

Protocol for WEB API

NSE Mutual Funds System

Version 1.0



National Stock Exchange of India
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Common Authentication For All APIs

Required Parameters Values for Member		
1	Login User ID	Same used for Member Desk Login
2	API Secret (PWD)	API Credentials provided by NSE
3	API Member License KEY	API Credentials provided by NSE
4	Member Code	Member code registered with NSE

Common Authentication & Authorization Logic

1. Every Member users who have access to Member Desk can access API
2. User ID would be same as used for Member Desk.
3. IP Address must be validated against User (Need to whitelist your IP with NSE)
4. Role based access invalidated for each API. (i.e. If user can not access Client Registration Entry module then Client Registration API is not accessible to respective user.)
5. Authentication parameters must be passed as request header
6. If the login is not successful then error code "403 FORBIDDEN" will be sent with error Message "Invalid authorization header or IP Address not mapped with user."
7. If the login is successful then Proceed for actual API Business Logic processing

Request Headers			
Sr No.	Header Name	Type	Value/ Remark
1	Content-Type	varchar	application/json
2	memberId	INT	1
3	Authorization	BASIC	base64(Login User ID: Encrypted Password)

Generate Encrypted Password		
Generate Encrypted string of the provided : (API Secret (PWD))<RANDOM Number>		
Encryption Algorithm	AES 128 bit	
Key	API Member License KEY	

For eg.

=====

salt = random alphanumeric value (eg. 9A1c74744b944d9bd34e7de3a964fb19)

iv = random alphanumeric value (eg. 90E9c0485bc76e864e5aae05a34d356f)

plain_text = API Secret (PWD)|<RANDOM Number>

eg. 90E9c0485ty54g864e5aae05a34d356f|34533412321

aes_encrypted_val = AES128(salt, iv, <API Member License KEY>, plain_text)

Encrypted Password = base64(iv::salt::aes_encrypted_val)

Sample Error Response JSON

```
{
  "status": "403 FORBIDDEN",
  "error_type": "unauthorized",
  "message": "Invalid authorization header or IP Address not mapped with user."
}
```

Order Entry (PUR/RED) Service APIURL : <https://nsemf2uat.nse.co.in/nsemfdesk/api/v2/transaction/NORMAL>

Type : Post

Request Headers : As per **Common Authentication For All APIs**

Request & Response Parameters					
FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION	Remark
transaction_d etails	Mandatory	List of Object		Refer Following table	1) Mandatory 2) Maximum 50 Orders allowed in single request

FIELD NAME	MANDATOR Y/ NON MANDATOR Y	FIELD TYPE	SIZE	DESCRIPTION
order_ref_number	Optional	VARCHAR	19	Unique reference number from the member. Number can be incremental for each order(000001, 000002,...). The number can be reset the next day. Optional
scheme_code	Mandatory	VARCHAR	20	Scheme code should be exist and NOT disable in system Amc of scheme should be active Amc of scheme should be mapped with given member
trxn_type	Mandatory	VARCHAR	1	Values : P = Purchase, R = Redemption value is not other than P/R Purchase OR redemption is allowed on given amc
buy_sell_type	Mandatory	VARCHAR	10	Values : FRESH/ADDITIONAL value is not other than FRESH/ADDITIONAL
client_code	Mandatory	VARCHAR	20	Client should present in system for given member Client is active in system Validation of client tax status like NRI of some countries not allowed

				for given scheme.
demat_physical	Mandatory	VARCHAR	1	Values : C = CDSL Demat, N = NSDL Demat, P = Physical For limited membership if Client Tax Status is Minor or NRI then its AOF status must be verified. For physical each of holders PAN must have AOF image is either uploaded or Accepted by RTA For Physical if FATCA check is required by RTA for given scheme then Check FATCA of each holders should be either uploaded or Should not be Rejected.
order_amount	Conditional	DECIMAL	13,2	Mandatory in case of purchase If Amount and Qty both present. then Its not allowed Check Order amount is NOT more than max value for scheme Check Order amount is NOT less than min value for scheme Check Order amount in proper multiplier (divisible by multiplier) for Redemption Demat transaction if amount is present then Its Not allowed
folio_no	Conditional	VARCHAR	15	Mandatory in case of PHYSICAL and ADDITIONAL
remarks	Optional	VARCHAR	200	
kyc_flag	Mandatory	VARCHAR	1	Values : Y, N
sub_broker_code	Optional	VARCHAR	15	
euin_number	Conditional	VARCHAR	20	E+6 Numeric Mandatory if EUIN Declaration is Y EUIN should start with E.
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N
min_redemption_flag	Mandatory	VARCHAR	1	Values : Y, N Mandatory field. In case of purchases it should be a N. in case of any redemption above 50 units it should be N, in case of units below 50 units it should be Y. Will be N in case of Physical.
dpc_flag	Mandatory	VARCHAR	1	Values : Y, N. It should be Y.
all_units	Mandatory	VARCHAR	1	Values : Y, N Mandatory field in case of physical

