



AddPaymentSI 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 **AddPaymentSI** 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 **AddPaymentSI** API is exposed within **AddPaymentSI 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 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**.

4.1 TOKEN API

- **Overview:** To retrieve access token.
- **METHOD:** GET
- **Mandatory HTTP Headers:**
 - X-IBM-Client-Id: xxxxxxxxxxxxxxxx
 - X-IBM-Client-Secret: xxxxxxxxxxxxxxxx
- **UAT URL:** <https://apiuat.ujjivansfb.in/ujjivan/development/v1/tokens>

5. AddPaymentSI API DESIGN

- **Overview:**

Service is designed to setup a SI. The API Gateway makes a backend ESB call which in turn connects to **1.FISSOLogin, 2.CreditAdd, 3.Ballnq & 4.FISSOLogout**

- **METHOD:** POST
- **API URL:**
 - UAT : <https://apiuat.ujjivansfb.in/ujjivan/development/v1/recPmtAdd/addPaymentSI>
- **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": "",
  "JWTTokenValue": "",
  "TransactionId": ""
}
```

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
addPaymentSIReq / 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	
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.	
addPaymentSIReq/body/custId	M	String	50	Customer Id	

SIType	O	String	1	Standing instruction type. Valid values are C – Customer Induced B – Bank Induced	If no value provided, ESB will default to C
debitAccountNumber	M	String	16	Account number from which amount to be debited for SI	
creditAccountNumber	M	String	16	Beneficiary account number to which amount to be credited	
amount	M	Decimal		Amount value	
addPaymentSIReq/body/freq	O	Complex		Provide the SI frequency in this structure	
freq/freqType	M	String	1	Frequency type of the SI	M – Monthly Note: CBS to provide all valid values
freq/onDate	C	Number		On which date SI to be executed	Just send the date alone. Values between 1 to 31. If you provide this value, should leave weekday & week number blank
freq/startDt	M	date		Provide the date from which SI to be executed.	YYYY-MM-DDThh:mm:ss.sss
freq/endDt	M	date		Date up to which the SI is valid	YYYY-MM-DDThh:mm:ss.sss
freq/weekDay	C	Number		If wants to specify on which day in the week SI to be executed	Valid values are 1-Sun, 2-Mon, 3-Tue, 4-Wed, 5-Thu, 6-Fri and 7-Sat. If you provide values to weekday & week number, should leave 'onDate' blank
freq/weekNumber	C	Number		If wants to specify in which week of the month SI to be executed	
freq/holidayStatus	O	String	1	Specify when to execute SI, if the scheduled day is bank holiday. Valid values are S – skip N – NextDay P – Previous day	Default value is N

➤ **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 Ujivan 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 UjivanSFB_API_Integration_TechnicalProcess_document)

➤ **ACTUAL OUTPUT PARAMETERS:**

Response					
addPaymentSIRes/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	DateTime		Value will be echoed from request message	
resHdr/serviceContext/serviceName	M	String		Value will be echoed from request message	
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/responseMsgDateTime	O	DateTime		Response message date and time stamp.	
resHdr/responseStatus/status	M	String		Response status from ESB	
				Status 0 = Successful, 1 = Failure	
resHdr/responseStatus/esbResDateTime	M	DateTime		Response date time stamp from ESB	
addPaymentSIRes/body/SINum	M	String		SI serial number	
addPaymentSIRes/body/errorInfo	O, Repeating	Complex			Will be populated in case of any business exception from back end

addPaymentSIRes /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
addPaymentSIRes /body/errorInfo/ errorCode	C	String		If Status = 1, value will be populated with error code	
addPaymentSIRes /body/errorInfo/ errorDescription	C	String		If Status = 1, value will be populated with error description	
addPaymentSIRes /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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