

Member FAQ's on "Extranet API"

Version 1.0

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Background

Exchange currently provides Extranet facility to members to access common and member specific data via Lease Lines (IP address for IP enabled users) and internet users (ftp://ftp.connect2nse.com) using member specific login or guest login credentials. Apart from the above, access is also available via Extranet folder in Member Portal

Important Note: Members may please note that access to Extranet for internet users via Internet FTP (ftp://ftp.connect2nse.com) and usage of Guest login credentials (for lease line and internet ftp) is planned to be discontinued. Please note that access of Extranet folders via Member Portal shall continue to be available.

Frequently Asked Questions (FAQ)

Non-Technical Query:

1. What is the process of Registering for Extranet API?

In order to register for Extranet API kindly refer to the Extranet API- Member Registration Help file for UAT as attached in the below circular link.:

<https://archives.nseindia.com/content/circulars/MSD54667.zip>



Extranet API -
Member Registration

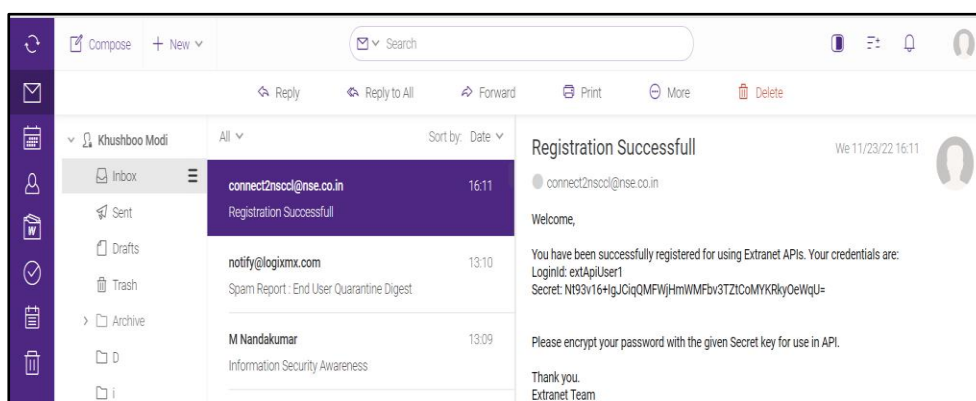
2. What is Secret Key?

The secret key is auto generated by the system post successful registration and the user will receive the secret key along with the user id and password on the email id used during the registration process of Extranet API.

3. Where to use the Secret Key received during registration process ?

Secret Key is to be used to encrypt the password. The encrypted password should be send as part of the request while calling Login API

Example of such email is as below



4. How can I get the password?

Member would need to set the password to use the Extranet-API while registering through member portal. Password need to be encrypted with the secret key received on the registered email-id post successful registration.

5. How to change the password which is set during registration?

Member may change the password using the Edit Profile menu in Member Portal. Member needs to enter the new Password and Confirm Password and clicking on Submit button on the Edit Profile page.

If password is reset then an email will go to the user intimating that the password has been reset.

Below is the screenshot of the Change Password screen and the email sent to the user post password being reset.

The image contains three screenshots. The top screenshot shows the 'Edit Profile' form with fields for Member Code (08081), Login ID (extApiUser1), Member's Email Id* (sringe@nseit.com), and Member's Mobile No.* (9894561230). Below these is a 'Key' field containing 'AS(DJ_98121@_ASDH#bds723rbndv7uib345n' and a green 'Submit' button. The middle screenshot shows the 'Change Password' form with 'Password*' and 'Confirm Password*' fields, each with a toggle icon, and a green 'Submit' button. The bottom screenshot is an email interface showing an 'Update Successful' message from connect2nsecol@nse.co.in. The email body states: 'Hello, Your password has been successfully updated for using Extranet APIs. Your credentials are: LoginId: extApiUser1, Secret: null. Please encrypt your password with the given Secret key for use in API. Thank you. Extranet Team'.

6. What if I get “User is Disabled” error while trying to Login into the Member Portal for Registering ?

The screenshot shows the 'Sign In' page of the NSE Member Portal. It has input fields for 'User Id', 'Member Code', and 'Password'. Below these is a Captcha field with the text 'Enter Captcha - Case Sensitive' and a visual captcha '2 C m A 5 X'. A red error message at the bottom states: 'Error - User is disabled, Kindly login with Admin Id and reset the password for the User.'

In case of Sub user the member has to contact the Admin user and provide Login ID for the Admin to enable the sub user.