				redemption transactions. If the flag is "Y", then the amount and units fields will be blank. In case of demat, keep it as blank.
redemption_units	Conditional	DECIMAL	15,3	Mandatory for demat redemption order.
sub_broker_arn	Optional	VARCHAR	20	Should start with ARN-
bank_ref_no	Optional	VARCHAR	25	
account_no	Conditional	VARCHAR	20	Mandatory for redemption. Should be available in client's bank details registered with NSE.
mobile_no	Optional	NUMBER	10	
email	Optional	VARCHAR	50	
mandate_id	Optional	NUMBER	13	
filler1	Optional	VARCHAR		
txn_order_id	Optional	NUMBER	12	Should be blank. Unique Exchange Trxn No. in API response
txn_status	Optional	VARCHAR	15	Should be blank. Values : TRXN FAILED /TRXN SUCCESS in API response.
txn_remark	Optional	VARCHAR	255	Should be blank. Trxn remarks in API response.

Sample Request Json :

```
{
  "transaction_details":
  [
    {
      "order_ref_number": "",
      "scheme_code": "AXBDGP-GR",
      "txn_type": "P",
      "buy_sell_type": "FRESH",
      "client_code": "H30350",
      "demat_physical": "C",
      "order_amount": "2000",
      "folio_no": "",
      "remarks": "Order Remark",
      "kyc_flag": "Y",
      "sub_broker_code": "",
      "euin_number": "E123456",
      "euin_declaration": "Y",
      "min_redemption_flag": "N",
      "dpc_flag": "Y",
      "all_units": "N",
      "redemption_units": "",
      "sub_broker_arn": "",
      "bank_ref_no": "5434232",
      "account_no": "343434334",
      "mobile_no": "",
      "email": "",
      "mandate_id": "",
      "filler1": ""
    }
  ]
}
```


Sample Response Json :

```
{
  "transaction_details":
  [
    {
      "order_ref_number": "",
      "scheme_code": "AXBDGP-GR",
      "txn_type": "P",
      "buy_sell_type": "FRESH",
      "client_code": "H30350",
      "demat_physical": "C",
      "order_amount": "2000",
      "folio_no": "",
      "remarks": "ADD THROUGH API",
      "kyc_flag": "Y",
      "sub_broker_code": "",
      "euin_number": "E123456",
      "euin_declaration": "Y",
      "min_redemption_flag": "N",
      "dpc_flag": "Y",
      "all_units": "N",
      "redemption_units": "",
      "sub_broker_arn": "",
      "bank_ref_no": "5434232",
      "account_no": "343434334",
      "mobile_no": "",
      "email": "",
      "mandate_id": "",
      "filler1": "",
      "txn_order_id": "432160000001",
      "txn_status": "TRXN SUCCESS",
      "txn_remark": ""
    }
  ]
}
```

Switch Order Entry Service APIURL : <https://nsemf2uat.nse.co.in/nsemfdesk/api/v2/transaction/SWITCH>

Type : Post

Request Headers : As per **Common Authentication For All APIs**

Request & Response Parameters					
FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION	Remark
transaction_d etails	Mandatory	List of Object		Refer Following table	1) Mandatory 2) Maximum 50 Orders allowed in single request

FIELD NAME	MANDATOR Y/ NON MANDATOR Y	FIELD TYPE	SIZE	DESCRIPTION
order_ref_number	Optional	VARCHAR	19	Unique reference number from the member. Number can be incremental for each order(000001, 000002,...). The number can be reset the next day. Optional
from_scheme_co de	Mandatory	VARCHAR	20	Switch out scheme code
to_scheme_code	Mandatory	VARCHAR	20	Switch in scheme code
buy_sell_type	Mandatory	VARCHAR	10	Values : FRESH/ADDITIONAL Value should not be other than FRESH/ADDITIONAL
client_code	Mandatory	VARCHAR	20	Client should present in system for given member Client should active in system
demat_physical	Mandatory	VARCHAR	1	Values : C = CDSL Demat, N = NSDL Demat, P = Physical For limited membership if Client Tax Status is Minor or NRI then its AOF status must be verified. For physical each of holders PAN

