



COLLATERAL MANAGEMENT API Ver 2.0

Collateral Management API Structure for Members

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Introduction

SEBI vide circular dated 20th July 2021 proposed framework for segregation and monitoring of Collateral at client level.

The New API is a JSON based API Request facilitating Collateral Management for the Members.

The document contains.

1. Member registration for API access through the Web Application
2. Collateral API Authorization Structure Request and Response
3. Collateral Management API Structure Request and Response

The given API shall provide the following Facilities.

1. Authentication / Session Creation APIs
2. Collateral Management (Modify & Transfer)
3. Business data validation error codes

Technology

The APIs are HTTPS based APIs available over Internet and Leased Line and shall be IP restricted for access

The Request Response communication will be using JSON as Format (JavaScript Object Notation)

Authentication

The Member will have to register himself at the ICCL for API access.

The following Fields shall be used entered by the member using Appropriate user login.

API ID Creation Fields in Website

S.NO	Field Name	Details
1	IP Address	Static IP Address to be whitelisted by ICCL to access the API

On successful registration "Secret Key" will be shared to the member which shall be used in Authentication process as given below.

1. Collateral Authorization API Structure Details

Request Field Parameters: (Header Details)

S. No	Field Name	Type	Length	Description	Sample
1	UserID	Varchar	25		
2	Password	Varchar	25		
3	SecretKey	Varchar	25		

User ID, Password and Secret Key are Headers, and the request is sent with a blank body

Response Field Parameters: (Field Details)

S.No	Parameters	Type	Length	Description	Sample
1	Token	Varchar	64	Token for Usage in other APIs	

In response the member gets Token on failure shall get error code and error message

2. Collateral Management API Structure Details

Request Field Parameters: (Header Details)

S. No	Field Name	Type	Length	Description	Sample
1	MemberID	Varchar	4		
2	Token	Varchar	64		

Member ID and Token are in Headers

Request Field Parameters: (Field Details)

S. No	Field Name	Type	Length	Description
1	ver	Varchar	5	
2	uniqueRefId	Char	18	Unique Reference no YYYYMMDDMEMBERCODEXXXXXX Where X is incremental for each request
3	totalRecordsCnt	Numeric	11	Total of Records in the request
4	totalAmnt	Double	18,2	Total Amount across all records Maximum
5	data			List of records
6	data. recordNo	Numeric	11	Unique number to identify the record within the Request

7	data. curDate	Char	11	DD-MMM-YYYY. Date shall be the trade date for which uploading is done. It should match with the date mentioned in file nomenclature.
8	data. segment	Char	3	Values shall be CM, FO, CD, CO, SLB, OFS, TPR, ITP, DT and NCB
9	data. cmCode	Char	5	ICCL CM Code
10	data. tmCode	Char	5	TM Code
11	data. cpCode	Char	12	CP Code
12	data. cliCode	Char	10	UCC Code. Value should be Blank when CP code is populated, or Account type is 'P'
13	data. acctype	Char	1	P-prop, C-Client
14	data. amt	Double	15,2	Value in Rs. (Cash + FDR +BG)
15	data. trfToSeg	Char	3	Values shall be CM, FO, CD, CO, SLB, OFS, TPR, ITP, DT and NCB
16	data. filler 1			Reserved for future
17	data. filler 2			Reserved for future
18	data. filler 3			Reserved for future
19	data. filler 4			Reserved for future
20	data. filler 5			Reserved for future
21	data. action	char	1	Expected sample value: Allocated Collateral amount (A) Transfer (T)
22	data. intRefNo	Varchar	10	Custom Field for Member Non-Unique

Data contains a List of records from Item number 6 to 22 as comma separated string. Each record will be separated by character ^, without any padding.

Full Response Field Parameters: (Field Details)

S.No	Parameters	Type	Length	Description	Sample
1	uniqueRefId	Char	18	Unique Reference no Received in request	
2	totalRecordsCnt	Numeric	11	Total of Records received	
3	totalAmnt	Double	18,2	Total Amount across all records	
4	reqStatus	Varchar	15	Status of the request	Successful / Rejected / Partial
5	errCode	Varchar	8		
6	errMsg	Varchar	50		
7	data			List of records	
8	data. recordNo	Numeric	11	Unique number to identify the record within the Request	
9	data. curDate	Char	11	DD-MMM-YYYY. Date shall be the trade date for which uploading is done. It should match with the	