The Admin user will then login to the Member Portal with the member code, user id and password and follow below process:

Go to the menu 'User Management' and click on sub-menu 'Modify User'. On clicking the sub-menu a screen would open displaying a list of all the users created by the Admin user as below:

The screenshot shows the 'Modify User' page in the NSE Member Portal. It features a table with columns: User Id, Member Code, User Type, User Status, Modify User, Change Password, Delete, and Assigned Roles. The table lists 18 users, all with 'Active' status.

User Id	Member Code	User Type	User Status	Modify User	Change Password	Delete	Assigned Roles
estApiUser1	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Rushi	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
PRADEEP	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
SubUser08081	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
TEST08081	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
27BKCINST	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Test123	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Rushi08081	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
apiUser08081	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Yash08081	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Testing	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Test12345	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
BALKRISHNA	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
Demo	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles
estApiUser2	08081	Sub User	Active	Edit	Change Password	Delete	Assign Roles

In case of a user being disabled the value in the column User Status would appear as Enable and admin user will have to click 'Enable' in order to enable the particular user.

In case of Admin user being disabled, members are requested to send a mail to msm@nse.co.in along with the details of admin user id which they need to reset.

7. What if the user does not receive the mail after successful registration?

Member/Vendor need to check if the email id provided by them in the registration screen is correct or not.

In case the email id provided during registration is correct and yet the member/vendor has not received the mail, then they need to contact the Help desk team at msm@nse.co.in.

8. What are the necessary details to be provided by members/vendors while reporting an UAT issue for quick resolution?

- a. Member /Vendor code & Name
- b. Login user credential
- c. The application member/vendor is using to execute the APIs
- d. The request and response body of the API executed
- e. Date and time of observation
- f. Details of error /observation
- g. Screenshots of error/observation
- h. Export of the request for the error/observation

Technical Query:

9. What is the password encryption algorithm used? /What is the Algorithm for password encryption? What is the mode for encryption? / What is the key size?

Algorithm: AES-256-ECB.

Key Size: 256Bit

Mode: ECB.

10. While placing an API request for Extranet what if the user is not getting any response?

Check if the input parameter provided in the request is as per the format/order provided in the API document for that specific request. Please refer the Extranet API or help document for more details

11. While placing the Login API request, user gets error code as 701 i.e. Invalid Member Code, Login ID or Password.

Check if you as a member are registered on the Member Portal.

Check if the parameters passed (Member code, Login id and password) are correct.

Ensure that the password being entered is not the secret key but the encrypted password using the secret key.

12. While placing the Login API request, user gets error code as 605.

Check if the user has entered the secret key in the password parameter instead of the password. The password is to be encrypted with AES256 encryption using the secret key received during API registration.

The process for password encryption is mentioned in the Extranet Registration Help document towards the end of the document i.e. point no 8 and 9.

e.g.

Request Object:

```
{"memberCode":"11086","password":"NTk1oUwNKdxGfNhAlKsbhjlqDXG/pFyPl2fcwr7uBgE=","loginId":"ltmapl"}
```

Response Object :

```
{  
  "token": null,  
  "memberCode": "11086",  
  "loginId": "ltmapi",  
  "code": [  
    "605"  
  ],  
  "status": "error",  
  "timestamp": "2022-12-07T11:33:48.602+00:00"  
}
```

13. What if I get error code 803 error while calling an API?

Response code "803" clearly specifies invalid token/ token expired. The user has to regenerate the token and try again as the token is valid for 1 hour only.

User can always generate a new token any number of times he wants by executing the Login API.

Error code 803 (Invalid token) also occurs if the user regenerates a new token but uses previous/old token instead.

If user is using Postman client, please refer the below steps on using the token.

Authorization Tab ->Select Bearer Token -> Paste the token in token tab.

14. How to encrypt the raw password with the key received/generated after successful registration?

To encrypt the password use the code mentioned in the help document. Code is available in JAVA and .net.

15. What if I am getting error code 702 in response?

Error code 702 clearly specifies that USER IS DISABLED. It usually occurs after 5 unsuccessful login attempts. Members need to send the request to enable the user to the mail id: msm@nse.co.in with the details provided in Question no 8.

16. What is the expiry time of the login token?

Token expiration is currently set to 1 hour.