				must have AOF image is either uploaded or Accepted by RTA For Physical if FATCA check is required by RTA for given scheme then Check FATCA of each holders should be either uploaded or Should not be Rejected.
amount	Conditional	DECIMAL	15,2	If Physical Then Either Units Or Amount is Mandatory
units	Conditional	VARCHAR	15,3	IF Demat Then Units is Mandatory and Amount should be blank
all_units	Mandatory	VARCHAR	1	Y or N 1. ALL UNITS SHOULD BE "N" WHEN TRANSACTION MODE IS DEMAT 2. 'AMOUNT AND UNITS SHOULD BE BLANK WHEN ALL UNITS IS "Y".' 3. EITHER UNIT OR AMOUNT IS REQUIRED WHEN ALL UNITS IS "N"
folio_no	Conditional	VARCHAR	15	Mandatory in case of PHYSICAL and ADDITIONAL
remarks	Optional	VARCHAR	200	
kyc_flag	Mandatory	VARCHAR	1	Values : Y, N
sub_broker_code	Optional	VARCHAR	15	
euin_number	Conditional	VARCHAR	7	E+6 Numeric Mandatory if EUIN Declaration is Y EUIN should start with E.
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
sub_broker_arn	Optional	VARCHAR	20	Should start with ARN-
mobile_no	Optional	VARCHAR	10	
email	Optional	VARCHAR	50	
filler1	Optional	VARCHAR		
filler2	Optional	NUMBER		
filler3	Optional	VARCHAR		
txn_so_order_id	Optional	NUMBER	12	Should be blank. Unique Exchange Switch Out Trxn No. in API response
txn_si_order_id	Optional	NUMBER	12	Should be blank. Unique Exchange Switch In Trxn No. in API response
txn_status	Optional	VARCHAR	15	Should be blank. Values : TRXN FAILED

				/TRXN SUCCESS in API response.
txn_remark	Optional	VARCHAR	255	Should be blank. Trxn remarks in API response.

Sample Request Json :

```
{
  "transaction_details": [
    {
      "order_ref_number": "",
      "from_scheme_code": "RLBPAM-B",
      "to_scheme_code": "RMFCEDP-DP",
      "buy_sell_type": "FRESH",
      "client_code": "h30350",
      "demat_physical": "C",
      "amount": "",
      "units": "10.000",
      "all_units": "N",
      "folio_no": "",
      "remarks": "remarks",
      "kyc_flag": "Y",
      "sub_broker_code": "UCC4790",
      "euin_number": "E123456",
      "euin_declaration": "Y",
      "sub_broker_arn": "",
      "mobile_no": "",
      "email": "",
      "filler1": "",
      "filler2": "",
      "filler3": ""
    }
  ]
}
```

Sample Response Json :

```
{
  "transaction_details": [
    {
      "order_ref_number": "",
      "from_scheme_code": "RLBPAM-B",
      "to_scheme_code": "RMFCEDP-DP",
      "buy_sell_type": "FRESH",
      "client_code": "h30350",
      "demat_physical": "C",
      "amount": "",
      "units": "10.000",
      "all_units": "N",
      "folio_no": "",
      "remarks": "remarks",
      "kyc_flag": "Y",
      "sub_broker_code": "UCC4790",
      "euin_number": "E123456",
      "euin_declaration": "Y",
      "sub_broker_arn": "",
      "mobile_no": "",
      "email": "",
      "filler1": "",
      "filler2": "",
      "filler3": ""
      "txn_so_order_id": "4321600000002",
      "txn_si_order_id": "4321600000003",
      "txn_status": "TRXN SUCCESS",
      "txn_remark": ""
    }
  ]
}
```

XSIP Registration Service APIURL : <https://nsemf2uat.nse.co.in/nsemfdesk/api/v2/registration/product/XSIP>

Type : Post

Request Headers : As per **Common Authentication For All APIs**

Request & Response Parameters					
FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION	Remark
reg_data	Mandatory	List of Object		Refer Following table	1) Mandatory 2) Maximum 50 Orders allowed in single request

