

STERLING SOFTWARE PVT LTD

Technical Specifications – Upload Image

Project: NMF II Restful Webservice

Version 2.4
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1 Web Services – Technical Specifications

1.1 Introduction

1.2 Definitions

The following are the definitions for the terms used in the document:

1.3 Scope of the project

1.3.1 Within Scope

The scope of this project is limited to designing, building and implementing Common Transaction Acceptance Platform as described in this document.



1.3.2 Out of scope

- Building and hosting of website / client application.

1.4 General Requirements

- In addition to the service specific parameters as described in this document, the following parameters shall be mandatory input for each service:
 - Application ID – Unique User ID to authenticate Web service requests.
 - Password – Valid password for the User ID.
- The Web services will be deployed on secure channel (HTTPS).
- The Web services will return data in industry standard XML message format.
- Based on this input we have to implement the service level authentication.

Sl. No	Column Name	Data Type	Mandatory	Field Validation
1	Appln_id	Varchar2(20)	Yes	Must be a valid user id in TA system designated for the purpose of authenticating web service requests.
2	Password	Varchar2(15)	Yes	Must be a valid password for the Application ID.
3	BrokCode	Varchar2(15)	Yes	Must be valid Broker Code.

- The web services shall return the result code as '0' or any other digit(s), where 0 indicates success and non-zero value indicates errors.
- Response format will have xml version like `<?xml version=""1.0"" encoding=""UTF-8""?>`
- The values of Application ID & Password are:
 -  Appln_id - << Contact NSE BO >>
 -  Password – << Contact NSE BO >>

This is mandatory information to consume the API

- Valid BrokCode - Broker should be empanelled
- Valid Appln_id and Password

1.5 Service Specific Requirements

1.5.1 Method to Upload Image

Method Name: **“UPLOADIMG”**

This service will allow to Upload the Image

Pass the input as mentioned below.

Field	Data Type	Mandatory	Remarks
Appln_id	Varchar2(20)	Y	
Password	Varchar2(15)	Y	
BrokCode	Varchar2(15)	Y	
CustomerID	Varchar2(20)	Y	
RefNo	Varchar2(15)	N	Mandatory for 1. Transactions: Pass Unique Ref No. You will get unique ref no after placing transaction 2. ACH Form: Pass Unique No. You will get unique number after registering new ACH Registration.
ImageType	Char (1)	Y	DL – Driving License, PC – PAN Card, IP – IIN Physical Form, PA – Passport, AA – AADHAR Card, KF – KRA Form, CH – Cheque, AC – ACH Form P – POA AF – FATCA & AOF PQ - POA Cheque. IMPS – IMPS DOCUMENT X – Transaction Image
Image	Stream	Y	Content type should be Application / Ocet-Stream
ImageFormat	Varchar2(15)	N	PDF / TIFF Default value is TIFF.
POABankSeq	Varchar2(10)	N	Mandatory, if image type is 'PQ'

For Success Case:

```
<NMFIIServices>
  <service_status>
    <service_return_code>0</service_return_code>
    <service_msg>Success</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Image Saved Successfully.
    </return_msg>
  </service_response>
</NMFIIServices>
```

For Failure Case:

```
<NMFIIServices>
  <service_status>
    <service_return_code>1</service_return_code>
    <service_msg>Failure</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Failed to upload. Invalid Byte.
    </return_msg>
  </service_response>
</NMFIIServices>
```

Output data as table format:

For Service Status:

XML Tag	Remarks
service_return_code	0 / 1
service_msg	(0) Success / (1) Failure

For Success Case:

Service Response:

XML Tag	Remarks
return_msg	Image Uploaded successfully

For Failure Case:**Service Response:**

XML Tag	Remarks
return_msg	Image upload failed.

1.5.2 Method to Upload Additional Bank Mandate Image

Method Name : “**UploadBankImg**”

This service will allow to upload the Image

Pass the input as mentioned below.

