



SaveLeadForm API GATEWAY DOC

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1. INTRODUCTION

1.1 Design Document Purpose

The purpose of this document is to provide a detailed specification of the **saveLeadform** in sufficient depth to:

- Enable the component to be built and tested.
- Ensure that it can be enhanced, supported and maintained by other areas of the organization after initial implementation.

1.2 Design Reviews

The service design will be reviewed within Middleware team and security testing team as needed. Once finalized, design resource will provide an overview to other teams such as front end application development team and various project resources.

2. API CONNECT COMPONENTS

- API Connect is used to expose the service to front end applications.
- Within API Connect, there are multiple Products. The **saveLeadform** API is exposed within **saveLeadform Products** .
- Service Consumers must subscribe to the API. A unique application Identification (client-id) and a secret will be generated.
- The assigned Client-id must be supplied in the header for each API.
- URLs for invoking the services can be found in API Connect Developer portal and also mentioned in the below section.

3. TO ACCESS & SUBSCRIBE IN PORTAL

Refer Subscription User manual shared during initial on board.

4. API AUTHENTICATION

JWT Access token to be passed in JSON wrapper as string value in "JWTTokenValue" field. The Token can be generated by subscribing to **TOKEN API**.

3.1 TOKEN API

- **Overview:** To retrieve access token.
- **METHOD:** POST
- **Mandatory HTTP Headers:**
 - X-IBM-Client-Id: xxxxxxxxxxxxxxxxx
 - X-IBM-Client-Secret: xxxxxxxxxxxxxxxxx
- **SIT URL:** <https://apiuat.ujjivansfb.in/ujjivan/development/v1/tokens>
- **PROD URL:** <https://api.ujjivansfb.in/ujjivan/production/v1/tokens>

5. SaveLead API Details

- **Overview:**

Service is designed to create new/update lead for a customer. The API Gateway makes a backend ESB call which in turn connects to provider system **CRM** of service name **LeadCreation**.

- **METHOD:** POST
- **API URL:**
UAT : <https://apiuat.ujjivansfb.in/ujjivan/development/v2/leadCreation/saveLead>
- **Mandatory HTTP Headers:**
 - X-IBM-Client-Id: xxxxxxxxxxxxxxxx
- **Accept:** application/json
- **Content-type:** application/json
- **REQUEST PAYLOAD:**

At API Gateway the request has to be passed as JSON wrapper. The sample payload is as below,

```
{
  "RequestEncryptedValue": "",
  "TransactionId": "",
  "JWTTokenValue": ""
}
```

The individual fields of the Standard JSON Request Payload are described below-

- **RequestEncryptedValue** : This will contain the encrypted value of original REST-JSON request sample.
- **TransactionId** : External partners need to set a transaction ID to uniquely identify every request, in order to retrieve it from an audit trail at a later date.
- **JWTTokenValue** : This value can be obtained by invoking Bank's token generator service.

(For more details on request encryption Refer UjjivanSFB_API_Integration_TechnicalProcess_document)

➤ **Actual REST-JSON Input Parameter:**

Element Name	M/O/C	Data Type	Size	Description	Validation Rules
saveLeadReq / reqHdr	Complex				
reqHdr/consumerContext/applicationId	M	String	3	Application id from which request originated. Example IB, MB,HHD, BRN	
reqHdr/serviceContext/uniqueMsgId	M	String		Unique request message id for each message generated from consumer for tracking purpose.	
reqHdr/serviceContext/reqMsgDateTime	M	DateTime		Request time stamp in the format CCYY-MM-DDThh:mm:ss.sss	
reqHdr/serviceContext/serviceName	M	String		ServiceName to be provided.	
reqHdr/serviceContext/serviceVersion	O	String		Service version to be provided. It's value is 1.	
reqHdr/providerContext/providerId	O/F	String	3	Provide application Id from where data expecting	



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reqHdr/ userContext/ appUserID	M	String	20	AppUserId will be provided which is created unique to user. Client need to pass this value each and every request.	
reqHdr/ userContext/ appPassword	M	String	64	AppPassword will be provided which is specific to user. Client need to pass this value each and every request.	
saveLeadReq/body	M	Complex			
body/title	C/M	String	8	1-MR 5-MRS 15-MS 2-M/S 18 - INS 7 - MSTR 3 - DR	Mandatory for lead creation of retail customer
body/firstName	C/M	String	256	First name of the customer	Mandatory for lead creation of retail customer
body/lastName OR body/ organizationName	C/M	String	256	Customer last name is Mandatory for lead creation of retail customer. "organizationName" is Mandatory for lead creation of corporate customer.	
body/middleName	O	String	256	Customer middle name	
body/dateOfBirth	C/M	Date		YYYY-MM-DD	Mandatory for lead creation of retail customer
body/customerType	M	String	1	1- Existing Customer 2 - New Customer	
body/ custId	C/M	String	16	Mandatory if "customerType" is selected as "Existing Customer"	
body/ employeeId	C/M	String	10	If Source of lead is "Employee Referral" then Employee ID is mandatory	
body/ isCustomerUjjivanEmpl oyee	M	String	1	Y-Yes N-No	
body/ ujjivanEmpId	C/M	String	50	Conditional Mandatory,when 'isCustomerUjjivanEmployee' is Y	
body/mobileNumber	M	Number	15	Customer mobilenumbr	
body/ emailId	O	String	50		
body/statusCodeKey	M	Number	6	Indicates the status of the lead 100002-New Lead, 100007- Appointment Fixed For corporate lead creation 100002 - New Lead (Always) <u>Note:</u> If Mobile no. + Product combination is duplicate, Lead will be saved in 100020 - Duplicate Lead Confirmation	