FIELD NAME	MANDATO RY/ NON MANDATO RY	FIELD TYPE	SIZE	DESCRIPTION
amc_code	Mandatory	VARCHAR	50	AMC code of given scheme
sch_code	Mandatory	VARCHAR	20	Scheme code for XSIP
client_code	Mandatory	VARCHAR	20	Client should present in system for given member Client should active in system
bank_ref_no	Optional	VARCHAR	25	
trans_mode	Mandatory	VARCHAR	20	1. Must be D or P2. Must match with sip transaction mode3. client depository is PHYSICAL then DEMAT not allowed
dp_txn_mode	Mandatory	VARCHAR	1	Values : C = CDSL Demat, N = NSDL Demat, P = Physical For limited membership if Client Tax Status is Minor or NRI then its AOF status must be verified. For physical each holders PAN must have AOF image is either uploaded or Accepted by RTA For Physical if FATCA check is required by RTA for given scheme then Check FATCA of each holders should be either uploaded or Should

				not be Rejected.
start_date	Mandatory	VARCHAR	10	Format DD/MM/YYYY. Past date is not allowed. Day of date must be within allowed dates for SIP.
frequency_type	Mandatory	VARCHAR	20	Values : WEEKLY/ MONTHLY/ QUARTERLY/ SEMI-ANNUALLY /ANNUALLY/ DAILY Must be allowed for given scheme code.
frequency_allowed	Mandatory	VARCHAR	1	Value Must be 1. 1=Rolling.
installment_amount	Mandatory	DECIMAL	12,2	Amount for SIP Must be within minimum and maximum amount allowed for given scheme. Must be a multiplier of given scheme.
status	Mandatory	NUMBER	1	Values : 1=Active, 0=Inactive Must be 1
member_code	Mandatory	VARCHAR	20	
folio_no	Optional	VARCHAR	15	existing folio no if any
sip_remarks	Optional	VARCHAR	100	
installment_no	Conditional	NUMBER		Mandatory in case of frequency other than DAILY. Must be blank in case of DAILY. Must be between MIN and MAX instalment no allowed for given scheme.
convenience_fee	Optional	VARCHAR	10,2	If member have not opted for convenience Fee then convenience fee must be zero.
xsip_mandate_id	Optional	NUMBER		Clients mandate number. Must be approved mandate.
sub_broker_code	Optional	VARCHAR	15	
euin_number	Conditional	VARCHAR	7	E+6 Numeric Mandatory if EUIN Declaration is Y EUIN should start with E.
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
dpc_flag	Mandatory	VARCHAR	1	Values : Y, N. It should be Y.
first_order_today	Mandatory	VARCHAR	1	Values : Y, N. If Y then first order will be generated on Current date.
isip_mandate	Optional	VARCHAR	15	Must be blank.
sub_broker_arn				Should start with ARN-

	Mandatory	VARCHAR	20	
end_date	Optional	VARCHAR	10	Format : DD/MM/YYYY Mandatory in case of DAILY frequency. Must be blank in case of frequency other than DAILY.
primary_holder_mobile	Optional	VARCHAR	10	
primary_holder_email	Optional	VARCHAR	50	
filler_1	Optional	VARCHAR		Keep it blank
filler_2	Optional	VARCHAR		Keep it blank
filler_3	Optional	VARCHAR		Keep it blank
filler_4	Optional	VARCHAR		Keep it blank
filler_5	Optional	VARCHAR		Keep it blank
reg_id	Optional	NUMBER	15	Should be blank. Unique Exchange XSIP Registration No. in API response
reg_status	Optional	VARCHAR	15	Should be blank. Values : REG_SUCCESS,REG_FAILED. in API response
reg_remark	Optional	VARCHAR	200	Should be blank.

Sample Request Json :

```
{
  "reg_data": [
    {
      "amc_code": "AXISMUTUALFUND_MF",
      "sch_code": "AXIOGP-GR",
      "client_code": "H30350",
      "bank_ref_no": "671297212",
      "trans_mode": "D",
      "dp_txn_mode": "C",
      "start_date": "10/08/2023",
      "frequency_type": "MONTHLY",
      "frequency_allowed": "1",
      "installment_amount": "3000",
      "status": "1",
      "member_code": "4079",
      "folio_no": "",
      "sip_remarks": "",
      "installment_no": "12",
      "convenience_fee": "10",
      "xsip_mandate_id": "12",
      "sub_broker_code": "",
      "euin_number": "E399871",
      "euin_declaration": "Y",
      "dpc_flag": "Y",
      "first_order_today": "N",
      "isip_mandate": "",
      "sub_broker_arn": "",
      "end_date": "",
      "primary_holder_mobile": "9574898779",
      "primary_holder_email": "user@gmail.com",
      "filler_1": "",
      "filler_2": "",
      "filler_3": "",
      "filler_4": "",
      "filler_5": ""
    }
  ]
}
```

