



## **UpdatePaymentSI API GATEWAY DOC**

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### 1.1 Design Document Purpose

The purpose of this document is to provide a detailed specification of the **UpdatePaymentSI** 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 **UpdatePaymentSI** API is exposed within **UpdatePaymentSI 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: xxxxxxxxxxxxxxxxx
  - X-IBM-Client-Secret: xxxxxxxxxxxxxxxxx
- **UAT URL:** <https://apiuat.ujjivansfb.in/ujjivan/development/v1/tokens>

## 5. UpdatePaymentSI API DESIGN

- **Overview:**

Service is designed to update already created SI. The API Gateway makes a backend ESB call which in turn connects to : **1.FISSOLogin, 2.RecPmtMod & 3.FISSOLogout**

- **METHOD:** POST
- **API URL:**
  - UAT : <https://apiuat.ujjivansfb.in/ujjivan/development/v1/recPmtAdd/updatePaymentSI>
- **Mandatory HTTP Headers:**
  - X-IBM-Client-Id: xxxxxxxxxxxxxxxxx

- **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 UjivanSFB\_API\_Integration\_TechnicalProcess\_document)

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

| Element Name                         | M/O/C | Data Type | Size | Description  | Validation Rules |
|--------------------------------------|-------|-----------|------|--|------------------|
| updatePaymentSIReq / 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.     |                  |
| updatePaymentSIReq/body/             | M     | Complex   |      |  |                  |
| body/SINum                           | M     | String    | 12   | SI number to be updated  |                  |

|                              |   |         |    |   |  |
|------------------------------|---|---------|----|---|--|
| body/creditAccountNumber     | O | String  | 16 |   |  |
| body/debitAccountNumber      | M | String  | 16 |   |  |
| body/currCode                | M | String  | 6  | Ex: INR   |  |
| updatePaymentSIReq/body/freq | O | Complex |    | Provide the SI frequency details to update  |  |
| freq/freqType                | M | String  | 1  | Frequency type of the SI  | M – Monthly<br>Note: CBS to provide all valid values   |
| freq/onDate                  | M | 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                 | O | 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              | O | 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<br>S – skip<br>N – NextDay<br>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 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                                      |              |          |    |   |   |
|---|--------------|----------|----|---|---|
| updatePaymentSIRes/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                               |   |
| updatePaymentSIRes/body/SINum                 | M            | String   | 12 | SI number updated   |   |
| updatePaymentSIRes/body/errorInfo             | O, Repeating | Complex  |    |   | Will be populated in case of any business exception from back end |
| updatePaymentSIRes/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             |

|  |     |        |   |   |  |
|--|-----|--------|---|---|--|
| updatePaymentSIRes<br>/body/errorInfo/<br>errorCode        | C   | String |   | If Status = 1, value will be populated with error code        |  |
| updatePaymentSIRes<br>/body/errorInfo/<br>errorDescription | C   | String |   | If Status = 1, value will be populated with error description |  |
| updatePaymentSIRes<br>/body/errorInfo/<br>errorType        | O   | String | 1 | If Status = 1, value will be populated with error Type        |  |
| resHdr/<br>additionalDetails/<br>details1                  | O/F | String |   | Future Use  |  |
| resHdr/<br>additionalDetails/<br>details1                  | O/F | String |   | Future Use  |  |
| resHdr/<br>additionalDetails/<br>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. |

-----END OF DOCUMENT-----