**

This API allows user to change password.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/changePassword">https://&lt;baseurl&gt;/&lt;version&gt;/changePassword</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
member	String(10)	Member/Bank code
loginId	String(30)	Login Id
password	String(15)	Password
newPassword	String(15)	New Password. Should follow following guidelines <ul style="list-style-type: none"> <li>Minimum length of 12 characters and maximum length of 15 characters.</li> <li>The password shall be case sensitive and should contain at least one each of the following characters with no space:               <ol style="list-style-type: none"> <li>Upper case alphabet: A to Z or Lower case alphabet: a to z</li> <li>Number: 0 to 9</li> </ol> </li> </ul>



		<p>c) Special Characters: `!@#\$\$%^&amp;*()-_+=+{}\\:;'"',./&lt;&gt;?</p> <ul style="list-style-type: none"> <li>• Password will expire after 365 Days.</li> <li>• Maximum 5 Attempts in case of wrong password entered.</li> <li>• Last 5 passwords are not allowed.</li> <li>• Password to be changed upon first logon for each newly created user.</li> </ul>
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**Sample Request**

```
{
  "member": "M0001",
  "loginId": "U0001",
  "password": "Zcs@44556677",
  "newPassword": "rtY#67U56677"
}
```

**Response JSON**

Field	Type	Description
member	String(10)	Member/Bank code. As in request
loginId	String(30)	Login Id. As in request
status	String(30)	success / failed
reason	String(100)	Failure reason text
currentTime	DateTime	Host end date time

**Sample Response - Success**

```
{
  "member": "M0001",
  "loginId": "U0001",
  "status": "success",
  "currentTime": "01-12-2015 13:30:45"
}
```

**Sample Response - Failed**

```
{
  "member": "M0001",
  "loginId": "U0001",
  "status": "failed",
  "reason": "Incorrect old password",
  "currentTime": "01-12-2015 13:30:45"
}
```

**GET /<version>/heartbeat**

This API allows user to maintain active session to the host in case session is idle or no activity is performed.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/heartbeat">https://&lt;baseurl&gt;/&lt;version&gt;/heartbeat</a>
Request	NONE
Response	JSON

**Response JSON**

Field	Type	Description
-------	------	-------------

status	String (10)	success / failed
currentTime	Number	Host current time in milliseconds since epoch
reason	String (100)	Failure reason text. Only if “status” = “failed”

**Sample Response - Success**

```
{
  "status": "success",
  "currentTime": 1654691767800
}
```

**POST/<version>/transactions/add**

This API allows user to add / modify / cancel an application and its bids

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/transactions/add">https://&lt;baseurl&gt;/&lt;version&gt;/transactions/add</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
symbol	String(12)	Symbol
applicationNumber	String(16)	Application No.(of the physical form)
category	String(5)	Category code.
clientName	String(50)	Optional Client Name – Name of client
depository	String(5)	Depository Name (NSDL, CDSL)
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
nonASBA	Boolean	Flag to indicate application is Non ASBA. Applicable only for DEBT segment true – Non ASBA false – ASBA (default)
chequeNumber	Number	Cheque number Mandatory and valid if nonASBA = true
pan	String(10)	PAN No.- Permanent Account Number
referenceNumber	String(60)	Input ASBA Blocking Ref No- Prefix D for Direct ASBA (Bank User) Prefix S for Syndicate ASBA (Bank User) Prefix T for 3IN1 account type bid (Member User). NON-MANDATORY for UPI bid. <b>Refer ASBA Block Ref No Rules given below</b>
allotmentMode	String(10)	demat / physical
upiFlag	String(1)	Mandatory and valid if logged in user is a member Y = UPI Based Blocking

		N = Non UPI Based Blocking (ASBA)
upi	String(45)	UPI of the investor client Mandatory and valid if logged in user is a bank and upiFlag=Y
bankCode	String(6)	Bank Code Mandatory and valid if logged in user is a member and upiFlag = N
locationCode	String(6)	Location Code Mandatory and valid if logged in user is a member and upiFlag = N
bankAccount	String(45)	Bank Account number Mandatory and valid if logged in user is a bank
ifsc	String(11)	IFSC code Mandatory and valid if logged in user is a bank
subBrokerCode	String(20)	
timestamp	DateTime	Not required in case of new application. In case of application modification timestamp received in the last response for the application
bids	List of Objects	List of bid details. See structure below

**Bid Detail JSON**

Field	Type	Description
activityType	String(10)	Activity Type new / modify / cancel
bidReferenceNumber	Number	Bid Reference Number. Not required in case of “activityType” = “new”
series	String(4)	Valid series for the issue (applicable for Debt market issues only, Ignored otherwise)
quantity	Number	Bid Quantity
atCutOff	Boolean	Cut off Indicator true - if opting for cut off false- if not opting for cut off
price	Decimal	Bid Price. Mandatory and valid only if “atCutOff” = false. Should be greater than 0 and maximum 2 decimal places.
amount	Decimal	Bid Amount. Should be greater than 0 and maximum 2 decimal places.
remark	String(30)	Optional bid level remarks. Applications may populate their bid unique identifier in this field

	ASBA BLOCK REF NO RULES	
	IPO/SME IPO	RIGHTS/CALL MONEY
Bank Login	Mandatory & start with 'D' or 'S'	Mandatory & start with 'D'

	Special character (~,  %&) will not be allowed in reference number	Special character (~,  %&) will not be allowed in reference number
<b>Member Login</b>	Mandatory & start with 'T' in case of 3-in-1 account facility investor bid	Mandatory & start with 'T' in case of 3-in-1 account facility investor bid (Applicable only for CALL MONEY)
	Special character (~,  %&) will not be allowed in reference number	Special character (~,  %&) will not be allowed in reference number
	Non-Mandatory in case of UPI & Non-3-in-1 account type bid	

**Sample Request**

```
{
  "symbol": "TEST",
  "applicationNumber": "1200299929020",
  "category": "IND",
  "clientName": "Sumit Aggarwal",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "nonASBA": false,
  "pan": "AFAKA2323L",
  "referenceNumber": "MYREF0001",
  "allotmentMode": "demat",
  "upiFlag": "Y",
  "upi": "9393939393@upi",
  "bankCode": null,
  "locationCode": null,
  "timestamp": "01-12-2015 13:40:55",
  "bids": [
    {
      "activityType": "new",
      "quantity": 100,
      "atCutOff": false,
      "price": 55.30,
      "amount": 5530.00,
      "remark": "BD/000001"
    },
    {
      "activityType": "modify",
      "bidReferenceNumber": 2015120100000122,
      "quantity": 110,
      "atCutOff": false,
      "price": 54.30,
      "amount": 5863.00,
      "remark": "BD/000002"
    },
    {
      "activityType": "cancel",
      "bidReferenceNumber": 2015120100000123,
      "quantity": 95,
      "atCutOff": true,
      "remark": "BD/000003"
    }
  ]
}
```

}

**Response JSON**

Field	Type	Description
Symbol	String(12)	Symbol
applicationNumber	String(16)	Application No.(of the physical form)
category	String(5)	Category code.
clientName	String(50)	Optional Client Name – Name of client
depository	String(5)	Depository Name (NSDL, CDSL)
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
nonASBA	Boolean	Flag to indicate application is Non ASBA. Applicable only for DEBT segment true – Non ASBA false – ASBA (default)
chequeNumber	Number	Cheque number Mandatory and valid if nonASBA = true
pan	String(10)	PAN No.- Permanent Account Number
referenceNumber	String(60)	Input ASBA Blocking Ref No- Prefix D for Direct ASBA (Bank User) Prefix S for Syndicate ASBA (Bank User) Prefix T for 3IN1 account type bid (Member User). NON-MANDATORY for UPI bid.
allotmentMode	String(10)	demat / physical
upiFlag	String(1)	Mandatory and valid if logged in user is a member Y = UPI Based Blocking N = Non UPI Based Blocking (ASBA)
upi	String(45)	UPI of the investor client Mandatory and valid if logged in user is a bank and upiFlag=Y
bankCode	String(6)	Bank Code Mandatory and valid if logged in user is a member and upiFlag = N
locationCode	String(6)	Location Code Mandatory and valid if logged in user is a member and upiFlag = N
bankAccount	String(45)	Bank Account number Mandatory and valid if logged in user is a bank
ifsc	String(11)	IFSC code Mandatory and valid if logged in user is a bank
subBrokerCode	String(20)	
timestamp	DateTime	Last update time of the application

dpVerStatusFlag	String(1)	DP Verification Status for PAN DP combination check P = Pending S = Success F = Failed
dpVerFailCode	String(10)	Latest DP Verification failure code given by depository
dpVerReason	String(250)	DP Verification failure reason.
upiPaymentStatusFlag	Number	Last UPI Payment status received from sponsor bank for the given application This field only be visible in response if upi payment status is received from sponsor bank ends. 0=Request Sent 1=Request Failed 10=Request Accepted By Sponsor Bank 11=Rejected due to invalid UPI 12=Rejected by Sponsor Bank 13=Unsupported Investor Bank 21=Rejected by Investor Bank 22=Block/Release Request rejected by Client Bank due to Technical Reason 31=Rejected by Investor 100=Accepted by Investor 110=Block Released (Due to cancellation of order)
upiAmtBlocked	Decimal	Amount blocked in case of applications with upiFlag=Y
status	String	success/failed
reasonCode	Number	Fail reason code. Valid only if “status” = “failed”
reason	String(250)	Reason text
bids	List of Objects	List of bid details. See structure below

**Bid Detail JSON**

Field	Type	Description
activityType	String(10)	Activity Type new / modify / cancel
bidReferenceNumber	Number	Bid Reference Number.
series	String(4)	Valid series for the issue (applicable for Debt market issues only, Ignored otherwise)
quantity	Number	Bid Quantity
atCutOff	Boolean	Cut off Indicator true - if opting for cut off false- if not opting for cut off
price	Decimal	Bid Price. Mandatory and valid only if “atCutOff” = false. Should be greater than 0 and maximum 2 decimal places.
amount	Decimal	Bid Amount. Should be greater than 0 and maximum 2 decimal places.
remark	String(30)	Same as input
status	String	success/failed

reasonCode	Number	Fail reason code. Valid only if "status" = "failed"
reason	String(250)	Reason text

**Sample Response**

```
{
  "symbol": "TEST",
  "applicationNumber": "1200299929020",
  "category": "IND",
  "clientName": "Sumit Aggarwal",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "nonASBA": false,
  "chequeNumber": null,
  "pan": "AFAKA2323L",
  "referenceNumber": "MYREF0001",
  "allotmentMode": "demat",
  "upiFlag": "Y",
  "upi": "9393939393@upi",
  "bankCode": null,
  "locationCode": null,
  "subBrokerCode": "",
  "dpVerStatusFlag": "P",
  "upiAmtBlocked": 0.00,
  "timestamp": "01-12-2015 14:55:32",
  "status": "success",
  "bids": [
    {
      "activityType": "new",
      "bidReferenceNumber": 2015120100000382,
      "quantity": 100,
      "atCutOff": false,
      "price": 55.30,
      "amount": 5530.00,
      "remark": "BD/000001",
      "status": "success"
    },
    {
      "activityType": "modify",
      "bidReferenceNumber": 2015120100000122,
      "quantity": 110,
      "atCutOff": false,
      "price": 54.30,
      "amount": 5863.00,
      "remark": "BD/000002",
      "status": "success"
    }
  ]
}
```

**Sample Response - Failed**

```
{
  "symbol": "TEST",
  "applicationNumber": "1200299929020",
  "category": "IND",
  "clientName": "Sumit Aggarwal",
```

```

"depository": "NSDL",
"dpId": "33445566",
"clientBenId": "12345678",
"nonASBA": false,
"chequeNumber": null,
"pan": "AFAKA2323L",
"referenceNumber": "MYREF0001",
"allotmentMode": "demat",
"upiFlag": "Y",
"upi": "9393939393@upi",
"bankCode": null,
"locationCode" : null,
"timestamp" : "01-12-2015 14:55:32",
"status" : "failed",
"reasonCode" : 501,
"reason" : "Error in bid",
"bids": [
  {
    "activityType" : "new",
    "bidReferenceNumber": 2015120100000382,
    "quantity": 100,
    "atCutOff": false,
    "price": 55.30,
    "amount": 5530.00,
    "remark": "BD/000001",
    "status" : "failed",
    "reasonCode" : 91,
    "reason" : "Market timings over"
  },
  {
    "activityType" : "modify",
    "bidReferenceNumber": 2015120100000122,
    "quantity": 110,
    "atCutOff": false,
    "price": 54.30,
    "amount": 5863.00,
    "remark": "BD/000002",
    "status" : "success"
  }
]
}

```

#### POST/<version>/transactions/addbulk

This API allows user to add / modify / cancel one or more applications and their corresponding bids

<b>Method</b>	POST
<b>URL</b>	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/transactions/addbulk">https://&lt;baseurl&gt;/&lt;version&gt;/transactions/addbulk</a>
<b>Request</b>	JSON
<b>Response</b>	JSON

#### Request JSON

JSON containing list of elements with each element representing an application. The structure of the element in the list will be same as “[Request JSON](#)” in API POST/<version>/transactions/add.