Sample Response Json :

```
{
  "reg_data":
  [
    {
      "amc_code": "AXISMUTUALFUND_MF",
      "sch_code": "AXIOGP-GR",
      "client_code": "H30350",
      "bank_ref_no": "671297212",
      "trans_mode": "D",
      "dp_txn_mode": "C",
      "start_date": "10/08/2023",
      "frequency_type": "MONTHLY",
      "frequency_allowed": "1",
      "installment_amount": "3000",
      "status": "1",
      "member_code": "4079",
      "folio_no": " ",
      "sip_remarks": " ",
      "installment_no": "12",
      "convenience_fee": "10",
      "xsip_mandate_id": "12",
      "sub_broker_code": " ",
      "euin_number": "E399871",
      "euin_declaration": "Y",
      "dpc_flag": "Y",
      "first_order_today": "N",
      "isip_mandate": " ",
      "sub_broker_arn": " ",
      "end_date": " ",
      "primary_holder_mobile": "9574898779",
      "primary_holder_email": "USER@GMAIL.COM",
      "filler_1": " ",
      "filler_2": " ",
      "filler_3": " ",
      "filler_4": " ",
      "filler_5": " ",
      "reg_id": "202308081000001",
      "reg_status": "REG_SUCCESS",
      "reg_remark": " "
    }
  ]
}
```

SIP Registration Service APIURL : <https://nsemf2uat.nse.co.in/nsemfdesk/api/v2/registration/product/SIP>

Type : Post

Request Headers : As per **Common Authentication For All APIs**

Request & Response Parameters					
FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION	Remark
reg_data	Mandatory	List of Object		Refer Following table	1) Mandatory 2) Maximum 50 Orders allowed in single request

FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION
amc_code	Mandatory	VARCHAR	50	AMC code of given scheme
sch_code	Mandatory	VARCHAR	20	Scheme code for XSIP
client_code	Mandatory	VARCHAR	20	Client should present in system for given member Client should active in system
internal_ref_no	Optional	VARCHAR	20	
trans_mode	Mandatory	VARCHAR	20	1. Must be D or P2. Must match with sip transaction mode3. client depository is PHYSICAL then DEMAT not allowed
dp_txn_mode	Mandatory	VARCHAR	1	Values : C = CDSL Demat, N = NSDL Demat, P = Physical For limited membership if Client Tax Status is Minor or NRI then its AOF status must be verified. For physical each holders PAN must have AOF image is either uploaded or Accepted by RTA For Physical if FATCA check is required by RTA for given scheme then Check FATCA of each holders should be either uploaded or Should not be Rejected.

start_date	Mandatory	VARCHAR	10	Format DD/MM/YYYY. Past date is not allowed. Day of date must be within allowed dates for SIP.
frequency_type	Mandatory	VARCHAR	20	Values : WEEKLY/ MONTHLY/ QUARTERLY/ SEMI-ANNUALLY /ANNUALLY/ DAILY Must be allowed for given scheme code.
frequency_allowed	Mandatory	VARCHAR	1	Value Must be 1. 1=Rolling.
installment_amount	Mandatory	DECIMAL	12,2	Amount for SIP Must be within minimum and maximum amount allowed for given scheme. Must be a multiplier of given scheme.
status	Mandatory	NUMBER	1	Values : 1=Active, 0=Inactive Must be 1
member_code	Mandatory	VARCHAR	20	
folio_no	Optional	VARCHAR	15	existing folio no if any
sip_remarks	Optional	VARCHAR	200	
installment_no	Conditional	NUMBER		Mandatory in case of frequency other than DAILY. Must be blank in case of DAILY. Must be between MIN and MAX instalment no allowed for given scheme.
sip_mandate_id	Optional	NUMBER		Clients mandate number. Must be approved mandate.
sub_broker_code	Optional	VARCHAR	15	
euin_number	Conditional	VARCHAR	7	E+6 Numeric Mandatory if EUIN Declaration is Y EUIN should start with E.
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
dpc_flag	Mandatory	VARCHAR	1	Values : Y, N. It should be Y.
first_order_today	Mandatory	VARCHAR	1	Values : Y, N. If Y then first order will be generated on Current date.
sub_broker_arn	Mandatory	VARCHAR	20	Should start with ARN-
end_date	Optional	VARCHAR	10	Format : DD/MM/YYYY Mandatory in case of DAILY frequency. Must be blank in case of frequency