				date mentioned in file nomenclature.	
10	data.segment	Char	3	Values shall be CM, FO, CD, CO, SLB, OFS, TPR, ITP, DT and NCB	
11	data.cmCode	Char	5	ICCL CM Code	
12	data.tmCode	Char	5	TM Code	
13	data.cpCode	Char	12	CP Code	
14	data.cliCode	Char	10	UCC Code. Value should be Blank when CP code is populated, or Account type is 'P'	
15	data.acctype	Char	1	P-prop, C-Client	
16	data.amt	Double	15,2	Value in Rs. (Cash + FDR +BG)	
17	data.trfToSeg	Char	3	Values shall be CM, FO, CD, CO, SLB, OFS, TPR, ITP, DT and NCB	
18	data.filler 1			Reserved for future	
19	data.filler 2			Reserved for future	
20	data.filler 3			Reserved for future	
21	data.filler 4			Reserved for future	
22	data.filler 5			Reserved for future	
23	data.action	char	1	Expected sample value: Allocated Collateral amount (A) Transfer (T)	
24	data.intRefNo	Varchar	10	Custom Field for Member Non Unique	
25	data.recStatus	Varchar	10	Status of the record	Success / Rejected
26	data.errCode	varchar	8		
27	data.errMsg	Varchar	50		

Data contains a List of records from Item number 7 to 27 as comma separated string. Each record will be separated by character ^, without any padding.

Response (JSON Format) – Failure

```
{
  "errCode": "1002",
  "errMsg": "Invalid token"
}
```

3. Collateral Status API Structure Details

Request Field Parameters: (Field Details)

S. No	Field Name	Type	Length	Description	Sample
1	MemberID	Varchar	4		
2	Token	Varchar	64		
3	uniqueRefId	Char	18	Unique Reference no YYYYMMDDMEMBERCODEXXXXXX Where X is incremental for each request	

Full Response Field Parameters: (Field Details)

S.No	Parameters	Type	Length	Description	Sample
1	uniqueRefId	Char	18	Unique Reference no Received in request	
2	totalRecordsCnt	Numeric	11	Total of Records received	
3	totalAmnt	Double	18,2	Total Amount across all records	
4	reqStatus	Varchar	15	Status of the request	Successful / Rejected / Partial
5	errCode	Varchar	8		
6	errMsg	Varchar	50		
7	data			List of records	
8	data. recordNo	Numeric	11	Unique number to identify the record within the Request	
9	data. curDate	Char	11	DD-MMM-YYYY. Date shall be the trade date for which uploading is done. It should match with the date mentioned in file nomenclature.	
10	data. segment	Char	3	Values shall be CM, FO, CD, CO, SLB, OFS, TPR, ITP, DT and NCB	
11	data. cmCode	Char	5	ICCL CM Code	
12	data. tmCode	Char	5	TM Code	
13	data. cpCode	Char	12	CP Code	
14	data. cliCode	Char	10	UCC Code. Value should be Blank when CP code is populated, or Account type is 'P'	
15	data. acctype	Char	1	P-prop, C-Client	
16	data. amt	Double	15,2	Value in Rs. (Cash + FDR +BG)	
17	data. trfToSeg	Char	3	Values shall be CM, FO, CD, CO, SLB, OFS, TPR, ITP, DT and NCB	

18	data. filler 1			Reserved for future	
19	data. filler 2			Reserved for future	
20	data. filler 3			Reserved for future	
21	data. filler 4			Reserved for future	
22	data. filler 5			Reserved for future	
23	data. action	char	1	Expected sample value: Allocated Collateral amount (A) Transfer (T)	
24	data. intRefNo	Varchar	10	Custom Field for Member Non Unique	
25	data.recStatus	Varchar	10	Status of the record	Success / Rejected
26	data.errCode	varchar	8		
27	data.errMsg	Varchar	50		

Data contains a List of records from Item number 7 to 27 as comma separated string. Each record will be separated by character ^, without any padding.

Response (JSON Format) – Failure

```
{
  "errCode": "1002",
  "errMsg": "Invalid token"
}
```

1. Collateral Authentication API

UAT POST URL: <https://demortms.bseindia.com/NewEcolWebAPI/api/Authorization/Authorize>

LIVE POST URL: <https://classapi.bseindia.com/api/Authorization/Authorize>

Headers:

UserID :	
Password:	
SecretKey:	

Authorization Request

Request (JSON Format)

```
{  
}
```

Response (JSON Format) – Success

```
{  
  "Token": "Q01BeHh4eGZnZGdmZGdkZmdkZg=="  
}
```

Response (JSON Format) – Failure

```
{  
  "errCode": "1001",  
  "errMsg": "Invalid User Information"  
}
```

2. Collateral Management API Request

Collateral Management API Request

UAT POST URL: <https://demortrms.bseindia.com/NewEcolWebAPI/api/ClientBifurcation/ClientBifurcationImport>