#### Sample Request

```

[
  {
    "symbol": "TEST",

```



```
"applicationNumber": "1200299929020",
"category": "IND",
"clientName": "Sumit Aggarwal",
"depository": "NSDL",
"dpId": "33445566",
"clientBenId": "12345678",
"nonASBA": false,
"pan": "AFAKA2323L",
"referenceNumber": "MYREF0001",
"allotmentMode": "demat",
"upiFlag": "Y",
"upi": "9393939393@upi",
"bankCode": null,
"locationCode" : null,
"timestamp" : "01-12-2015 13:40:55",
"bids": [
  {
    "activityType" : "new",
    "quantity": 100,
    "atCutOff": false,
    "price": 55.30,
    "amount": 5530.00,
    "remark": "BD/000001"
  },
  {
    "activityType" : "modify",
    "bidReferenceNumber": 2015120100000122,
    "quantity": 110,
    "atCutOff": false,
    "price": 54.30,
    "amount": 5863.00,
    "remark": "BD/000002"
  },
  {
    "activityType" : "cancel",
    "bidReferenceNumber": 2015120100000123,
    "quantity": 95,
    "atCutOff": true,
    "remark": "BD/000003"
  }
],
{
  "symbol": "TEST1",
  "applicationNumber": "12002991111",
  "category": "IND",
  "clientName": "Suresh Kumar",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "nonASBA": false,
  "pan": "AFAKA2333L",
  "referenceNumber": "MYREF0002",
  "allotmentMode": "demat",
  "upiFlag": "Y",
  "upi": "333333@upi",
  "bankCode": null,
  "locationCode" : null,
  "timestamp" : "01-12-2015 13:40:55",
  "bids": [
    {
      "activityType" : "new",
```

```

        "quantity": 100,
        "atCutOff": false,
        "price": 55.30,
        "amount": 5530.00,
        "remark": "BD/000001"
    },
    {
        "activityType" : "modify",
        "bidReferenceNumber": 2015120100000122,
        "quantity": 110,
        "atCutOff": false,
        "price": 54.30,
        "amount": 5863.00,
        "remark": "BD/000002"
    },
    {
        "activityType" : "cancel",
        "bidReferenceNumber": 2015120100000123,
        "quantity": 95,
        "atCutOff": true,
        "remark": "BD/000003"
    }
]

```

**Request JSON**

JSON containing list of elements with each element response for applications in the request. The structure of the element in the list will be same as [“Response JSON”](#) in API POST/<version>/transactions/add

**Sample Response**

```

[
    {
        "symbol": "TEST",
        "applicationNumber": "1200299929020",
        "category": "IND",
        "clientName": "Sumit Aggarwal",
        "depository": "NSDL",
        "dpId": "33445566",
        "clientBenId": "12345678",
        "nonASBA": false,
        "chequeNumber": null,
        "pan": "AFAKA2323L",
        "referenceNumber": "MYREF0001",
        "allotmentMode": "demat",
        "upiFlag": "Y",
        "upi": "9393939393@upi",
        "bankCode": null,
        "locationCode" : null,
        "subBrokerCode": "",
        "dpVerStatusFlag" : "P",
        "upiAmtBlocked" : 0.00,
        "timestamp" : "01-12-2015 14:55:32",
        "status" : "success",
        "bids": [
            {
                "activityType" : "new",
                "bidReferenceNumber": 2015120100000382,

```

```

        "quantity": 100,
        "atCutOff": false,
        "price": 55.30,
        "amount": 5530.00,
        "remark": "BD/000001",
        "status" : "success"
    },
    {
        "activityType" : "modify",
        "bidReferenceNumber": 2015120100000122,
        "quantity": 110,
        "atCutOff": false,
        "price": 54.30,
        "amount": 5863.00,
        "remark": "BD/000002",
        "status" : "success"
    }
]
},
{
    "symbol": "TEST1",
    "applicationNumber": "12002991111",
    "category": "IND",
    "clientName": "Suresh Kumar",
    "depository": "NSDL",
    "dpId": "33445566",
    "clientBenId": "12345678",
    "nonASBA": false,
    "chequeNumber": null,
    "pan": "AFAKA2333L",
    "referenceNumber": "MYREF0002",
    "allotmentMode": "demat",
    "upiFlag": "Y",
    "upi": "9393939393@upi",
    "bankCode": null,
    "locationCode" : null,
    "timestamp" : "01-12-2015 14:55:32",
    "status" : "failed",
    "reasonCode" : 501,
    "reason" : "Error in bid",
    "bids": [
        {
            "activityType" : "new",
            "bidReferenceNumber": 2015120100000382,
            "quantity": 100,
            "atCutOff": false,
            "price": 55.30,
            "amount": 5530.00,
            "remark": "BD/000001",
            "status" : "failed",
            "reasonCode" : 91,
            "reason" : "Market timings over"
        },
        {
            "activityType" : "modify",
            "bidReferenceNumber": 2015120100000122,
            "quantity": 110,
            "atCutOff": false,
            "price": 54.30,
            "amount": 5863.00,
            "remark": "BD/000002",

```

```

        "status" : "success"
      }
    ]
  }
]

```

### GET /<version>/transactions/{{time}}

This API allows user to download transactions.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/transactions/{{time}}">https://&lt;baseurl&gt;/&lt;version&gt;/transactions/{{time}}</a>
Request	Path Parameters
Response	JSON

#### Request Path Parameters

Field	Type	Description
time	DateTime	Cutoff date time. Transactions entered after this time will be returned in the response

#### Sample URL with Path Parameters

```
https://<baseurl>/<version>/transactions/01-12-2015%2009:30:00
```

#### Response JSON

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
transactions	List of Objects	List Transaction responses. See Response JSON Structure for API "POST /<version>/transactions/add"

#### Sample Response - Success

```

{
  "status": "success",
  "transactions" :
  [
    {
      "symbol": "TEST",
      "applicationNumber": "1200299929020",
      "category": "IND",
      "clientName": "Sumit Aggarwal",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "nonASBA": false,
      "chequeNumber": null,
      "pan": "AFAKA2323L",
      "referenceNumber": "MYREF0001",
      "allotmentMode": "demat",
      "upiFlag": "Y",
      "upi": "9393939393@upi",
      "bankCode": null,
      "locationCode" : null,
      "dpVerStatusFlag" : "P",
      "subBrokerCode": ""
    }
  ]
}

```

```

    "upiAmtBlocked" : 0.00,
    "timestamp" : "01-12-2015 14:55:32",
    "status" : "success",
    "bids": [
      {
        "activityType" : "new",
        "bidReferenceNumber": 2015120100000382,
        "quantity": 100,
        "atCutOff": false,
        "price": 55.30,
        "amount": 5530.00,
        "status" : "success"
      },
      {
        "activityType" : "modify",
        "bidReferenceNumber":2015120100000122,
        "quantity": 110,
        "atCutOff": false,
        "price": 54.30,
        "amount": 5863.00,
        "status" : "success"
      }
    ]
  }
}

```

**Sample Response - Failed**

```

{
  "status": "failed",
  "reason": "Xyz"
}

```

GET /<version>/transactions/slice/{fromtime}/{totime}

This API allows user to download transactions for a time window

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/transactions/slice/{fromtime}/{totime}">https://&lt;baseurl&gt;/&lt;version&gt;/transactions/slice/{fromtime}/{totime}</a>
Request	Path Parameters
Response	JSON

**Request Path Parameters**

Field	Type	Description
fromtime	DateTime	Transactions entered after this time will be returned in the response
totime	DateTime	Transactions entered before this time will be returned in the response

**Sample URL with Path Parameters**

```

https://<baseurl>/<version>/transactions/01-12-2021%2010:30:00/01-12-2021%2011:30:00

```

**Response JSON**

Response JSON will be same as that for API GET /<version>/transactions/{time}

POST /<version>/transactions/fetch

This API allows user to download transactions for the given filter criteria.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/transactions/fetch">https://&lt;baseurl&gt;/&lt;version&gt;/transactions/fetch</a>
Request	JSON
Response	JSON

#### *Request JSON*

Field	Type	Description
symbol	String(12)	Mandatory Symbol
applicationNumber	String(16)	Mandatory Application No.(of the physical form)

#### **Sample Request**

```
{ "symbol": "TEST", "applicationNumber": "1200299929020" }
```

#### *Response JSON*

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
transactions	List of Objects	List Transaction response. See Response JSON Structure for API “POST /<version>/transactions/add”

#### **Sample Response - Success**

```
{
  "status": "success",
  "transactions" :
  [
    {
      "symbol": "TEST",
      "applicationNumber": "1200299929020",
      "category": "IND",
      "clientName": "Sumit Aggarwal",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "nonASBA": false,
      "chequeNumber": null,
      "pan": "AFAKA2323L",
      "referenceNumber": "MYREF0001",
      "allotmentMode": "demat",
      "upiFlag": "Y",
      "upi": "9393939393@upi",
      "bankCode": null,
      "locationCode" : null,
      "dpVerStatusFlag" : "P",
      "upiAmtBlocked" : 0.00,
      "subBrokerCode": "",
      "timestamp" : "01-12-2015 14:55:32",
      "status" : "success",
      "bids": [
        {
          "activityType" : "new",
          "bidReferenceNumber": 2015120100000382,
          "quantity": 100,
          "atCutOff": false,
          "price": 55.30,

```

```

        "amount": 5530.00,
        "status" : "success"
    },
    {
        "activityType" : "modify",
        "bidReferenceNumber": 20151201000000122,
        "quantity": 110,
        "atCutOff": false,
        "price": 54.30,
        "amount": 5863.00,
        "status" : "success"
    }
]
}
]
}

```

**Sample Response - Failed**

```

{
  "status": "failed",
  "reason": "No Records Found"
}

```

GET /&lt;version&gt;/notifications/{{time}}

This API allows user to download notifications.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/notifications/{{time}}">https://&lt;baseurl&gt;/&lt;version&gt;/notifications/{{time}}</a>
Request	Path Parameters
Response	JSON

**Request Path Parameters**

Field	Type	Description
time	DateTime	Cutoff date time for notifications

**Sample URL with Path Parameters**

```
https://<baseurl>/<version>/notifications/01-12-2015%2009:30:00
```

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	reason
notifications	List of Objects	List of Notification objects

**Notification Object JSON Structure**

Field	Type	Description
type	String(10)	alert/news/session
message	String(200)	message

**Sample Response**

```

{
  "status": "success",
  "notifications": [
    {

```

```

        "type": "alert",
        "message": "Application entry time for symbol XYZ
relaxed till 06:00 pm"
    },
    {
        "type": "session",
        "message": "Symbol PQR category QIB bid entry closed"
    }
]
}

```

GET /<version>/mismatches/{symbol}

This API allows user to download notifications.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/mismatches/{symbol}">https://&lt;baseurl&gt;/&lt;version&gt;/mismatches/{symbol}</a>
Request	Path Parameters
Response	JSON

#### Request Path Parameters

Field	Type	Description
symbol	String(12)	Issue Symbol

#### Sample URL with Path Parameters

<https://<baseurl>/<version>/mismatches/TESTSYM01>

#### Response JSON

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	reason
mismatches	List of Objects	List of Mismatch objects