				other than DAILY.
primary_holder_mobile	Optional	VARCHAR	10	
primary_holder_email	Optional	VARCHAR	50	
filler_1	Optional	VARCHAR		Keep it blank
filler_2	Optional	VARCHAR		Keep it blank
filler_3	Optional	VARCHAR		Keep it blank
filler_4	Optional	VARCHAR		Keep it blank
filler_5	Optional	VARCHAR		Keep it blank
reg_id	Optional	NUMBER	15	Should be blank. Unique Exchange SIP Registration No. in API response
reg_status	Optional	VARCHAR	15	Should be blank. Values : REG_SUCCESS,REG_FAILED. in API response
reg_remark	Optional	VARCHAR	200	Should be blank.

Sample Request Json :

```
{
  "reg_data": [
    {
      "amc_code": "AXISMUTUALFUND_MF",
      "sch_code": "AXIOGP-GR",
      "client_code": "H30350",
      "internal_ref_no": "671297212",
      "trans_mode": "D",
      "dp_txn_mode": "C",
      "start_date": "10/08/2023",
      "frequency_type": "MONTHLY",
      "frequency_allowed": "1",
      "installment_amount": "3000",
      "status": "1",
      "member_code": "4079",
      "folio_no": "",
      "sip_remarks": "",
      "installment_no": "12",
      "sip_mandate_id": "12",
      "sub_broker_code": "",
      "euin_number": "E399871",
      "euin_declaration": "Y",
      "dpc_flag": "Y",
      "first_order_today": "N",
      "sub_broker_arn": "",
      "end_date": "",
      "primary_holder_mobile": "9574898779",
      "primary_holder_email": "user@gmail.com",
      "filler_1": "",
      "filler_2": "",
      "filler_3": "",
      "filler_4": "",
      "filler_5": ""
    }
  ]
}
```

Sample Response Json :

```
{
  "reg_data":
  [
    {
      "amc_code": "AXISMUTUALFUND_MF",
      "sch_code": "AXIOGP-GR",
      "client_code": "H30350",
      "internal_ref_no": "671297212",
      "trans_mode": "D",
      "dp_txn_mode": "C",
      "start_date": "10/08/2023",
      "frequency_type": "MONTHLY",
      "frequency_allowed": "1",
      "installment_amount": "3000",
      "status": "1",
      "member_code": "4079",
      "folio_no": "",
      "sip_remarks": "",
      "installment_no": "12",
      "sip_mandate_id": "12",
      "sub_broker_code": "",
      "euin_number": "E399871",
      "euin_declaration": "Y",
      "dpc_flag": "Y",
      "first_order_today": "N",
      "sub_broker_arn": "",
      "end_date": "",
      "primary_holder_mobile": "9574898779",
      "primary_holder_email": "user@gmail.com",
      "filler_1": "",
      "filler_2": "",
      "filler_3": "",
      "filler_4": "",
      "filler_5": "",
      "reg_id": "202308081000002",
      "reg_status": "REG_SUCCESS",
      "reg_remark": " "
    }
  ]
}
```

STP Registration Service APIURL : <https://nsemf2uat.nse.co.in/nsemfdesk/api/v2/registration/product/STP>

Type : Post

Request Headers : As per **Common Authentication For All APIs**

Request & Response Parameters					
FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION	Remark
reg_data	Mandatory	List of Object		Refer Following table	1) Mandatory 2) Maximum 50 Orders allowed in single request

FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION
client_code	Mandatory	VARCHAR	20	Client should present in system for given member Client should active in system
from_scheme_code	Mandatory	VARCHAR	20	Switch out scheme code
to_scheme_code	Mandatory	VARCHAR	20	Switch in scheme code
buy_sell_type	Mandatory	VARCHAR	10	Values : FRESH/ADDITIONAL Value should not be other than FRESH/ADDITIONAL
transaction_mode	Mandatory	VARCHAR	1	Values : C = CDSL Demat, N = NSDL Demat, P = Physical For limited membership if Client Tax Status is Minor or NRI then its AOF status must be verified. For physical each holders PAN must have AOF image is either uploaded or Accepted by RTA For Physical if FATCA check is required by RTA for given scheme then Check FATCA of each holders should be either uploaded or Should not be Rejected.
folio_no	Conditional	VARCHAR	15	Mandatory in case of Physical transaction mode