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body/branchCode	M	String	6	Branch code 1101- Default for IB/ MB.	
body/sourceOfLead	M	String	2	1-Self-Referral 2-Wish-List 3-Customer Referral Call 4-Activity Lead 5-Branch Lead 6-Email 7-SMS 9-Campaign 10-Cold Call 11-Others 13-Employee Referral	
body/otherSourceOfLead	C/M	String	30	If source of lead is "Others" please specify details here	
body/campaignName	C/M	String	20	If source of lead is "Campaign", then this field is mandatory	
body/ratingKey	M	String	10	1-Hot, 2-Cold, 3-Warm, 4-Dead For CorporateLeadCreation Default value '3'	
body/priorityLead	O	String	10	Holds the lead priority	
body/productCategoryId	M	String	3	Refer Ujjivan BPD sheet	
body/productKey	M	Number	3	Refer Ujjivan BPD sheet	
body/ layoutKey	M	String	6	Assets-102201 Liability -102139 Primaryholder - 102139 JointHolder - 102184 CorporateLead -102445 CorporateAsset - 102699	CorporateAsset will be used for corporate Lead creation.
body/ channel	C/M	String	7	CRMNEXT, HHD I exceed needs to pass 'HHD' as default while creating Lead from their end	Mandatory for lead creation of retail customer
body/ centerNo	O	Number			
body/ groupNo	O	Number			
body/ pan	O	String	10	pan number	
body/ aadharNumber	O	Number	12	Aadhar number/ aadhar ref number	
body/ voterId	O	String	10		
body/ constitution	M	String	10	Default 'INDIVIDUAL' – for Retail Customer Possible values to create Corporate Lead 003 - SECTION 8 COMPANIES 011 - PARTNERSHIP FIRM 013 - PUBLIC LIMITED COMPANY 001 - TRUST	

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				014 - DOMESTIC NATIONALIZED BANK 012 - PRIVATE LIMITED COMPANY 009 - SOLE PROPRIETORSHIP 015 - DOMESTIC CO-OPERATIVE BANK 017 - LIMITED LIABILITY PARTNERSHIP 002 - ASSOCIATION 016 - DOMESTIC PRIVATE BANK 005 - GOVERNMENT 010 - ONE PERSON COMPANY 018 - REGIONAL RURAL BANK 004 - SOCIETY 006 - INTERNATIONAL UNREGISTERED CLUBS (ROTARY/LIONS ETC) 007 - SECTION 25 COMPANIES	
body/leadKey	C/M	String	16	Lead id Mandatory, for lead update	
body/leadParentId	C/M	String	8	Mandatory when creating secondary lead	
body/appointmentDateTime	C/M	DateTime		Appointment fix date and time Mandatory for appointment fix stage yyyy-mm-ddThh:mm:ss.sss.	
body/ occupation	O	String	3	Refer Excel	
body/ occupationType	O	String		Salaried Self Employed Unemployed Others	 consolidate occupation list.xlsx
body/ corpEmpId	O	String	15		
body/ joiningDt	O	Date		yyyy-mm-dd	
body/ corpCode	O	String	5	Code and value present in next tab (corporate code)	 CorporateCodeWith Description.xlsx
body/ isAvailableKITAcctNo	C/M	String	16	Conditional Mandatory if Add on Facilities, user selects 'Insta Kit'	
body/ facilitiesRequired	O	String	1	Y or N	
body/ instakitCIFID	M	String	16	Represents Customer Number	
body/ instakitAccountNumber	M	String	16	Represents account Number	
body/ modeOfOperation	M	String	2	1 - SELF 4 - Jointly or Survivor 2 - Either OR Survivor 3 - Former OR Survivor 5 - Any 1 Single or Survivor 29 - MINOR ALONE & OPERATED BY GUARDIAN 6- Any 2 jointly 8- Jointly by all	