Field	Data Type	Mandatory	Remarks
Appln_id	Varchar2(20)	Y	
Password	Varchar2(15)	Y	
BrokCode	Varchar2(15)	Y	
CustomerID	Varchar2(20)	Y	
BankCode	Varchar2(15)	Y	
AccNo	Varchar2(40)	Y	
ImageType	Char(1)	Y	B – Bank Proof Image
Image	Stream	Y	Content type should be Application / Ocet-Stream
ImageFormat	Varchar2(15)	N	PDF / TIFF Default value is TIFF.
POAFlag	Varchar2(1)	N	Mandatory, if the Image is for POA Bank Details. Values should be Y/N

			Y means Yes N means No
POABankType	Varchar2(10)	N	Mandatory, if POAFlag is "Y". DPCMS NDCPMS

For Success Case:

```

<NMFIIServices>
  <service_status>
    <service_return_code>0</service_return_code>
    <service_msg>Success</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Image Saved Successfully.
    </return_msg>
  </service_response>
</NMFIIServices>

```

```

<NMFIIServices>
  <service_status>
    <service_return_code>1</service_return_code>
    <service_msg>Failure</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Failed to upload. Invalid Byte.
    </return_msg>
  </service_response>
</NMFIIServices>

```

Output data as table format:

For Service Status:

XML Tag	Remarks
service_return_code	0 / 1
service_msg	(0) Success / (1) Failure

For Success Case:

Service Response:

XML Tag	Remarks
return_msg	Image Uploaded successfully

For Failure Case:**Service Response:**

XML Tag	Remarks
return_msg	Image upload failed.

1.5.3 Method to Upload FATCA/UBO Image

Method Name: “UploadFATCAUBOImg”

This service will allow to upload the Image

Pass the input as mentioned below.

Field	Data Type	Mandatory	Remarks
Appln_id	Varchar2(20)	Y	
Password	Varchar2(15)	Y	
BrokCode	Varchar2(15)	Y	
PAN	Varchar2(10)	Y	SDFSS3422S
ImageType	Char(1)	Y	F – FATCA Proof Image U - UBO Proof Image
Image	Stream	Y	Content type should be Application / Ocet-Stream
ImageFormat	Varchar2(15)	N	PDF / TIFF Default value is TIFF.

For Success Case:

```
<NMFIServices>  
  <service_status>
```



```

        <service_return_code>0</service_return_code>
        <service_msg>Success</service_msg>
    </service_status>
    <service_response>
        <return_msg>
            Image Saved Successfully.
        </return_msg>
    </service_response>
</NMFIIServices>

```

```

<NMFIIServices>
    <service_status>
        <service_return_code>1</service_return_code>
        <service_msg>Failure</service_msg>
    </service_status>
    <service_response>
        <return_msg>
            Failed to upload. Invalid Byte.
        </return_msg>
    </service_response>
</NMFIIServices>

```

Output data as table format:

For Service Status:

XML Tag	Remarks
service_return_code	0 / 1
service_msg	(0) Success / (1) Failure

For Success Case:

Service Response:

XML Tag	Remarks
return_msg	Image Uploaded successfully

For Failure Case:

Service Response:

XML Tag	Remarks
return_msg	Image upload failed.

1.5.4 Method to Upload IIN Modification Request Image

Method Name: “**UploadIINModificationImg**”

This service will allow to upload the Image

Pass the input as mentioned below.

Field	Data Type	Mandatory	Remarks
Appln_id	Varchar2(20)	Y	
Password	Varchar2(15)	Y	
BrokCode	Varchar2(15)	Y	
CustomerID	Varchar2(10)	Y	5011000029
SeqNo	Varchar2(20)	Y	123456
Image	Stream	Y	Content type should be Application / Ocet-Stream
ImageFormat	Varchar2(15)	N	PDF / TIFF Default value is TIFF.

For Success Case:

```
<NMFIIServices>
  <service_status>
    <service_return_code>0</service_return_code>
    <service_msg>Success</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Image Saved Successfully.
    </return_msg>
  </service_response>
</NMFIIService>
```

```
<NMFIIService>
  <service_status>
    <service_return_code>1</service_return_code>
    <service_msg>Failure</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Failed to upload.Invalid Byte.
    </return_msg>
  </service_response>
</NMFIIServices>
```

Output data as table format:

For Service Status:

XML Tag	Remarks
service_return_code	0 / 1
service_msg	(0) Success / (1) Failure

For Success Case:

Service Response:

XML Tag	Remarks
return_msg	Image Uploaded successfully

For Failure Case:

Service Response:

XML Tag	Remarks
return_msg	Image upload failed.

1.5.5 Method to Upload Donor Image

Method Name: “**DonorImageUpload**”

This service will allow to upload the Image

Pass the input as mentioned below.