#### Mismatch Object JSON Structure

Field	Type	Description
symbol	String(12)	Symbol
applicationNumber	String(16)	Application No.(of the physical form)
category	String(5)	Category code.
clientName	String(50)	Optional Client Name – Name of client
depository	String(5)	Depository Name (NSDL, CDSL)
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	String(16)	Client ID in case of NSDL Beneficiary ID in case of CDSL
nonASBA	Boolean	Flag to indicate application is Non ASBA. Applicable only for DEBT segment true – Non ASBA false – ASBA (default)
chequeNumber	Number	Cheque number Mandatory and valid if nonASBA = true
pan	String(10)	PAN No.- Permanent Account Number



bidReferenceNumber	Number	Bid Reference Number.
errorCode	String(1)	Mismatch error code
reason	String(250)	Reason text

**Sample Response**

```
{
  "status": "success",
  "mismatches": [
    {
      "symbol": "TEST",
      "applicationNumber": "1200299929020",
      "category": "IND",
      "clientName": "Sumit Aggarwal",
      "chequeNumber": "",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "pan": "AFAKA2323L",
      "nonASBA": false,
      "referenceNumber": "MYREF0001",
      "errorCode": "W",
      "reason": "Account does not exist"
    },
    {
      "symbol": "TEST",
      "applicationNumber": "1200299929025",
      "category": "IND",
      "clientName": "Asha Aggarwal",
      "chequeNumber": "",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345679",
      "pan": "AFAKA2326L",
      "nonASBA": false,
      "referenceNumber": "MYREF0002",
      "errorCode": "W",
      "reason": "Account does not exist"
    }
  ]
}
```

**GET /<version>/ipomaster**

This API allows user to download ipo master.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/ipomaster">https://&lt;baseurl&gt;/&lt;version&gt;/ipomaster</a>
Request	None
Response	JSON

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	reason
data	List of Objects	List of IPO Master objects

**IPO Master Object JSON Structure**

Field	Type	Description
-------	------	-------------

symbol	String(12)	Symbol
name	String(250)	Name of the issue
lotSize	Number	Bidding Lot Size
minBidQuantity	Number	Optional Minimum Quantity for Bidding
faceValue	Decimal	Face value
minPrice	Decimal	Optional Minimum Price
maxPrice	Decimal	Optional Maximum Price
tickSize	Decimal	Tick Size
cutoffPrice	Decimal	Cutoff price
biddingStartDate	Date	First Date of bidding
biddingEndDate	Date	Last Date of normal bidding
dailyStartTime	Time	Bidding start time for the current day
dailyEndTime	Time	Bidding end time for the current day
Isin	String(12)	Isin
issueSize	Number	Issue size
subType	String(19)	Type of sub type. Possible value will be SME/Call Money /SSE
registrar	String(100)	Name of registrar
t1ModStartDate	Date	First Date of T1 modification
t1ModEndDate	Date	Last Date of T1 modification
t1ModStartTime	Time	Start time for T1 modification
t1ModEndTime	Time	End time for T1 modification
issueType	String(10)	Type of Issue. Possible value will be EQUITY/DEBT/RIGHTS/REITS/INVIT.
seriesDetails	List of Objects	List of series details. (Applicable for Debt market issues only, Ignored otherwise). See structure below
categoryDetails	List of Objects	List of Category details
subCategorySettings	List of Objects	List of Category/Subcategory Settings

**Series Detail JSON**

Field	Type	Description
code	String(4)	Valid series for the issue.
desc	String(200)	Series description.

**Category Detail JSON**

Field	Type	Description
code	String(14)	Valid category code for the issue. In case of IPO, the possible value will be RETAIL (Main Board IPO) and INDIV (SME IPO)
startTime	Time	Bidding start time. Format hh24:mm:ss. E.g. "10:00:00"
endTime	Time	Bidding end time. Format hh24:mm:ss. E.g. "17:00:00"

**Subcategory Settings JSON**

Field	Type	Description
caCode	String (14)	Valid category code for the issue

		In case of IPO, the possible value will be RETAIL (Main Board IPO) and INDIV (SME IPO)
subCatCode	String (5)	Valid subcategory code for the issue.
minValue	Decimal	Minimum Value
maxValue	Decimal	Maximum Value
allowCutOff	Boolean	true - if cut off is allowed false- if cut off is not allowed
discountType	String (1)	A- Absolute P- Percentage
discountPrice	Decimal	Discount Price per share in case of Absolute else Discount in percentage
maxQuantity	Number	Max Quantity
allowUpi	Boolean	true - if UPI is allowed false- if UPI is not allowed
maxUpiLimit	Decimal	Max UPI Limit

### Sample Response

```
{
  "status": "success",
  "data": [
    {
      "symbol": "TESTIPO",
      "name": "Test Industries",
      "issueType": "EQUITY",
      "lotSize": 1,
      "minBidQuantity": 100,
      "faceValue": 10.00,
      "minPrice": 12.00,
      "maxPrice": 12.50,
      "tickSize": 0.05,
      "cutoffPrice": 12.50,
      "biddingStartDate": "01-01-2019",
      "biddingEndDate": "03-01-2019",
      "dailyStartTime": "10:00:00",
      "dailyEndTime": "17:00:00",
      "isin": "INE121212121",
      "issueSize": 150000000,
      "registrar": "XYZ Registrars",
      "t1ModStartDate": "04-01-2019",
      "t1ModEndDate": "04-01-2019",
      "t1ModStartTime": "10:00:00",
      "t1ModEndTime": "13:00:00",
      "categoryDetails": [
        {
          "code": "RETAIL",
          "startTime": "10:00:00",
          "endTime": "17:00:00"
        },
        {
          "code": "QIB",
          "startTime": "10:00:00",
          "endTime": "16:00:00"
        }
      ]
    }
  ],
}
```

```

        "subCategorySettings": [
        {
            "caCode": "QIB",
            "subCatCode": "FI",
            "minValue": 200001.00,
            "maxValue": 6841800000.00,
            "allowCutOff": false,
            "allowUpi": false
        },
        {
            "caCode": "RETAIL",
            "subCatCode": "IND",
            "minValue": 0.00,
            "maxValue": 200000.00,
            "allowCutOff": true,
            "discountType": "A",
            "discountPrice": 10,
            "allowUpi": true,
            "maxUpiLimit": 200000.00
        }
        ],
        {
            "symbol": "ONEMOREDEBTSSE",
            "name": "One More Services",
            "issueType": "DEBT",
            "subType": "SSE",
            "lotSize": 100,
            "minBidQuantity": 100,
            "faceValue": 110.00,
            "minPrice": 212.00,
            "maxPrice": 232.50,
            "tickSize": 1.00,
            "cutoffPrice": 232.50,
            "biddingStartDate": "08-01-2019",
            "biddingEndDate": "11-01-2019",
            "dailyStartTime": "10:00:00",
            "dailyEndTime": "17:00:00",
            "isin": "INE121212129",
            "issueSize": 50000000,
            "registrar": "PQR Registrars",
            "t1ModStartDate": "12-01-2019",
            "t1ModEndDate": "12-01-2019",
            "t1ModStartTime": "10:00:00",
            "t1ModEndTime": "13:00:00",
            "seriesDetails": [
                {
                    "code": "S1",
                    "desc": "Test1"
                }
            ]
        }
    ]
}

```

GET /<version>/allotment/{fromtime}/{totime}

This API allows user to download allotment data.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/allotment/{fromtime}/{totime}">https://&lt;baseurl&gt;/&lt;version&gt;/allotment/{fromtime}/{totime}</a>
Request	Path Parameter
Response	JSON

**Request Path Parameters**

Field	Type	Description
fromtime	DateTime	Transactions entered after this time will be returned in the response
totime	DateTime	Transactions entered before this time will be returned in the response

**Sample URL with Path Parameters**

```
https://<<baseurl>>/<version>/allotment/01-08-2024%2009:30:00/07-08-2024%2011:30:00
```

**Response JSON**

Field	Type	Description
status	String (10)	success / failed
reason	String (100)	Reason in case of failure
transactions	List of Objects	List Transaction details. See structure below

**Transactions Detail JSON**

Field	Type	Description
symbol	String (12)	Symbol
nameOfSecurity	String (250)	Name of the issue
applicationNumber	String (16)	Application No. (of the physical form)
panNumber	String (10)	PAN No.- Permanent Account Number
allotedQuantity	Number	Bid Allotted Quantity
price	Decimal	Bid Allotted Price.

**Sample Response - Success**

```
{
  "transactions": [
    {
      "symbol": "TESTIPO",
      "applicationNumber": "21454454",
      "price": 700.0,
      "nameOfSecurity": "Testing IPO",
      "allotedQuantity": 5,
      "panNumber": "KWWWP1234P"
    },
    {
      "symbol": "RESV01",
      "applicationNumber": "21454455",
      "price": 800.0,
      "nameOfSecurity": "ReserveCatLive",
      "allotedQuantity": 1000,
      "panNumber": "SIKKIMCATG"
    }
  ],
  "status": "success"
}
```

**Sample Response – Failed**

```
{
  "status": "failed",
  "reason": "No Records Found"
}
```

**POST /<version>/allotment/fetch**

This API allows user to download transactions for the given filter criteria.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/allotment/fetch">https://&lt;baseurl&gt;/&lt;version&gt;/allotment/fetch</a>
Request	JSON
Response	JSON

***Request JSON***

Field	Type	Description
symbol	String (12)	Mandatory Symbol
applicationNumber	String (16)	Optional Application Number
panNumber	String (10)	Optional Pan Number

**Sample Request**

```
{
  "symbol": "TESTSMEIPO",
  "applicationNumber": "K02072024006",
  "panNumber": "KWWWP1234P"
}
```

***Response JSON***

Field	Type	Description
status	String (10)	success / failed
reason	String (100)	Reason in case of failure
transactions	List of Objects	List Transaction response. See Response JSON Structure for API “GET /<version>/allotment/{time}”

**Sample Response - Success**

```
{
  "transactions": [
    {
      "symbol": "TESTIPO",
      "applicationNumber": "Testing IPO",
      "price": 700.0,
      "nameOfSecurity": "Testing IPO",
      "allotedQuantity": 5,
      "panNumber": "KWWWP1234P"
    },
    {
      "symbol": "RESV01",
      "applicationNumber": "Reserve Live",
      "price": 800.0,
      "nameOfSecurity": "ReserveCatLive",
      "allotedQuantity": 1000,
      "panNumber": "SIKKIMCATG"
    }
  ],
  "status": "success"
}
```

**Sample Response - Failed**

```
{
  "status": "failed",
  "reason": "No Records Found"
}
```

**POST/<version>/eforms/add**

This API allows user to add an application which can be used for generation of eForms (PDF)

<b>Method</b>	POST
<b>URL</b>	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/eforms/add">https://&lt;baseurl&gt;/&lt;version&gt;/eforms/add</a>
<b>Request</b>	JSON
<b>Response</b>	JSON

**Request JSON**

Field	Type	Description
symbol	String(12)	Symbol
depository	String(5)	Depository Name NSDL = NSDL CDSL = CDSL
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	String(16)	Client ID in case of NSDL Beneficiary ID in case of CDSL
pan	String(10)	PAN No.- Permanent Account Number
category	String(5)	Category code.
bankReferenceNo	String(60)	Input ASBA Blocking Ref No- Prefix D for Direct ASBA (Bank User) Prefix S for Syndicate ASBA (Bank User) Prefix T for 3IN1 account type bid (Member User). NON-MANDATORY for UPI bid.
bankAccountNo	String(45)	Optional Bank Account No
bankNameBranch	String(100)	Optional Bank Details. Bank Name, Branch Name
clientName	String(50)	Name of client
clientAddress	String(100)	Optional Client address
clientEmail	String(50)	Optional client email
clientTelephone	String(30)	Optional client telephone
formType	Number	Following values 1 = Non Repatriation 2 = Repatriation 3 = Employee / Shareholder
paymentType	String(4)	Following values FULL = Full payment PART = Partial payment
upiFlag	String(1)	Y = UPI Based Blocking N = Non UPI Based Blocking (ASBA)
Upi	String(45)	UPI of the investor client

		Mandatory and valid if upiFlag=Y
bankCode	String(6)	Optional Bank Code
locationCode	String(6)	Optional Location Code
chequeNumber	Number	Optional Cheque number Mandatory and valid if nonASBA = true
nonASBA	Boolean	Flag to indicate application is Non ASBA. Applicable only for DEBT segment true – Non ASBA false – ASBA (default)
syndMemCode	String(60)	Optional Syndicate Member Stamp Code
brokerCode	String(60)	Optional Broker Stamp Code
subBrokerCode	String(60)	Optional Sub Broker / Sub Agent Stamp Code
Bids	List of Objects	List of bid details. See structure below. Maximum 3 allowed

**Bid Detail JSON**

Field	Type	Description
quantity	Number	Optional Bid Quantity
atCutOff	Boolean	Cut off Indicator  true - if opting for cut off false- if not opting for cut off
price	Decimal	Bid Price. Mandatory and valid only if “atCutOff” = false. Should be greater than 0 and maximum 2 decimal places.
amount	Decimal	Bid Amount. Should be greater than 0 and maximum 2 decimal places.