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				22 - As per Trust Deed/Board Resolution/Account opening Authority letter 50 – SEVERALLY 11 - Any one Partner 21 - As per Board resolution 51 - JOINTLY BY ANY TWO	
body/ leadGeneratorId	O	String	10	Represents lead Generator Id	
body/ leadConverterId	O	String	10	Represents lead Converter Id	
body/ refByCIFId	C/M	String	12	If source of lead is " Customer Referral Call " please specify details here	
body/reasonForClosure	C/M	String	3000	Mandatory (whenever lead is not interested). statusCodeKey - > 100006.	
body/followUpDt	C/M	Date		Depending on statusCodeKey = 100009." yyyy-mm-ddThh:mm:ss.sss."	
body/aadharVaultStatus	C/M	Number	1	0 – Success 1 – failure Need to handle null case in source system. Value based on aadharNumber field on vaulted or not.	
body/ totMonthlyIncome	C/M	Decimal			If product is HomeLoan() , then this four fields are mandatory .
body/ loanAmt	C/M	Decimal			
body/ employmentStatus	C/M	String	26	<ul style="list-style-type: none"> • Employed • Out of Work • Retired • Self-employed 	
body/ purpOfLoan	C/M	String	80	<ul style="list-style-type: none"> • Composite loan • Home equity loan • Home improvement loan • Home Loan Construction and purchase loan 	
body/ dropOutCust	C/M	integer	1	1-Yes,2-No	Use Under digital Platform for drop out lead information.
body/ dropOutStage	C/M	String	60	1 - Mobile and Email verification pending(Application Id not generated), 2 - PAN and Aadhaar verification pending, 4 - Customer details pending, 6 - Deposit details and Nominee details pending, 7 - Lead Review pending, 8 - Esign pending, 12 - Payment and Lead Submitted pending, 13 - On board(CIF and Account	

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				Number) pending, 14 - CIF and Account got created and appointment date pending	
body/ dropOffDisposition	C/M	String	94	Ex : LOV's : Busy tone, Call back Later, Call Drop, Customer disconnecting the call, Customer not available in banking working hours, Family member number , Not reachable, Number does not exist, Number out of service, Ringing no response, Successful , Switched off, Voice Mail, Wrong Number	
body/ agentID	C/M	String	60		

➤ **RESPONSE PAYLOAD STRUCTURE**

A standard JSON wrapper containing encrypted response will be obtained. The encrypted response is of AES/CBC/256 mode with Initialization vector concatenated at the start of original JSON response.

The sample response structure is as below,

```
{
  "ResponseOfEncryptedValue": "<encrypted value>",
  "TransactionId": "162193467244544"
}
```

Using the static key shared by Ujjivan Bank, decryption of the value in tag ResponseEncryptedValue should be performed with AES/CBC/256/IV

TransactionId: This field will contain the transaction ID which was passed in request.

(For more details on response encryption Refer UjjivanSFB_API_Integration_TechnicalProcess_document)

➤ **ACTUAL OUTPUT PARAMETERS:**

Response					
saveLeadRes / resHdr	Complex				
resHdr/consumerContext/applicationId	M	String	3	Value will be echoed from request message	
resHdr/ serviceContext/ uniqueMsgId	M	String		Value will be echoed from request message	
resHdr/ serviceContext/ reqMsgDateTime	O	Date Time		Value will be echoed from request message	
resHdr/ serviceContext/ serviceName	M	String		Value will be echoed from request message	

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reqHdr/ serviceContext/ serviceVersion	O	String		Value will be echoed from request message	
resHdr/ providerContext/ providerId	M	String	3	Provider System Id from where data is sending	
resHdr/ providerContext/ responseMsgDateTi me	O	DateTim e		Response message date and time stamp.	
resHdr/responseStat us/status	M	String		Response status from ESB	
				Status 0 = Successful, 1 = Failure	
saveLeadRes / body	M	Complex			
saveLeadRes/body/l eadId	M	String	8	Lead Id	
saveLeadRes/body/ leadStatus	M	String	50	Lead status	
saveLeadRes /body/errorInfo	O, Repe ating	Complex			Will be populated in case of any business exception from back end
saveLeadRes /body/errorInfo/ errorSource	O	String		If Status = 1, value will be populated with error system source	Will be populated in case of exceptions thrown by ESB
saveLeadRes /body/errorInfo/ errorCode	C	String		If Status = 1, value will be populated with error code	
saveLeadRes /body/errorInfo/ errorDescription	C	String		If Status = 1, value will be populated with error description	
saveLeadRes /body/errorInfo/ errorType	O	String	1	If Status = 1, value will be populated with error Type	
resHdr/ additionalDetails/ details1	O/F	String		Future Use	
resHdr/ additionalDetails/ details1	O/F	String		Future Use	
resHdr/ additionalDetails/ details1	O/F	String		Future Use	

➤ **Error Handling**

HTTP Status Code	HTTP Message	More Information
401	Unauthorized	Access token missing or validation
400	Bad Request	The parameters are invalid or missing.
503	Service Unavailable	The parameters were valid but the

		request failed.
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