LIVE POST URL: <https://classapi.bseindia.com/api/ClientBifurcation/ClientBifurcationImport>

Headers:

MemberID:	
Token:	

Request (JSON Format)

```
{
  "ver": "1.0",
  "uniqueRefId": "202111151000000001",
  "totalRecordsCnt": 2,
  "totalAmnt": 200000.00,
  "data": "1,17-NOV-2021,CM,1000,1001,,P,150000.00,FO,,,,,T,TEST10001^2,17-NOV-2021,CM,1000,1002,,P,50000.00,,,,,A,TEST10001"
}
```

Full Response (JSON Format)

```
{
  "uniqueRefId": "202111151000000001",
  "totalRecordsCnt": 2,
  "totalAmnt": 200000.00,
  "reqStatus": "PARTIAL",
  "errCode": "",
  "errMsg": "",
  "data": "1,17-NOV-2021,CM,1000,1001,,P,150000.00,FO,,,,,T,TEST10001,,,,^2,17-NOV-2021,CM,1000,1002,,P,50000.00,,,,,A,TEST10001,,,,"
}
```

Data Validations, Error Codes & Messages:

Error Code	Description
1	CM Code should be Numeric.
	CM Code does not match with Header member code.
	Invalid Clearing Member (CM) Code.
	CM Code does not exist.
	CM Code is not Active.
	CM Code should not be TM Member Type for Segment
	Invalid Account Type for CM Proprietary account.
	Invalid Account Type for CM own TM Proprietary account
2	Invalid Trader Member (TM) Code.
	TM Code should be Numeric.
	Invalid Account Type for TM Proprietary account.
3	Invalid Segment Indicator.
4	Invalid length of CP Code.
	Invalid CM/TM Code Mapping.
	Invalid Input fields for Client/Proprietary Type.
	Invalid Input fields for Client/Proprietary Type for SLB Segment.
	Invalid Account Type for CP account.
5	Invalid Action Value.
	Both columns Client Code and CPCCode should not contain data.
	Collateral Transfer is allowed only from ' + OC_START_TIME + ' till ' + OC_END_TIME + '.
	CM does not exists in To Segment.
	CM is not Active in To Segment.
	CM should not be TM MemberType for To Segment + ToSegment +
6	Invalid length of Amount.
	Amount Should not be blank.
	Negative values not accepted in Amount Field.
	Amount should be non-negative.
8	File Date & Current Date mismatch..
9	Invalid Length of Current Date.
	Invalid Current Date format.

	Incorrect Current Date format.
	Client Code Should not be Zero.
	Invalid length of Client Code.
	Client Code Should not contain special characters.
	Client Code should not contain space.
	Client Opted UPI Option
	Invalid Account Type for CM's aggregated CP Proprietary account.
	Invalid Account Type for Client account UCC.
	Invalid Account Type for Client account CMCL
12	Invalid length of Account Type.
	Invalid Account Type.
13	Invalid Transfer To Segment.
	Transfer To Segment should not be blank.
	Segment Indicator and Transfer To Segment should not be Same.
	Duplicate records are not allowed.
15	Transfer To Segment should be blank in case of Action is not T.

Note: In addition to above business error codes and messages users may experience HTTPS error codes and message that are applicable.

3. Collateral Status API Structure Details

Collateral Status API Request

UAT POST URL: <https://demortrms.bseindia.com/NewEcolWebApi/api/ClientBifurcationResponse/ClientBifurcationResponseStatus>

LIVE POST URL:

<https://classapi.bseindia.com/api/ClientBifurcationResponse/ClientBifurcationResponseStatus>

Request (JSON Format)

```
{
  "MemberID": "7575",
  "Token": " ",
  "uniqueRefId": "202404027575000018"
}
```

Full Response (JSON Format)

```
{
  "uniqueRefId": "202404027575000018",
  "totalRecordsCnt": "3",
  "totalAmnt": "15300",
  "reqStatus": "Rejected",
  "errCode": "",
  "errMsg": "Rejected",
  "data": "11-Apr-2022,CD,7575,0,,0,Q,1100.000000,,,,,A, Rejected,8 / File Date &
Current Date mismatch. ^11-Apr-2022,CD,7575,7575,,OWN,Q,1200.000000,,,,,A, Rejected,8 /
File Date & Current Date mismatch. ^11-Apr-2022,CD,7575,7575,,OWN,Q,13000.000000,,,,,A,
Rejected,8 / File Date & Current Date mismatch. ^11-Apr-
2022,CD,7575,7575,,CL1,Q,13000.000000,,,,,A, Approved,"
}
```