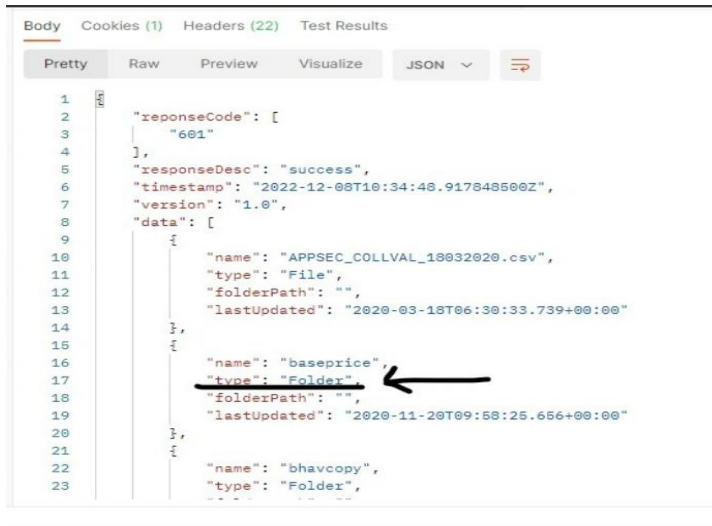
17. What if my data in response is empty even after successful execution of the API and getting response code 601 i.e. successful response?

If the response code is 601 and the still the response data is empty usually means that there is basically no file present at that folder path and the folder is empty.

18. Member faces error code 712 while executing Login API.

Response code 712 clearly specifies 'Folder not found'. User needs to check the base folder i.e. instead of "/common" provide "/" only and look for the folders available to navigate in the response received.

Example:



```
1  {
2    "responseCode": [
3      "601"
4    ],
5    "responseDesc": "success",
6    "timestamp": "2022-12-08T10:34:48.917848500Z",
7    "version": "1.0",
8    "data": [
9      {
10       "name": "APPSEC_COLLVAL_18032020.csv",
11       "type": "File",
12       "folderPath": "",
13       "lastUpdated": "2020-03-18T06:30:33.739+00:00"
14     },
15     {
16       "name": "baseprice",
17       "type": "Folder",
18       "folderPath": "",
19       "lastUpdated": "2020-11-20T09:58:25.656+00:00"
20     },
21     {
22       "name": "bhavcopy",
23       "type": "Folder",
24       "folderPath": "",
25       "lastUpdated": "2020-11-20T09:58:25.656+00:00"
26     }
27   ]
28 }
```

19. What if I am getting response code 920?

Response code 920 specifies 'Invalid version number of the API'. Example using 1 instead of 1.0 etc Kindly check the version number in the URL. Refer the help document on how to provide the version.

20. Receiving response code 703 in log out API.

Response code 703 specifies 'Invalid member Code' or login ID. It corresponds only to log out API. Check if the member code and log in ID provided is correct and you are passing them correctly in the body.

21. What if I am receiving response code 704.

Response code 704 specifies 'Member is not eligible for a particular segment'. It usually means that the Member's Folder is not present or a particular segment folder is not available for the Member. Please reach out to the help desk team to if your folder is unavailable and make sure you are accessing the correct segment.

22. Receiving Response code 706.

Response code 706 usually means that the user is providing Invalid parameters/Body consisting Segment, Member code, date, filename and folder Path etc. It's basically Invalid body been provided for the execution of the API. Refer the help document and API specification document on how to provide correct body to execute the API.

23. Are the parameters to be provided in the API case sensitive?

Yes the parameters to be provided in the API are case sensitive. Providing non case sensitive parameter name would usually return response codes 710, 711, 712, 714 and 714. Member should ensure the Parameters provided are correct. Kindly refer the help document and API specification document on how to provide correct parameter

24. Receiving response code 921.

If the user receives response code 921, which means 'Invalid syntax' which means member has provided a syntactical error while executing the API as it corresponds to Invalid syntax. Syntactical error usually occurs in the API URL and its Parameters.

25. Receiving Response code 923.

It is a child code to 921. which means Invalid URL. Please make sure there is now syntactical error and the URL is correct.

26. Receiving Response code 925.

Response code 925 generally states that the Authentication server is not working properly or is down. The user will not be able to log in/ log out during this period. User can try execution after some time or reach out to the help desk team.

27. How to provide the token in the API?

The token needs to be provided as a header in the API named "Authorization: Bearer +Token".

28. How are the API endpoints to be used?

The API end points are to be executed in applications like Postman etc. and are not web addresses.

The members are not to use these end points as web address and execute them on websites like Google Chrome, Firefox, or Safari. These are API end points and not any website.

29. While executing download API member is getting status code as 401.

Status code 401 means Unauthorized Token. Member has to provide "/" (front slash) instead of "\" (back slash) in the folderPath parameter.

Kindly find below the password encryption code in Python.

31. While executing the Download API member is getting error code as 715.

Member has to navigate through the folders available by providing only "/" in the listing APIs and provide that only in the download API. i.e. the folders/files which are available

The error code 710 means Date Invalid, thus member has to pass the date parameter in the format DD-MM-YYYY.

For any query kindly call 1800 2660 050 or email us: msm@nse.co.in