**Sample Request**

```
{
  "symbol": "TEST",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "pan": "AFAKA2323L",
  "category": "IND",
  "bankReferenceNo": "BANKREF00001",
  "bankAccountNo": "121212121212",
  "bankNameBranch": "XYZ Bank, PQR Branch",
  "clientName": "Sumit Aggarwal",
  "clientAddress": "Lane no 1, Building A, nth Floor, Some Locality,
Some City",
  "clientEmail": "someemail@somedomain.com",
  "clientTelephone": "12121212",
  "formType": 1,
}
```



```

    "paymentType" : "FULL",
    "nonASBA": false,
    "upiFlag": "Y",
    "upi": "9393939393@upi",
    "bankCode": null,
    "locationCode" : null,
    "syndMemCode": "SYNDCODE001",
    "brokerCode": "BRKSTAMP001",
    "subBrokerCode": "SUBBROKERSTAMP001",
    "bids": [
      {
        "quantity": 100,
        "atCutOff": false,
        "price": 55.30,
        "amount": 5530.00
      },
      {
        "quantity": 110,
        "atCutOff": true,
        "amount": 5863.00
      }
    ]
  }
}

```

**Response JSON**

Field	Type	Description
symbol	String(12)	Symbol
applicationNumber	String(16)	Application No.(of the physical form)
depository	String(5)	Depository Name NSDL = NSDL CDSL = CDSL
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	String(16)	Client ID in case of NSDL Beneficiary ID in case of CDSL
pan	String(10)	PAN No.- Permanent Account Number
category	String(5)	Category code.
bankReferenceNo	String(60)	Input ASBA Blocking Ref No- Prefix D for Direct ASBA (Bank User) Prefix S for Syndicate ASBA (Bank User) Prefix T for 3IN1 account type bid (Member User). NON-MANDATORY for UPI bid.
bankAccountNo	String(45)	Optional Bank Account No
bankNameBranch	String(100)	Optional Bank Details. Bank Name, Branch Name
clientName	String(50)	Name of client
clientAddress	String(100)	Optional Client address
clientEmail	String(50)	Optional client email
clientTelephone	String(30)	Optional client telephone
formType	Number	Following values 1 = Non Repatriation 2 = Repatriation 3 = Employee / Shareholder
paymentType	String(4)	Following values

		FULL = Full payment PART = Partial payment
upiFlag	String(1)	Y = UPI Based Blocking N = Non UPI Based Blocking (ASBA)
Upi	String(45)	UPI of the investor client Mandatory and valid if logged in user is a bank and upiFlag=Y
bankCode	String(6)	Optional Bank Code
locationCode	String(6)	Optional Location Code
chequeNumber	Number	Optional Cheque number
nonASBA	Boolean	Flag to indicate application is Non ASBA. Applicable only for DEBT segment true – Non ASBA false – ASBA (default)
syndMemCode	String(60)	Optional Syndicate Member Stamp Code
brokerCode	String(60)	Optional Broker Stamp Code
subBrokerCode	String(60)	Optional Sub Broker / Sub Agent Stamp Code
Bids	List of Objects	List of bid details. See structure below. Maximum 3 allowed

**Bid Detail JSON**

Field	Type	Description
quantity	Number	Optional Bid Quantity
atCutOff	Boolean	Cut off Indicator true - if opting for cut off false- if not opting for cut off
Price	Decimal	Bid Price. Mandatory and valid only if "atCutOff" = false. Should be greater than 0 and maximum 2 decimal places.
amount	Decimal	Bid Amount. Should be greater than 0 and maximum 2 decimal places.

**Sample Response**

```
{
  "symbol": "TEST",
  "applicationNumber": "1231231231123",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "pan": "AFAKA2323L",
  "category": "IND",
  "bankReferenceNo": "BANKREF00001",
  "bankAccountNo": "121212121212",
  "bankNameBranch": "XYZ Bank, PQR Branch",
  "clientName": "Sumit Aggarwal",
  "clientAddress": "Lane no 1, Building A, nth Floor, Some Locality,
Some City",
  "clientEmail": "someemail@somedomain.com",
```

```

    "clientTelephone" : "12121212",
    "formType" : 1,
    "chequeNumber": "",
    "paymentType" : "FULL",
    "nonASBA": false,
    "upiFlag": "Y",
    "upi": "9393939393@upi",
    "bankCode": null,
    "locationCode" : null,
    "syndMemCode": "SYNDPCODE001",
    "brokerCode": "BRKSTAMP001",
    "subBrokerCode": "SUBBROKERSTAMP001",
    "bids": [
        {
            "quantity": 100,
            "atCutOff": false,
            "price": 55.30,
            "amount": 5530.00
        },
        {
            "quantity": 110,
            "atCutOff": true,
            "amount": 5863.00
        }
    ]
}

```

**Sample Response - Failed**

```

{
  "status": "failed",
  "reason": "Xyz"
}

```

**POST/<version>/eforms/query**

This API allows user to query uploaded eForms data based on input filters

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/eforms/query">https://&lt;baseurl&gt;/&lt;version&gt;/eforms/query</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
symbol	String(12)	Mandatory Symbol
fromApplicationNumber	String(16)	Mandatory. Response will include all applications from this application number onwards (inclusive)
toApplicationNumber	String(16)	Optional. Response will include all applications upto this number (inclusive)

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
eforms	List of Objects	List eForms. See Response JSON Structure for API "POST /<version>/eforms/add"

**Sample Response - Success**

```

{
  "status": "success",
  "eforms" : [
    {
      "symbol": "TEST",
      "applicationNumber": "1231231231120",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "pan": "AFAKA2323L",
      "category": "IND",
      "bankReferenceNo": "BANKREF00001",
      "bankAccountNo": "121212121212",
      "bankNameBranch": "XYZ Bank, PQR Branch",
      "clientName": "Sumit Aggarwal",
      "clientAddress" : "Lane no 1, Building A, nth Floor, Some
Locality, Some City",
      "clientEmail" : "someemail@somedomain.com",
      "clientTelephone" : "12121212",
      "formType" : 1,
      "paymentType" : "FULL",
      "nonASBA": false,
      "upiFlag": "Y",
      "upi": "9393939393@upi",
      "bankCode": null,
      "locationCode" : null,
      "syndMemCode": "SYNDCODE001",
      "brokerCode": "BRKSTAMP001",
      "subBrokerCode": "SUBBROKERSTAMP001",
      "bids": [
        {
          "quantity": 100,
          "atCutOff": false,
          "price": 55.30,
          "amount": 5530.00
        },
        {
          "quantity": 110,
          "atCutOff": true,
          "amount": 5863.00
        }
      ]
    },
    {
      "symbol": "TEST",
      "applicationNumber": "1231231231123",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "pan": "AFAKA2323L",
      "category": "IND",
      "bankReferenceNo": "BANKREF00001",
      "bankAccountNo": "121212121212",
      "bankNameBranch": "XYZ Bank, PQR Branch",
      "clientName": "Sumit Aggarwal",
      "clientAddress" : "Lane no 1, Building A, nth Floor, Some
Locality, Some City",
      "clientEmail" : "someemail@somedomain.com",
      "clientTelephone" : "12121212",
      "formType" : 1,

```

```

    "paymentType" : "FULL",
    "nonASBA": false,
    "bankCode": "9999",
    "locationCode" : "NASBAL",
    "syndMemCode": "SYNDCODE001",
    "brokerCode": "BRKSTAMP001",
    "subBrokerCode": "SUBBROKERSTAMP001",
    "bids": [
      {
        "quantity": 100,
        "atCutOff": false,
        "price": 55.30,
        "amount": 5530.00
      },
      {
        "quantity": 110,
        "atCutOff": true,
        "amount": 5863.00
      }
    ]
  }
]

```

**Sample Response - Failed**

```

{
  "status": "failed",
  "reason": "Xyz"
}

```

**GET /<version>/ncbmaster**

This API allows user to download NCB master.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/ncbmaster">https://&lt;baseurl&gt;/&lt;version&gt;/ncbmaster</a>
Request	None
Response	JSON

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	reason
data	List of Objects	List of NCB Master objects

**NCBMaster Object JSON Structure**

Field	Type	Description
symbol	String(12)	Symbol
series	String(2)	Series
name	String(250)	Name of the issue
lotSize	Number	Bidding Lot Size
faceValue	Decimal	Face value
minBidQuantity	Number	Optional Minimum Quantity for Bidding
minPrice	Decimal	Optional Minimum Price
maxPrice	Decimal	Optional Maximum Price
tickSize	Decimal	Tick Size

cutoffPrice	Decimal	Cutoff price
biddingStartDate	Date	First Date of bidding
biddingEndDate	Date	Last Date of normal bidding
dailyStartTime	Time	Bidding start time for the current day
dailyEndTime	Time	Bidding end time for the current day
t1ModStartDate	Date	First Date of T1 modification
t1ModEndDate	Date	Last Date of T1 modification
t1ModStartTime	Time	Start time for T1 modification
t1ModEndTime	Time	End time for T1 modification
isin	String(12)	Isin
issueSize	Number	Issue size
issueValueSize	Number	Issue value size
maxQuantity	Number	Max quantity
allotmentDate	DATE	Allotment date
lastDayBiddingEndTime	DATETIME	Last day bidding enddate//time

**Sample Response**

```

Success: {
  "data": [
    {
      "biddingStartDate": "01-11-2018",
      "symbol": "TEST",
      "minBidQuantity": 10,
      "maxQuantity": 20000000,
      "lotSize": 10,
      "t1ModEndDate": "02-11-2018",
      "dailyStartTime": "15:30:00",
      "allotmentDate": "",
      "t1ModStartTime": "20:30:00",
      "biddingEndDate": "10-12-2018",
      "t1ModEndTime": "21:00:00",
      "dailyEndTime": "11:30:00",
      "tickSize": 100,
      "cutoffPrice": "0205GS",
      "series": "GS",
      "faceValue": 1000,
      "minPrice": 0,
      "t1ModStartDate": "02-11-2018",
      "issueValueSize": 0,
      "name": "0205GS",
      "issueSize": 100000000,
      "lastDayBiddingEndTime": "",
      "maxPrice": 0,
      "isin": "IN0020150044"
    },
    {
      "biddingStartDate": "01-02-2017",
      "symbol": "TEST1",
      "minBidQuantity": 10000,
      "maxQuantity": 20000000,
      "lotSize": 10000,
      "t1ModEndDate": "03-07-2019",
      "dailyStartTime": "",
      "allotmentDate": "",
      "t1ModStartTime": "",
      "biddingEndDate": "02-07-2019",
      "t1ModEndTime": "",
      "dailyEndTime": ""
    }
  ]
}

```

```

    "tickSize": 0,
    "cutoffPrice": "078GS2030",
    "series": "01",
    "faceValue": 10000,
    "minPrice": 0,
    "t1ModStartDate": "03-07-2019",
    "issueValueSize": 0,
    "name": "7.88% CG2030",
    "issueSize": 100000000,
    "lastDayBiddingEndTime": "",
    "maxPrice": 0,
    "isin": "IN0020150028"
  },
  {
    "biddingStartDate": "13-01-2017",
    "symbol": "TEST2",
    "minBidQuantity": 100,
    "maxQuantity": 100000,
    "lotSize": 100,
    "t1ModEndDate": "03-07-2019",
    "dailyStartTime": "09:00:00",
    "allotmentDate": "",
    "t1ModStartTime": "07:00:00",
    "biddingEndDate": "02-07-2019",
    "t1ModEndTime": "13:00:00",
    "dailyEndTime": "23:00:00",
    "tickSize": 10000,
    "cutoffPrice": "625CG2022",
    "series": "GS",
    "faceValue": 10000,
    "minPrice": 0,
    "t1ModStartDate": "03-07-2019",
    "issueValueSize": 0,
    "name": "6.25",
    "issueSize": 100000000,
    "lastDayBiddingEndTime": "",
    "maxPrice": 0,
    "isin": "INE00124571A"
  }
],
"status": "success"
}