Field	Data Type	Mandatory	Remarks
AppIn_id	Varchar2(20)	Y	XXXXX
Password	Varchar2(15)	Y	XXXXX
BrokCode	Varchar2(15)	Y	ARN-70209
CustomerID	Varchar2(10)	Y	5011000029
SeqNo	Varchar2(20)	Y	
ImageType	Char(1)	Y	CH – Cancelled Cheque DF – Donor Form

Image	Stream	Y	Content type should be Application / Ocet-Stream
ImageFormat	Varchar2(15)	N	PDF / TIFF Default value is TIFF.

For Success Case:

```

<NMFIIServices>
  <service_status>
    <service_return_code>0</service_return_code>
    <service_msg>Success</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Image Saved Successfully.
    </return_msg>
  </service_response>
</NMFIIServices>

```

```

<NMFIIServices>
  <service_status>
    <service_return_code>1</service_return_code>
    <service_msg>Failure</service_msg>
  </service_status>
  <service_response>
    <return_msg>
      Failed to upload. Invalid Byte.
    </return_msg>
  </service_response>
</NMFIIServices>

```

Output data as table format:

For Service Status:

XML Tag	Remarks
service_return_code	0 / 1
service_msg	(0) Success / (1) Failure

For Success Case:

Service Response:

XML Tag	Remarks
---------	---------

return_msg	Image Save successfully
------------	-------------------------

For Failure Case:

Service Response:

XML Tag	Remarks
return_msg	Image upload failed.

Document Change History

Date	Version	Change Reference
12-Jun-2015	1.0 to 1.2	Document Created and updated
31-Aug-2015	1.3	Ref number remarks updated
22-Sep-2015	1.4	UAT URL added, Sample code snapshot changed
15-Oct-2015	1.5	Image type included in 1.5.1 section
09-Aug-2016	1.6	Added Bank Mandate Image Upload in 1.5.2 section
29-Sep-2016	1.7	Added AccNo parameter in Bank Mandate Image Upload section 1.5.2
16-Aug-2017	1.8	Added ImageFormat parameter in Method "UPLOADIMG" section 1.5.1 and Method "UploadBankImg" section 1.5.2
21-Aug-2018	1.9	Added New Type " POA " in image type tag in Method "UPLOADIMG" section 1.5.1
29-Aug-2018	2.0	Added FATCA / UBO Image Upload in 1.5.3 section
16-Nov-2018	2.1	Added FATCA & AOF Image Type added in 1.5.2 section
22-Nov-2018	2.2	Added one more Image Type as "PQ" for POA Bank Image and POA Bank Seq No tag is added in "UPLOADIMG" in 1.5.1 Section
22-Nov-2018	2.2	Added POABankType and POAFlag tags in "UploadBankImg" in 1.5.2 section
08-Jul-2019	2.3	Added New Method of "UploadIINModificationImg" for IIN Modification Image Upload.
06-Feb-2020	2.4	Added New Method of "DonorImageUpload" for Donor Image Upload.

1.7 Important Note

Error Message	Description
Bad Request	Invalid URL (Http or Https or URL is wrong).
Error occurred while processing	Tag Missing (The input XML string should contain all the

XML tags irrespective of mandatory).

UAT URL: <https://uat.nsenmf.com/NMFillImageUpload/ImageUpload>

How to consume Service:

```
Dim url As String = String.Empty
Dim resp As HttpWebResponse
Dim req As HttpWebRequest

url = "https://uat.nsenmf.com/NMFillImageUpload/ImageUpload/"
url = url & "UPLOADIMG?Brokcode=ARN-0003&Appln_id=MFS0003&Password=TEST$258&CustomerID=5011211532&RefNo=6509&ImageType=CH&ImageFormat=TIF"

req = TryCast(HttpWebRequest.Create(url), HttpWebRequest)
req.Method = "POST"
req.ContentType = "application/octet-stream"
req.ContentLength = filebyte.Length
Dim reqStream As Stream = req.GetRequestStream()
reqStream.Write(filebyte, 0, filebyte.Length)
reqStream.Close()

resp = DirectCast(req.GetResponse(), HttpWebResponse)
reader = New StreamReader(resp.GetResponseStream())
Dim xmlele As XDocument
xmlele = XDocument.Load(reader)
Dim strReader As StringReader = New StringReader(xmlele.ToString())
Dim ds As New DataSet
ds.ReadXml(strReader)
```