internal_ref_number	Optional	VARCHAR	10	
start_date	Mandatory	VARCHAR	10	Format DD/MM/YYYY. Past date is not allowed. Day of date must be within allowed dates for SO scheme and SI scheme.
frequency_type	Mandatory	VARCHAR	20	Values : WEEKLY/ MONTHLY/ QUARTERLY/ SEMI-ANNUALLY /ANNUALLY Must be allowed for given SO and SI scheme.
no_of_transfers	Mandatory	NUMBER		Number of instalments
installment_amount	Conditional	DECIMAL	15,2	Amount for STP For Demat Instalment Unit is mandatory and Instalment Amount must be 0 or blank.. For Physical Instalment Amount or Instalment Unit is mandatory. Must be within minimum and maximum amount allowed for given SO and SI scheme. Must be a multiplier of given SO scheme amount multiplier.
installment_units	Conditional	DECIMAL	15,3	Unit for STP For Demat Instalment Unit is mandatory and Instalment Amount must be 0 or blank.. For Physical Instalment Amount or Instalment Unit is mandatory. Must be within minimum and maximum Units allowed for given SO and SI scheme. Must be a multiplier of given SO scheme's unit multiplier.
first_order_today	Mandatory	VARCHAR	1	Values : Y, N. If Y then first order will be generated on Current date.
sub_broker_code	Optional	VARCHAR	15	
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
euin_number	Conditional	VARCHAR	7	E+6 Numeric Mandatory if EUIN Declaration is Y EUIN should start with E.
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
remarks	Optional	VARCHAR	200	
sub_broker_arn	Mandatory	VARCHAR	20	Should start with ARN-
mobile	Optional	VARCHAR	10	

email	Optional	VARCHAR	50	
reg_id	Optional	NUMBER	15	Should be blank. Unique Exchange STP Registration No. in API response
reg_status	Optional	VARCHAR	15	Should be blank. Values : REG_SUCCESS,REG_FAILED. in API response
reg_remark	Optional	VARCHAR	200	Should be blank.

Sample Request Json :

```
"reg_data":
[
  {
    "client_code": "H30350",
    "from_scheme_code": "PSAD-DR",
    "to_scheme_code": "PSAG-GR",
    "buy_sell_type": "Additional",
    "transaction_mode": "C",
    "folio_no": " ",
    "internal_ref_number": "STP374698",
    "start_date": "28/08/2023",
    "frequency_type": "Monthly",
    "no_of_transfers": "12",
    "to_date": "",
    "installment_amount": "",
    "installment_units": "10",
    "first_order_today": "Y",
    "sub_broker_code": "24542",
    "euin_declaration": "Y",
    "euin_number": "E123456",
    "remarks": "",
    "sub_broker_arn_code": "",
    "mobile": "9892837654",
    "email": "test@gmail.com"
  }
]
```

Sample Response Json :

```
{
  "reg_data":
  [
    {
      "client_code": "H30350",
      "from_scheme_code": "PSAD-DR",
      "to_scheme_code": "PSAG-GR",
      "buy_sell_type": "Additional",
      "transaction_mode": "C",
      "folio_no": " ",
      "internal_ref_number": "STP374698",
      "start_date": "28/08/2023",
      "frequency_type": "Monthly",
      "no_of_transfers": "12",
      "to_date": "",
      "installment_amount": "",
      "installment_units": "10",
      "first_order_today": "Y",
      "sub_broker_code": "24542",
      "euin_declaration": "Y",
      "euin_number": "E123456",
      "remarks": "",
      "sub_broker_arn_code": "",
      "mobile": "9892837654",
      "email": "test@gmail.com",
      "reg_id": "202308081000003",
      "reg_status": "REG_SUCCESS",
      "reg_remark": " "
    }
  ]
}
```

SWP Registration Service APIURL : <https://nsemf2uat.nse.co.in/nsemfdesk/api/v2/registration/product/SWP>

Type : Post

Request Headers : As per **Common Authentication For All APIs**

Request & Response Parameters					
FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION	Remark
reg_data	Mandatory	List of Object		Refer Following table	1) Mandatory 2) Maximum 50 Orders allowed in single request