```

### POST/<version>/ncb/add

This API allows user to add / modify / cancel an application

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/ncb/add">https://&lt;baseurl&gt;/&lt;version&gt;/ncb/add</a>
Request	JSON
Response	JSON

#### Request JSON

Field	Type	Description
symbol	String(12)	Symbol
investmentValue	Number	Invested Value
applicationNumber	String(16)	

orderNumber	Number	In case of Modification and Deletion only
price	Decimal	Bid Price.
physicalDematFlag	String(1)	D= Demat
pan	String(10)	PAN No.- Permanent Account Number
depository	String(4)	Depository Name (NSDL, CDSL)
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
clientRefNumber	String(16)	Reference Number- Internal reference number
activityType	String(1)	N=New M=Modify D=Delete

**Sample Request**

```
{
  "symbol": "TEST",
  "investmentValue": 100,
  "applicationNumber": "1200299929020",
  "price": 55,
  "physicalDematFlag": "D",
  "pan": "AFAKA2323L",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "activityType": "N",
  "clientRefNumber": "MYREF0001",
}
```

**Response JSON**

Field	Type	Description
symbol	String(12)	Symbol
orderNumber	Number	Order Number
series	String(2)	Series
applicationNumber	String(16)	Application No.(of the physical form)
investmentValue	Number	invested Quantity
price	Decimal	Bid Price.
totalAmountPayable	Decimal	Total Amount Payable
physicalDematFlag	String(1)	D= Demat
pan	String(10)	PAN No.- Permanent Account Number
depository	String(4)	Depository Name (NSDL, CDSL)
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
clientRefNumber	String(16)	Reference Number- Internal reference number
orderStatus	String(2)	ES = Entry success EF = Entry Fail MS = Modify Success



		MF = Modify Fail CS = Cancel Success CF = Cancel Fail
rejectionReason	String(100)	Rejection reason
enteredBy	String(25)	Enter By
entryTime	DATETIME	Entry time
verificationStatus	String(1)	P = Pending S = Verified F= Verification failed
verificationReason	String(100)	Verification Reason
clearingStatus	String(2)	FP = Fund Pending FS = Sent to NSCCL RJ = Rejected AL = Allotted
clearingReason	String(100)	Clearing Reason
lastActionTime	DATETIME	Last action time
status	String	success/failed
reason	String(100)	Reason text

**Sample Response**

```

Success: {
  "symbol": "TEST",
  "orderNumber": 2019042500000003,
  "series": "GS",
  "applicationNumber": "1200299929020",
  "investmentValue": 100,
  "price": 10500,
  "totalAmountPayable": 10500,
  "physicalDematFlag": "D",
  "pan": "AFAKA2323L",
  "depository": "NSDL",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "clientRefNumber": "MYREF0001",
  "orderStatus ": "ES",
  "rejectionReason ": null,
  "enteredBy ": "samir",
  "entryTime ": "25-04-2019 12:39:01",
  "verificationStatus ": "P",
  "verificationReason ": null,
  "clearingStatus ": "FP",
  "clearingReason ": "",
  "LastActionTime ": "25-04-2019 12:39:01",
  "status" : "success"
}

```

GET /<version>/ncb/{time}

This API allows user to download NCB transactions.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/ncb/{time}">https://&lt;baseurl&gt;/&lt;version&gt;/ncb/{time}</a>
Request	Path Parameters
Response	JSON

**Request Path Parameters**

Field	Type	Description
-------	------	-------------

time	DateTime	Cutoff date time. Transactions entered after this time will be returned in the response
------	----------	---

**Sample URL with Path Parameters**

<https://www.nseindiaipo.com/eipo/<version>/ncb/01-12-2015%2009:30:00>

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
transactions	List of Objects	List Transaction responses. See Response JSON Structure for API "POST /<version>/ncb/add"

**Sample Response - Success**

```

Success: {
  "transactions": [
    {
      "symbol": "TEST",
      "clearingStatus": "FP",
      "orderNumber": 2017011300000001,
      "depository": "NSDL",
      "clearingReason": "",
      "applicationNumber": "TMNSEIL000000001",
      "verificationStatus": "P",
      "physicalDematFlag": "D",
      "LastActionTime": "13-01-2017 14:57:16",
      "dpId": "IN301245",
      "orderStatus": "ES",
      "enteredBy": "NSEIL",
      "entryTime": "13-01-2017 14:57:16",
      "investmentValue": 100,
      "series": "GS",
      "price": 0,
      "totalAmountPayable": 0,
      "clientRefNumber": "",
      "pan": "AISPG3152H",
      "rejectionReason": "",
      "clientBenId": "31412547",
      "verificationReason": "",
      "status": "success"
    },
    {
      "symbol": "TEST2",
      "clearingStatus": "FP",
      "orderNumber": 2017011300000003,
      "depository": "CDSL",
      "clearingReason": "",
      "applicationNumber": "TMNSEIL000000003",
      "verificationStatus": "P",
      "physicalDematFlag": "D",
      "LastActionTime": "13-01-2017 14:59:24",
      "dpId": "",
      "orderStatus": "ES",
      "enteredBy": "NSEIL",
      "entryTime": "13-01-2017 14:59:24",
      "investmentValue": 1200,
    }
  ]
}

```

```

    "series": "GS",
    "price": 0,
    "totalAmountPayable": 0,
    "clientRefNumber": "",
    "pan": "AISPG31520",
    "rejectionReason": "",
    "clientBenId": "1234567898741236",
    "verificationReason": "",
    "status": "success"
  }
],
"status": "success"
}

```

**Sample Response – Failed**

```

{
  "status": "failed",
  "reason": "No Records Found"
}

```

**POST /<version>/ncb/fetch**

This API allows user to download NCB transactions for the given filter criteria.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/ncb/fetch">https://&lt;baseurl&gt;/&lt;version&gt;/ncb/fetch</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
symbol	String(12)	Mandatory Symbol
applicationNumber	String(16)	Mandatory Application No.(of the physical form)

**Sample Request**

```

{"symbol": "TEST", "applicationNumber": "1200299929020"}

```

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
transactions	List of Objects	List Transaction response. See Response JSON Structure for API "POST /<version>/ncb/add"

**Sample Response - Success**

```

Success: {
  "transactions": [
    {
      "symbol": "TEST",
      "clearingStatus": "FP",
      "orderNumber": 2019042500000003,
      "depository": "CDSL",

```

```

    "clearingReason": "",
    "applicationNumber": "1200299929020",
    "verificationStatus": "P",
    "physicalDematFlag": "D",
    "LastActionTime": "16-01-2017 12:17:52",
    "dpId": "",
    "orderStatus": "ES",
    "enteredBy": "NSEIL",
    "entryTime": "16-01-2017 12:17:52",
    "investmentValue": 20000,
    "series": "GS",
    "price": 10600,
    "totalAmountPayable": 2120000,
    "clientRefNumber": "",
    "pan": "ANPPM5867P",
    "rejectionReason": "",
    "clientBenId": "1201090000365411",
    "verificationReason": "",
    "status": "success"
  }
],
"status": "success"
}

```

**Sample Response - Failed**

```

{
  "status": "failed",
  "reason": "No Records Found"
}

```

**GET /<version>/ncb/mismatches/{symbol}**

This API allows user to download mismatches.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/ncb/mismatches/{symbol}">https://&lt;baseurl&gt;/&lt;version&gt;/ncb/mismatches/{symbol}</a>
Request	Path Parameters
Response	JSON

**Request Path Parameters**

Field	Type	Description
Symbol	String(12)	Issue Symbol

**Sample URL with Path Parameters**

```
https://<baseurl>/eipo/<version>/ncb/mismatches/TESTSYM01
```

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	reason
mismatches	List of Objects	List of Mismatch objects

**Mismatch Object JSON Structure**

Field	Type	Description
-------	------	-------------

Symbol	String(12)	Symbol
applicationNumber	String(16)	
orderNumber	Number	In case of Modification and Deletion only
physicalDematFlag	String(1)	D= Demat
pan	String(10)	PAN No.- Permanent Account Number
depository	String(4)	NSDL CDSL
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	String(16)	Client ID in case of NSDL Beneficiary ID in case of CDSL
reason	String(250)	Reason text

**Sample Response**

```
{
  "status": "success",
  "notifications": [
    {
      "symbol": "TEST",
      "orderNumber": 20190425000000003,
      "applicationNumber": "1200299929020",
      "physicalDematFlag": "D",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "pan": "AFAKA2323L",
      "reason": "Account does not exist"
    },
    {
      "symbol": "TEST",
      "orderNumber": 20190425000000004,
      "applicationNumber": "1200299929025",
      "physicalDematFlag": "D",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345679",
      "pan": "AFAKA2326L",
      "reason": "Account does not exist"
    }
  ]
}
```

**GET /<version>/tendermaster**

This API allows user to download tender master.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/tendermaster">https://&lt;baseurl&gt;/&lt;version&gt;/tendermaster</a>
Request	None
Response	JSON

**Response JSON**

Field	Type	Description
status	String(10)	success / failed

reason	String(100)	reason
data	List of Objects	List of tender Master objects

***TenderMaster Object JSON Structure***

Field	Type	Description
symbol	String(12)	Symbol
series	String(2)	Series
name	String(250)	Name of the issue
lotSize	Number	Bidding Lot Size
faceValue	Decimal	Face value
minBidQuantity	Number	Optional Minimum Quantity for Bidding
minPrice	Decimal	Optional Minimum Price
maxPrice	Decimal	Optional Maximum Price
tickSize	Decimal	Tick Size
cutoffPrice	Decimal	Cutoff price
biddingStartDate	Date	First Date of bidding
biddingEndDate	Date	Last Date of normal bidding
dailyStartTime	Time	Bidding start time for the current day
dailyEndTime	Time	Bidding end time for the current day
registrar	String(100)	Name of registrar
isin	String(12)	Isin
issueSize	Number	Issue size
issueValueSize	Number	Issue value size
maxQuantity	Number	Max quantity

**Sample Response**

```
{
  "status": "success",
  "data": [{
    "symbol": "TEST",
    "series": "BB",
    "name": "Test Industries",
    "lotSize": 1,
    "faceValue": 10.00,
    "minBidQuantity": "100 ",
    "minPrice": 12.00,
    "maxPrice": 12.50,
    "tickSize": 0.05,
    "cutoffPrice": 12.50,
    "biddingStartDate": "01-01-2019",
    "biddingEndDate": "03-01-2019",
    "dailyStartTime": "10:00:00",
    "dailyEndTime": "17:00:00",
    "isin": "INE121212121",
    "issueSize": 150000000,
    "issueValueSize": 0.00,
    "registrar": "XYZ Registrars",
    "maxQuantity": 4563,
  }]
}
```

**POST/<version>/epi**

This API allows user to fetch the EPI for a DP Id and Client Ben Id in tender.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/api">https://&lt;baseurl&gt;/&lt;version&gt;/api</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
symbol	String(12)	Symbol
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	String(16)	Client ID in case of NSDL Beneficiary ID in case of CDSL

**Sample Request**

```
{
  "symbol": "TEST",
  "dpId": "33445566",
  "clientBenId": "12345678",
}
```

**Response JSON**

Field	Type	Description
memberCode	String(12)	Member code
symbol	String(12)	Symbol
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	String(16)	Client ID in case of NSDL Beneficiary ID in case of CDSL
qty	Number	Quantity
blockedQty	Number	Blocked Quantity
balanceQty	Number	Balanced Quantity
status	String	success/failed
reasonCode	Number	Fail reason code. Valid only if "status" = "failed"
reason	String(100)	Reason text

**Sample Response**

```
{
  "symbol": "TEST",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "qty": 5000,
  "blockeQty": 24,
  "balanceQty": 4976,
  "status" : "success"
}
```

**POST/<version>/tender/add**

This API allows user to add / modify / cancel an application in tender.

<b>Method</b>	POST
<b>URL</b>	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/tender/add">https://&lt;baseurl&gt;/&lt;version&gt;/tender/add</a>
<b>Request</b>	JSON
<b>Response</b>	JSON

***Request JSON***

Field	Type	Description
symbol	String(12)	Symbol
series	String(2)	Series
applicationNumber	String(20)	Application No.(of the physical form)
category	String(5)	Category code.
bidQuantity	Number	Bid Quantity
price	Decimal	Bid Price. Mandatory and valid only if "atCutOff" = false. Should be greater than 0 and maximum 2 decimal places.
clientName	String(50)	Optional Client Name – Name of client
clientCode	String(10)	Client Code
cpCode	String(12)	Cp Code
physicalDematFlag	String(1)	P= physical D= Demat
depository	String(5)	Depository Name (NSDL, CDSL)
pan	String(10)	PAN No.- Permanent Account Number
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
folioNo	String(16)	Folio No
certificate1	String(16)	Certificate 1
distinctiveFrom1	String(16)	Distinctive From 1
distinctiveTo1	String(16)	Distinctive To 1
certificate2	String(16)	Certificate 2
distinctiveFrom2	String(16)	Distinctive From 2
distinctiveTo2	String(16)	Distinctive To 2
certificate3	String(16)	Certificate 3
distinctiveFrom3	String(16)	Distinctive From 3
distinctiveTo3	String(16)	Distinctive To 3
reference	String(16)	Reference Number- Internal reference number
orderNumber	Number	Order number
activityType	String(2)	ER = Entry request MR = Modify Request CR = Cancel Request

**Sample Request**

```
{
  "symbol": "TEST",
  " series ": "BB",
```



```

    "applicationNumber": "1200299929020",
    "category": "IND",
    "bidQuantity": 100,
    "price": 55.30,
    "clientName": "Sumit Aggarwal",
    "clientCode": "326Q2",
    "cpCode": "CITI12345",
    "physicalDematFlag": "P",
    "depository": null,
    "pan": "AFAKA2323L",
    "dpId": null,
    "clientBenId": null,
    "folioNo": "ABF001",
    "certificate1": "21035",
    "distinctiveFrom1": "10015",
    "distinctiveTo1": "100125",
    "referenceNumber": "MYREF0001",
    "orderNumber" : "20190406",
    "activityType" : "ER"
}

```

#### IN CASE PHYSICAL/DEMATFLAG IS DEMAT

```

{
    "symbol": "TEST",
    "series": "BB",
    "applicationNumber": "1200299929020",
    "category": "IND",
    "bidQuantity": 100,
    "price": 55.30,
    "clientName": "Sumit Aggarwal",
    "clientCode": "326Q2",
    "cpCode": "CITI12345",
    "physicalDematFlag": "D",
    "depository": "NSDL",
    "pan": "AFAKA2323L",
    "dpId": "33445566",
    "clientBenId": "12345678",
    "folioNo": null,
    "certificate1": null,
    "distinctiveFrom1": null,
    "distinctiveTo1": null,
    "referenceNumber": "MYREF0001",
    "orderNumber" : "20190406",
    "activityType" : "ER"
}

```

#### Response JSON

Field	Type	Description
symbol	String(12)	Symbol
series	String(2)	Series
applicationNumber	String(20)	Application No.(of the physical form)
category	String(5)	Category code.
bidQuantity	Number	Bid Quantity
price	Decimal	Bid Price. Mandatory and valid only if "atCutOff" = false. Should be greater than 0 and maximum 2 decimal places.

clientName	String(50)	Optional Client Name – Name of client
clientCode	String(10)	Client Code
cpCode	String(12)	Cp Code
physical/Demat Flag	String(1)	P= physical D= Demat
depository	String(5)	Depository Name (NSDL, CDSL)
pan	String(10)	PAN No.- Permanent Account Number
dpId	String(8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
folioNo	String(16)	Folio No
certificate1	String(16)	Certificate 1
distinctiveFrom1	String(16)	Distinctive From 1
distinctiveTo1	String(16)	Distinctive To 1
certificate2	String(16)	Certificate 2
distinctiveFrom2	String(16)	Distinctive From 2
distinctiveTo2	String(16)	Distinctive To 2
certificate3	String(16)	Certificate 3
distinctiveFrom3	String(16)	Distinctive From 3
distinctiveTo3	String(16)	Distinctive To 3
orderStatus	String (2)	ES = Entry success EF = Entry Fail MS = Modify Success MF = Modify Fail CS = Cancel Success CF = Cancel Fail
reference	String(16)	Reference Number- Internal reference number
status	String	success/failed
reasonCode	Number	Fail reason code. Valid only if “status” = “failed”
reason	String(100)	Reason text

**Sample Response**

```
{
    "symbol": "TEST",
    "series": "BB",
    "applicationNumber": "1200299929020",
    "category": "IND",
    "bidQuantity": 100,
    "price": 55.30,
    "clientName": "Sumit Aggarwal",
    "clientCode": "326Q2",
    "cpCode": "CITI12345",
    "physical/DematFlag": "P",
    "depository": null,
    "pan": "AFAKA2323L",
```

```

    "dpId": null,
      "clientBenId": null,
    "folioNo": "ABF001",
    "certificate1": "21035",
    "distinctiveFrom1": "10015",
    "distinctiveTo1": "100125",
    "referenceNumber": "MYREF0001",
    "orderNumber" : "20190406",
    "activityType" : "ES",
      "status" : "success"
  }

```

#### IN CASE PHYSICAL/DEMATFLAG IS DEMAT

```

{
    "symbol": "TEST",
    "series": "BB",
    "applicationNumber": "1200299929020",
    "category": "IND",
    "bidQuantity": 100,
    "price": 55.30,
    "clientName": "Sumit Aggarwal",
    "clientCode": "326Q2",
    "cpCode": "CITI12345",
    "physical/DematFlag": "D",
    "depository": "NSDL",
    "pan": "AFAKA2323L",
    "dpId": "33445566",
    "clientBenId": "12345678",
    "folioNo": null,
    "certificate1": null,
    "distinctiveFrom1": null,
    "distinctiveTo1": null,
    "referenceNumber": "MYREF0001",
    "orderNumber" : "20190406",
    "activityType" : "ES",
      "status" : "success"
}

```

#### GET /<version>/tender/{{time}}

This API allows user to download transactions entered after a particular time.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/tender/{{time}}">https://&lt;baseurl&gt;/&lt;version&gt;/tender/{{time}}</a>
Request	Path Parameters
Response	JSON

#### Request Path Parameters

Field	Type	Description
time	DateTime	Cutoff date time. Transactions entered after this time will be returned in the response

#### Sample URL with Path Parameters

```
https://<baseurl>/<version>/tender/01-12-2015%2009:30:00
```

#### Response JSON

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
transactions	List of Objects	List Transaction responses. See Response JSON Structure for API “POST /<version>/tender/add”

**Sample Response - Success**

```
{
  "symbol": "TEST",
  "series": "BB",
  "applicationNumber": "1200299929020",
  "category": "IND",
  "bidQuantity": 100,
  "price": 55.30,
  "clientName": "Sumit Aggarwal",
  "clientCode": "326Q2",
  "cpCode": "CITI12345",
  "physicalDematFlag": "P",
  "depository": null,
  "pan": "AFAKA2323L",
  "dpId": null,
  "clientBenId": null,
  "folioNo": "ABF001",
  "certificate1": "21035",
  "distinctiveFrom1": "10015",
  "distinctiveTo1": "100125",
  "referenceNumber": "MYREF0001",
  "orderNumber": "20190406",
  "activityType": "ER",
  "status": "success"
}
```

**IN CASE PHYSICAL/DEMATFLAG IS DEMAT**

```
{
  "symbol": "TEST",
  "series": "BB",
  "applicationNumber": "1200299929020",
  "category": "IND",
  "bidQuantity": 100,
  "price": 55.30,
  "clientName": "Sumit Aggarwal",
  "clientCode": "326Q2",
  "cpCode": "CITI12345",
  "physicalDematFlag": "D",
  "depository": "NSDL",
  "pan": "AFAKA2323L",
  "dpId": "33445566",
  "clientBenId": "12345678",
  "folioNo": null,
  "certificate1": null,
  "distinctiveFrom1": null,
  "distinctiveTo1": null,
  "referenceNumber": "MYREF0001",
  "orderNumber": "20190406",
  "activityType": "ER",
  "status": "success"
}
```

**Sample Response – Failed**

```
{
  "status": "failed",
  "reason": "No Records Found"
}
```

**POST /<version>/tender/fetch**

This API allows user to download tender transactions for the given filter criteria.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/tender/fetch">https://&lt;baseurl&gt;/&lt;version&gt;/tender/fetch</a>
Request	JSON
Response	JSON

***Request JSON***

Field	Type	Description
symbol	String(12)	Mandatory Symbol
applicationNumber	String(20)	Mandatory Application No.(of the physical form)

**Sample Request**

```
{"symbol": "TEST", "applicationNumber": "1200299929020"}
```

***Response JSON***

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	Reason in case of failure
transactions	List of Objects	List Transaction response. See Response JSON Structure for API “POST /<version>/tender/add”

**Sample Response - Success**

```
{
  "status": "success",
  "transactions" : [
    {
      "symbol": "TEST",
      "series": "BB",
      "applicationNumber": "1200299929020",
      "category": "IND",
      "bidQuantity": 100,
      "price": 55.30,
      "clientName": "Sumit Aggarwal",
      "clientCode": "326Q2",
      "cpCode": "CITI12345",
      "physicalDematFlag": "P",
      "depository": null,
      "pan": "AFAKA2323L",
      "dpId": null,
      "clientBenId": null,
      "folioNo": "ABF001",
      "certificate1": "21035",
      "distinctiveFrom1": "10015",
      "distinctiveTo1": "100125",
      "referenceNumber": "MYREF0001",
      "orderNumber": "20190406",
    }
  ]
}
```

```

        "activityType" : "ER",
        "status" : "success"
    }
]
}

IN CASE PHYSICAL/DEMATFLAG IS DEMAT
{
    "status": "success",
    "transactions" : [{
        "symbol": "TEST",
        "series": "BB",
        "applicationNumber": "1200299929020",
        "category": "IND",
        "bidQuantity": 100,
        "price": 55.30,
        "clientName": "Sumit Aggarwal",
        "clientCode": "326Q2",
        "cpCode": "CITI12345",
        "physicalDematFlag": "D",
        "depository": "NSDL",
        "pan": "AFAKA2323L",
        "dpId": "33445566",
        "clientBenId": "12345678",
        "folioNo": null,
        "certificate1": null,
        "distinctiveFrom1": null,
        "distinctiveTo1": null,
        "referenceNumber": "MYREF0001",
        "orderNumber": "20190406",
        "activityType": "ER",
        "status": "success"
    }]
}

```

**Sample Response - Failed**

```

{
    "status": "failed",
    "reason": "No Records Found"
}

```

**GET /<version>/sgbmaster**

This API allows user to download SGB master.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgbmaster">https://&lt;baseurl&gt;/&lt;version&gt;/sgbmaster</a>
Request	NONE
Response	JSON

**Response JSON**

Field	Type	Description
status	String (10)	success / failed
reason	String (100)	reason
data	List of Objects	List of SGB Master objects

**SGBMaster Object JSON Structure**

Field	Type	Description
symbol	String (12)	Symbol
series	String (2)	Series
name	String (250)	Name of the issue
issueType	String (10)	Type of Issue.
lotSize	Number	Bidding Lot Size
faceValue	Decimal	Face value
minBidQuantity	Number	Optional Minimum Quantity for Bidding
minPrice	Decimal	Minimum Price will be considered as Online Price
maxPrice	Decimal	Maximum Price will be considered as Offline Price
tickSize	Decimal	Tick Size
biddingStartDate	Date	First Date of bidding
biddingEndDate	Date	Last Date of normal bidding
dailyStartTime	Time	Bidding start time for the current day
dailyEndTime	Time	Bidding end time for the current day
t1ModStartDate	Date	First Date of T1 modification
t1ModEndDate	Date	Last Date of T1 modification
t1ModStartTime	Time	Start time for T1 modification
t1ModEndTime	Time	End time for T1 modification
Isin	String (12)	Isin
issueSize	Number	Issue size
issueValueSize	Number	Issue value size
maxQuantity	Number	Max quantity
allotmentDate	DATE	Allotment date
incompleteModEndDate	DATE	Incomplete Modification end date