FIELD NAME	MANDATORY/ NON MANDATORY	FIELD TYPE	SIZE	DESCRIPTION
client_code	Mandatory	VARCHAR	20	Client should present in system for given member Client should active in system
scheme_code	Mandatory	VARCHAR	20	scheme code for SWP
trans_mode	Mandatory	VARCHAR	1	Values : C = CDSL Demat, N = NSDL Demat, P = Physical For limited membership if Client Tax Status is Minor or NRI then its AOF status must be verified. For physical each holders PAN must have AOF image is either uploaded or Accepted by RTA For Physical if FATCA check is required by RTA for given scheme then Check FATCA of each holders should be either uploaded or Should not be Rejected.
folio_no	Conditional	VARCHAR	15	Mandatory in case of Physical transaction mode
internal_ref_no	Optional	VARCHAR	10	
start_date	Mandatory	VARCHAR	10	Format DD/MM/YYYY. Past date is not allowed

				Day of date must be within allowed dates for SWP.
frequency_type	Mandatory	VARCHAR	20	Values : WEEKLY/ MONTHLY/ QUARTERLY/ SEMI-ANNUALLY ANNUALLY/DAILY Must be allowed for scheme
no_of_withdrawals	Optional	NUMBER		Number of Withdrawal IF "FREQUENCY" ="Daily Then Optional Else Mandatory
installment_amount	Conditional	DECIMAL	12,2	Amount for SWP For Demat Instalment Unit is mandatory and Instalment Amount must be 0 or blank.. For Physical Instalment Amount or Instalment Unit is mandatory. Must be within minimum and maximum amount allowed for given scheme. Must be a multiplier of given given scheme amount multiplier.
installment_units	Conditional	DECIMAL	12,3	Unit for STP For Demat Instalment Unit is mandatory and Instalment Amount must be 0 or blank.. For Physical Instalment Amount or Instalment Unit is mandatory. Must be within minimum and maximum Units allowed for given SO and SI scheme. Must be a multiplier of given SO scheme's unit multiplier.
first_order_today	Mandatory	VARCHAR	1	Values : Y, N. If Y then first order will be generated on Current date.
sub_broker_code	Optional	VARCHAR	15	
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
euin_number	Conditional	VARCHAR	7	E+6 Numeric Mandatory if EUIN Declaration is Y EUIN should start with E.
euin_declaration	Mandatory	VARCHAR	1	Values : Y, N.
remarks	Optional	VARCHAR	200	
sub_broker_arn	Mandatory	VARCHAR	20	Should start with ARN-
mobile	Optional	VARCHAR	10	
email	Optional	VARCHAR	50	
account_no	Mandatory	VARCHAR	50	Must be available in system for respective client
reg_id	Optional	NUMBER	15	Should be blank.

				Unique Exchange SWP Registration No. in API response
reg_status	Optional	VARCHAR	15	Should be blank. Values : REG_SUCCESS,REG_FAILED. in API response
reg_remark	Optional	VARCHAR	200	Should be blank.

Sample Request Json :

```
{
  "reg_data":
  [
    {
      "client_code": "K102",
      "scheme_code": "BS41A-DP",
      "trans_mode": "D",
      "folio_no": "9105208524",
      "internal_ref_no": "SWP111112",
      "start_date": "28/08/2023",
      "no_of_withdrawals": "12",
      "frequency_type": "Monthly",
      "installment_amount": "5000",
      "installment_units": "100",
      "first_order_today": "N",
      "sub_broker_code": "1461",
      "euin_declaration": "Y",
      "euin_number": "E213200",
      "remarks": "",
      "sub_broker_arn": "",
      "mobile": "9909011973",
      "email": "test@gmail.com",
      "account_no": "0226564545"
    }
  ]
}
```

Sample Response Json :

```
{
  "reg_data":
  [
    {
      "client_code": "K102",
      "scheme_code": "BS41A-DP",
      "trans_mode": "D",
      "folio_no": "9105208524",
      "internal_ref_no": "SWP111112",
      "start_date": "28/08/2023",
      "no_of_withdrawals": "12",
      "frequency_type": "Monthly",
      "installmentamount": "5000",
      "installment_units": "100",
      "first_order_today": "N",
      "sub_broker_code": "1461",
      "euin_declaration": "Y",
      "euin_number": "E213200",
      "remarks": "",
      "sub_broker_arn": "",
      "mobile": "9909011973",
      "email": "test@gmail.com",
      "account_no": "0226564545",
      "reg_id": "202308081000004",
      "reg_status": "REG_SUCCESS",
      "reg_remark": " "
    }
  ]
}
```