### Sample Response

```

Success: {
  "data": [
    {
      "biddingStartDate": "01-11-2018",
      "symbol": "TEST",
      "issueType": "GB",
      "minBidQuantity": 10,
      "maxQuantity": 20000000,
      "lotSize": 10,
      "t1ModEndDate": "02-11-2018",
      "dailyStartTime": "15:30:00",
      "allotmentDate": "",
      "t1ModStartTime": "20:30:00",
      "biddingEndDate": "10-12-2018",
      "t1ModEndTime": "21:00:00",
      "dailyEndTime": "11:30:00",
      "tickSize": 100,
      "series": "GB",
      "faceValue": 1000,
      "minPrice": 0,
      "t1ModStartDate": "02-11-2018",
      "issueValueSize": 0,
      "name": "Sovereign Gold Bond",
      "issueSize": 100000000,
    }
  ]
}

```

```
    "incompleteModEndDate ": "",
    "maxPrice": 0,
    "isin": "IN0020150044"
  },
  {
    "biddingStartDate": "01-02-2017",
    "symbol": "TEST1",
    "issueType": "GB",
    "minBidQuantity": 10000,
    "maxQuantity": 20000000,
    "lotSize": 10000,
    "t1ModEndDate": "03-07-2019",
    "dailyStartTime": "",
    "allotmentDate": "",
    "t1ModStartTime": "",
    "biddingEndDate": "02-07-2019",
    "t1ModEndTime": "",
    "dailyEndTime": "",
    "tickSize": 0,
    "series": "GB",
    "faceValue": 10000,
    "minPrice": 0,
    "t1ModStartDate": "03-07-2019",
    "issueValueSize": 0,
    "name": "Sovereign Gold Bond",
    "issueSize": 100000000,
    "incompleteModEndDate": "",
    "maxPrice": 0,
    "isin": "IN0020150028"
  },
  {
    "biddingStartDate": "13-01-2017",
    "symbol": "TEST2",
    "minBidQuantity": 100,
    "maxQuantity": 100000,
    "lotSize": 100,
    "t1ModEndDate": "03-07-2019",
    "dailyStartTime": "09:00:00",
    "allotmentDate": "",
    "t1ModStartTime": "07:00:00",
    "biddingEndDate": "02-07-2019",
    "t1ModEndTime": "13:00:00",
    "dailyEndTime": "23:00:00",
    "tickSize": 10000,
    "series": "GB",
    "faceValue": 10000,
    "minPrice": 0,
    "onlinePrice": 3000,
    "offlinePrice": 3500,
    "t1ModStartDate": "03-07-2019",
    "issueValueSize": 0,
    "name": "Sovereign Gold Bond",
    "issueSize": 100000000,
    "incompleteModEndDate": "",
    "maxPrice": 0,
    "isin": "INE00124571A"
  }
],
"status": "success"
}
```



**POST/<version>/sgb/add**

This API allows user to add / modify / cancel an application

<b>Method</b>	POST
<b>URL</b>	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgb/add">https://&lt;baseurl&gt;/&lt;version&gt;/sgb/add</a>
<b>Request</b>	JSON
<b>Response</b>	JSON

***Request JSON***

Field	Type	Description
symbol	String (12)	Symbol
orderNumber	Number	Mandatory In case of Modification and Cancellation else ignored
price	Decimal	Online Price: - Min Issue Price Offline Price: - Max Issue Price
quantity	Number	Bid Quantity
physicalDematFlag	String (1)	D = Demat P = Physical
clientCode	String (10)	Valid client code for Physical order else ignored
pan	String (10)	PAN No.- Permanent Account Number
depository	String (4)	Depository Name (NSDL, CDSL)
dpId	String (8)	DP ID - Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
clientRefNumber	String (16)	Reference Number- Internal reference number
activityType	String (2)	ER = Entry request MR = Modify Request CR = Cancel Request

**Sample Request**

```
[
  {
    "symbol": "TEST",
    "quantity": 100,
    "price": 55,
    "physicalDematFlag": "D",
    "pan": "AFAKA2323L",
    "depository": "NSDL",
    "dpId": "33445566",
    "clientBenId": "12345678",
    "activityType": "ER",
    "clientRefNumber": "MYREF0001"
  }
]
```

***Response JSON***

Field	Type	Description
symbol	String (12)	Symbol
orderNumber	Number	Order Number
series	String (2)	Series
applicationNumber	String (16)	Application Number
quantity	Number	invested Quantity

price	Decimal	Bid Price.
physicalDematFlag	String (1)	D = Demat P = Physical
clientCode	String (10)	Valid client code for Physical order else ignored
pan	String (10)	PAN No.- Permanent Account Number
depository	String (4)	Depository Name (NSDL, CDSL)
dpId	String (8)	DP ID Ignored in case of CDSL.
clientBenId	Number	Client ID in case of NSDL(8) Beneficiary ID in case of CDSL(16)
clientRefNumber	String (16)	Reference Number- Internal reference number
orderStatus	String (2)	ES = Entry success EF = Entry Fail MS = Modify Success MF = Modify Fail CS = Cancel Success CF = Cancel Fail
rejectionReason	String (100)	Rejection reason
enteredBy	String (25)	Enter By
entryTime	DATETIME	Entry time
verificationStatus	String (1)	P = Pending S = Verified F= Verification failed
verificationReason	String (100)	Verification Reason
clearingStatus	String (2)	FP = Fund Pending FS = Sent to NSCCL RJ = Rejected FR = Funds Received RS = RBI Submitted RA = RBI Allotted
clearingReason	String (100)	Clearing Reason
lastActionTime	DATETIME	Last action time
status	String	success/failed
reason	String (100)	Reason text

**Sample Response**

```

Success:
[
  {
    "symbol": "TEST",
    "orderNumber": 2019042500000003,
    "quantity": 100,
    "applicationNumber": "1200299929020",
    "price": 55,
    "physicalDematFlag": "D",
    "pan": "AFAKA2323L",
    "depository": "NSDL",
    "dpId": "33445566",
    "clientBenId": "12345678",
    "orderStatus": "ES",
    "clientRefNumber": "MYREF0001,

```

```

        "enteredBy ": "samir",
        "entryTime ": "25-04-2019 12:39:01",
        "verificationStatus ": "P",
        "verificationReason ": null,
        "clearingStatus ": "FP",
        "clearingReason ": "",
        "lastActionTime ": "25-04-2019 12:39:01",
        "status": "success"
    }
]

```

### GET /<version>/sgb/{time}

This API allows user to download SGB transactions.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgb/{time}">https://&lt;baseurl&gt;/&lt;version&gt;/sgb/{time}</a>
Request	Path Parameter
Response	JSON

#### Request Path Parameters

Field	Type	Description
time	DateTime	Cutoff date time. Transactions entered after this time will be returned in the response

#### Sample URL with Path Parameters

```
https://<<baseurl>>/<version>/sgb/01-12-2015%2009:30:00
```

#### Response JSON

Field	Type	Description
status	String (10)	success / failed
reason	String (100)	Reason in case of failure
transactions	List of Objects	List Transaction responses. See Response JSON Structure for API "POST /<version>/sgb/add"

#### Sample Response - Success

```

Success: {
  "transactions": [{
    "symbol": "TEST",
    "orderNumber": 2019042500000003,
    "quantity": 100,
    "applicationNumber": "1200299929020",
    "price": 55,
    "physicalDematFlag": "D",
    "pan": "AFAKA2323L",
    "depository": "NSDL",
    "dpId": "33445566",
    "clientBenId": "12345678",
    "orderStatus": "ES",
    "clientRefNumber": "MYREF0001",
    "rejectionReason ": null,
    "enteredBy ": "samir",
    "entryTime ": "25-04-2019 12:39:01",

```

```

        "verificationStatus ": "P",
        "verificationReason ": null,
        "clearingStatus ": "FP",
        "clearingReason ": "",
        "lastActionTime ": "25-04-2019 12:39:01",
        "status": "success"
    },
    {
        "symbol": "TEST",
        "orderNumber": 20190425000000004,
        "quantity": 100,
        "applicationNumber": "1200299929020",
        "price": 55,
        "physicalDematFlag": "D",
        "pan": "AFAKA2323L",
        "depository": "NSDL",
        "dpId": "33445566",
        "clientBenId": "12345678",
        "orderStatus": "ES",
        "clientRefNumber": "MYREF0001",
        "rejectionReason ": null,
        "enteredBy": "samir",
        "entryTime": "25-04-2019 12:39:01",
        "verificationStatus ": "P",
        "verificationReason ": null,
        "clearingStatus ": "FP",
        "clearingReason ": "",
        "lastActionTime ": "25-04-2019 12:39:01",
        "status": "success"
    }
]

```

**Sample Response – Failed**

```

{
    "status": "failed",
    "reason": "No Records Found"
}

```

**POST /<version>/sgb/fetch**

This API allows user to download SGB transactions for the given filter criteria.

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgb/fetch">https://&lt;baseurl&gt;/&lt;version&gt;/sgb/fetch</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
symbol	String (12)	Mandatory Symbol
orderNumber	String (16)	Mandatory Order No

**Sample Request**

```

{"symbol": "TEST", "orderNumber": "1200299929020"}

```

**Response JSON**

Field	Type	Description
status	String (10)	success / failed
reason	String (100)	Reason in case of failure
transactions	List of Objects	List Transaction response. See Response JSON Structure for API “POST /<version>/sgb/add”

**Sample Response - Success**

```

Success: {
  "transactions": [
    [{
      "symbol": "TEST",
      "orderNumber": 20190425000000003,
      "quantity": 100,
      "applicationNumber": "1200299929020",
      "price": 55,
      "physicalDematFlag": "D",
      "pan": "AFAKA2323L",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "orderStatus": "ES",
      "clientRefNumber": "MYREF0001",
      "rejectionReason": null,
      "enteredBy": "samir",
      "entryTime": "25-04-2019 12:39:01",
      "verificationStatus": "P",
      "verificationReason": null,
      "clearingStatus": "FP",
      "clearingReason": "",
      "lastActionTime": "25-04-2019 12:39:01",
      "status": "success"
    }
  ]
}

```

**Sample Response - Failed**

```

{
  "status": "failed",
  "reason": "No Records Found"
}

```

**GET /<version>/sgb/mismatches/{symbol}**

This API allows user to download mismatches.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgb/mismatches/{symbol}">https://&lt;baseurl&gt;/&lt;version&gt;/sgb/mismatches/{symbol}</a>
Request	Path Parameter
Response	JSON

***Request Path Parameters***

Field	Type	Description
symbol	String (12)	Issue Symbol

**Sample URL with Path Parameters**

<https://<<baseurl>>/eipo/<version>/sgb/mismatches/TESTSYM01>

### Response JSON

Field	Type	Description
status	String (10)	success / failed
reason	String (100)	reason
mismatches	List of Objects	List of Mismatch objects

### Mismatch Object JSON Structure

Field	Type	Description
symbol	String (12)	Symbol
applicationNumber	String (16)	
orderNumber	Number	In case of Modification and Deletion only
pan	String (10)	PAN No.- Permanent Account Number
depository	String (4)	NSDL CDSL
dpId	String (8)	DP ID - Ignored in case of CDSL.
clientBenId	String (16)	Client ID in case of NSDL / Beneficiary ID in case of CDSL
reason	String (250)	Reason text

### Sample Response

```
{
  "status": "success",
  "mismatches": [
    {
      "symbol": "TEST",
      "orderNumber": 20190425000000003,
      "applicationNumber": "1200299929020",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345678",
      "pan": "AFAKA2323L",
      "reason": "Account does not exist"
    },
    {
      "symbol": "TEST",
      "orderNumber": 20190425000000004,
      "applicationNumber": "1200299929025",
      "depository": "NSDL",
      "dpId": "33445566",
      "clientBenId": "12345679",
      "pan": "AFAKA2326L",
      "reason": "Account does not exist"
    }
  ]
}
```

GET /<version>/sgb/incomplete/{symbol}

This API allows user to download incomplete details.

Method	GET
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgb/incomplete/{symbol}">https://&lt;baseurl&gt;/&lt;version&gt;/sgb/incomplete/{symbol}</a>

Request	Path Parameter
Response	JSON

**Request Path Parameters**

Field	Type	Description
symbol	String (12)	Issue Symbol

**Sample URL with Path Parameters**

```
https://<<baseurl>>/eipo/<version>/sgb/incomplete/TESTSYM01
```

**Response JSON**

Field	Type	Description
status	String(10)	success / failed
reason	String(100)	reason
incomplete	List of Objects	List of Incomplete objects

**Incomplete Object JSON Structure**

Field	Type	Description
symbol	String (12)	Issue Symbol
orderNumber	Number	Order Number
incompleteCodesList	List of Number	List of Incomplete Error Codes Please refer List of Incomplete Codes section under Appendix A

**Sample Response**

```
{
  "status": "success",
  "incomplete": [
    {
      "symbol": "TEST",
      "orderNumber": 20220425000000005,
      "incompleteCodesList": [ 301, 308]
    },
    {
      "symbol": "TEST",
      "orderNumber": 20220425000000003,
      "incompleteCodesList": [ 301, 304, 306]
    }
  ]
}
```

**POST/<version>/sgb/incomplete/update**

This API allows user to modify incomplete investor details for an application

Method	POST
URL	<a href="https://&lt;baseurl&gt;/&lt;version&gt;/sgb/incomplete/update">https://&lt;baseurl&gt;/&lt;version&gt;/sgb/incomplete/update</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
-------	------	-------------

symbol	String (12)	Mandatory
orderNumber	Number	Mandatory
firstHolderDOB	DATE	First Holder Date of Birth
firstHolderState	String (50)	State
firstHolderBankIfsc	String (11)	Bank Account IFSC
firstHolderBankAccNo	String (16)	Bank Account Number
secondHolderPAN	String (10)	Second Holder PAN
secondHolderDOB	DATE	Second Holder Date of Birth
thirdHolderPAN	String (10)	Third Holder PAN NO
thirdHolderDOB	Number	Third Holder Date of Birth
guardianFirstName	String (250)	Guardian First Name
guardianRelation	String (10)	Guardian Relation
guardianDOB	DATE	Guardian Date of Birth
guardianPAN	String (10)	Guardian PAN

**Sample Request**

```
[
  {
    "symbol": "TEST",
    "orderNumber": 20190425000000005,
    "firstHolderDOB": "25-10-1986",
    "firstHolderBankAccNo": "911010056464605"
  }
]
```

**Response JSON**

Field	Type	Description
status	String	success/failed
reason	String (100)	Reason text

**Sample Response**

```
[
  {
    "status": "success"
  }
]
```

**Callback APIs****Summary**

API	Description
POST /<version>/appdpstatus	Call back API for updating application DP Verification status
POST /<version>/apppaystatus	Call back API for updating application UPI payment status
POST /<version>/notification	Call back API for pushing host notifications to member/bank system

**General Instructions**

Following headers need to be provided in all API calls



**Authorization:** Value should contain the base64 encoded text of SHA256 (SHA1 ({{password}})). For example, for user password “Pass@123” the header value should be  
 “MTdiOTNmNWFINTZhZjYxNGUwZDg5OGVkdNDcxYTZhMjlkZjNmYTJhYWQ1YjI3M2ZiZDIhOWVmYjhhMWMxYWVmMg==”

## API Reference

### POST /<version>/appdpstatus

This API exposed by the member/bank system will allow the host system to inform the member/bank system about the DP verification status updates.

Method	POST
URL	<a href="https://&lt;memberurl&gt;/&lt;version&gt;/appdpstatus">https://&lt;memberurl&gt;/&lt;version&gt;/appdpstatus</a>
Request	JSON
Response	JSON

#### Request JSON

Field	Type	Description
Symbol	String(12)	Symbol
applicationNumber	String(16)	Application No.(of the physical form)
dpVerStatusFlag	String(1)	DP Verification Status for PAN DP combination check P = Pending S = Success F = Failed
dpVerFailCode	String(10)	Latest DP Verification failure code given by depository
dpVerReason	String(250)	DP Verification failure reason.

#### Sample Request

```
{
  "symbol": "TEST",
  "applicationNumber": "1200299929020",
  "dpVerStatusFlag": "S",
  "dpVerReason": null,
  "dpVerFailCode": null
}
```

#### Response JSON

Field	Type	Description
Status	String(30)	success / failed
Reason	String(100)	Failure reason text. Only if “status” = “failed”

#### Sample Response – Success

```
{
  "status": "success"
}
```

#### Sample Response – Failed

```
{
  "status": "failed",
  "reason": "Application no does not exist"
}
```

**POST /<version>/apppaystatus**

This API exposed by the member/bank system will allow the host system to inform the member/bank system about the UPI Payment status updates.

<b>Method</b>	POST
<b>URL</b>	<a href="https://&lt;memberurl&gt;/&lt;version&gt;/apppaystatus">https://&lt;memberurl&gt;/&lt;version&gt;/apppaystatus</a>
<b>Request</b>	JSON
<b>Response</b>	JSON

***Request JSON***

Field	Type	Description
Symbol	String(12)	Symbol
applicationNumber	String(16)	Application No.(of the physical form)
upiPaymentStatusFlag	Number	Last UPI Payment status received from sponsor bank for the given application 0=Request Sent 1=Request Failed 10=Request Accepted By Sponsor Bank 11=Rejected due to invalid UPI 12=Rejected by Sponsor Bank 13=Block/Release Request Rejected Due To UPI 2.0 Not Being Supported By Investor Bank 21=Rejected by Investor Bank 22=Block/Release Request Rejected By Client Bank Due To Technical Reason 31=Rejected by Investor 100=Accepted by Investor 110=Block Released (Due to cancellation of order)
upiAmtBlocked	Decimal	Amount blocked in case of applications with upiFlag=Y
upiPayReason	String(100)	UPI Payment failure reason.

**Sample Request**

```
{
  "symbol": "TEST",
  "applicationNumber": "1200299929020",
  "upiPaymentStatusFlag": 100,
  "upiAmtBlocked": 125000.00,
  "upiPayReason": null
}
```

***Response JSON***

Field	Type	Description
Status	String(30)	success / failed
Reason	String(100)	Failure reason text. Only if "status" = "failed"

**Sample Response – Success**

```
{
  "status": "success"
}
```

**Sample Response – Failed**

```
{
  "status": "failed",
  "reason": "Application no does not exist"
}
```

**POST /<version>/notification**

This API exposed by the member/bank system will allow the host system to inform the member/bank system about any notification.

Method	POST
URL	<a href="https://&lt;memberurl&gt;/&lt;version&gt;/notification">https://&lt;memberurl&gt;/&lt;version&gt;/notification</a>
Request	JSON
Response	JSON

**Request JSON**

Field	Type	Description
type	Number	Notification type 1 = IPO detail modified 2 = Category bidding start 3 = Category bidding end
symbol	String(12)	Symbol
data	Structure	Notification type wise structure 1 = null 2 = Category Start Stop JSON 3 = Category Start Stop JSON
timestamp	Timestamp	Notification timestamp. Format : dd-MM-yyyy hh24:mm:ss

**Category Start Stop JSON**

Field	Type	Description
category	String(14)	Category Code

**Sample Request**

```
{
  "type": 1,
  "symbol": "TESTIPO",
  "timestamp": "15-05-2021 09:34:15"
}
```

```
{
  "type": 2,
  "symbol": "TESTIPO",
  "data": {
    "category": "RETAIL"
  },
  "timestamp": "15-05-2021 10:00:00"
}
```

**Response JSON**

Field	Type	Description
-------	------	-------------

---

status	String(30)	success / failed
reason	String(100)	Failure reason text. Only if “status” = “failed”

**Sample Response – Success**

```
{  
  "status": "success"  
}
```

**Sample Response – Failed**

```
{  
  "status": "failed",  
  "reason": "Application no does not exist"  
}
```

## Appendix A -Error Messages

Error Code	Message
1	Order status changed
2	Invalid Symbol
3	Invalid Member
4	Invalid Dealer
5	Issue is not open
6	Access denied for issue
7	Market is not open
8	Invalid Depository Name
9	Invalid DP id
10	Invalid Ben. Id
11	Missing field: <Field Name>
12	Invalid field: <Field Name>
13	Bidding not allowed for <issue type>
14	Invalid bid amount for category <Category Name>
15	Inactive category <Category Name>
16	Cutoff not allowed for category <Category Name>
17	Only <Max Count> transactions per application are allowed
18	Order value entered exceeds the user limit value
19	Bid amount exceeds the total value size of issue
20	Bid entry not started for category <Category Name>
21	Bid entry closed for category <Category Name>
22	Issue level setting not found/inactive for issue <Issue Symbol>
23	Non-ASBA bidding not allowed for <Issue Symbol or Member Type >
24	Physical allotment not allowed for the issue <Issue Symbol >
25	Modification of bid not allowed for issue <Issue Symbol >
26	Cancellation of bid not allowed for issue <Issue Symbol >
27	Modification of quantity not allowed for issue <Issue Symbol >
28	Modification of price not allowed for issue <Issue Symbol >
29	Modification of bid amount not allowed for issue <Issue Symbol >
30	Downward modification of quantity not allowed for issue <Issue Symbol >
31	Downward modification of price not allowed for issue <Issue Symbol >
32	Downward modification of bid amount not allowed for issue <Issue Symbol >
33	Upward modification of quantity not allowed for issue <Issue Symbol >
34	Upward modification of price not allowed for issue <Issue Symbol >
35	Upward modification of bid amount not allowed for issue <Issue Symbol >
36	Invalid length of field <Field Name>
37	Mismatch field <Field Name>
38	Invalid IFSC
39	Duplicate order number in request

40	Only 1 record allowed for series <Series Name>
41	Invalid application number
42	Category setting not found.
43	Application number used by other Bank/Member/Web Dealer
44	Access denied on the application
45	Invalid bid amount
46	Offline not allowed
47	Offline not allowed for category <Code>
48	Bid modification/Partial bid cancellation is not allowed for ASBA Pay applications
49	ASBA Pay orders are not allowed
50	Bid entry closed for asbapay orders
51	Partial cancellation of bid not allowed for issue <Issue Symbol>
200	Invalid Cut-Off Indicator
201	Invalid bid Price
202	Price is greater than max. price range
203	Price is less than min. price range
204	Bid Price should be in multiple of tick size
205	Bid quantity is less than min market lot
206	Bid quantity should be multiple of market lot
207	Invalid Activity type
208	Missing Bid reference number
209	Record not exist.
501	Bid level error
1501	Invalid message code
1502	Incorrect message size
1503	Invalid sequence of message
1504	System Error.OMS not connected
9999	System error

### SGB API - List of Incomplete Codes

Code	Reason	Field ID
301	First Holder DOB is missing	firstHolderDOB
302	First Holder State is missing	firstHolderState
303	First Holder Bank Ifsc is missing	firstHolderBankIfsc
304	First Holder Bank Ifsc should be 11 characters code	
305	First Holder Bank Ifsc: First 4 characters should be alphabet. Remaining 7 should be Numeric	
306	First Holder Bank Acc is missing	firstHolderBankAccNo
307	First Holder Bank Acc shall have a maximum length of 16 digits	
308	First Holder Bank Acc should be Numeric	
309	Second Holder PAN is missing	secondHolderPAN

310	Second Holder DOB is missing	secondHolderDOB
311	Third Holder PAN is missing	thirdHolderPAN
312	Third Holder DOB is missing	thirdHolderDOB
313	Guardian First Name is missing	guardianFirstName
314	Guardian Relation is missing	guardianRelation
315	Guardian DOB is missing	guardianDOB
316	Guardian PAN is missing	guardianPAN

## Appendix B – Base URL

The <baseurl> in the urls might be changed and shall be communicated separately in case of any changes.

Base URL	New
<b>Production</b>	eipo.nseindia.com/eipo
<b>UAT</b>	uat-ipo.nseindia.com/eipo