

GetLoanPaymentSchedule 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 **GetLoanPaymentSchedule** 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 GetLoanPaymentSchedule API is exposed within GetLoanPaymentSchedule Product.
- 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. STEPS 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 "JWTokenValue" field. The Token can be generated by subscribing to **TOKEN API**.

4.1 TOKEN API

>Overview: To retrieve access token.

➤ Request Type: POST

➤ Mandatory HTTP Headers:

➤ SIT URL: https://apiuat.ujjivansfb.in/ujjivan/production/v1/tokens
➤ PROD URL: https://api.ujjivansfb.in/ujjivan/production/v1/tokens

5. GetLoanPaymentSchedule API DETAILS

Overview:

Service is designed to retrieve loan EMI payment schedule for a given account. The API Gateway makes a backend ESB call which in turn connects to provider system **CRM** of service name **FindAmortSchedule & GetLoanPaymentSchedule (BR.Net).**

Request Type: POST

➤ API URL:

UAT:

 $\underline{https://apiuat.ujjivansfb.in/ujjivan/development/v1/getFullAccStatWithPagination/getAccountStmtPagination/getAccountS$

PROD: To be done

Mandatory HTTP Headers:

> 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": "",
"JWTokenValue": ""
}
```

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.
- JWTokenValue: 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
getLoanPaymentSched uleReq / reqHdr	Comp	llex			
reqHdr/consumerCont ext/applicationId	М	String	3	Application id from which request originated. Example IB, MB,HHD, BRN	
reqHdr/ serviceContext/ uniqueMsgId	М	Stirng		Unique request message id for each message generated from consumer for tracking purpose.	
reqHdr/ serviceContext/ reqMsgDateTime	М	DateTime		Request time stamp in the format CCYY-MM-DDThh:mm:ss.sss	

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reqHdr/	М	String		ServiceName to be provided.
serviceContext/				
serviceName				
reqHdr/	0	String		Service version to be provided. It's
serviceContext/				value is 1.
serviceVersion				
reqHdr/	O/F	String	3	Provide application Id from where
providerContext/				data expecting
providerId				
reqHdr/ userContext/	M	String	20	AppUserId will be provided which is
appUserID				created unique to user. Client need to
				pass this value each and every
				request.
reqHdr/ userContext/	M	String	64	AppPassword will be provided which
appPassword				is specific to user. Client need to pass
				this value each and every request.
getLoanPaymentSched	l			
uleReq / body	М	Complex		
getLoanPaymentSched	М	String	16	Loan account number of the account
uleReq		_		for amendment or rescheduling of
/body/accountNumber				loans

> RESPONSE PAYLOAD STRUCTURE

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

The sample response structure is as below,

```
{
    "ResponseOfEncrytptedValue": "<encrytped 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					
getLoanPaymentSche duleRes /resHdr	Complex				
resHdr/consumerCon text/applicationId	М	String	3	Value will be echoed from request message	
resHdr/ serviceContext/ uniqueMsgld	М	Stirng		Value will be echoed from request message	
resHdr/ serviceContext/ reqMsgDateTime	0	DateTime		Value will be echoed from request message	
resHdr/ serviceContext/ serviceName	M	String		Value will be echoed from request message	

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		T	API	Sateway Document-GetLoanPaymentSch	euule
reqHdr/	0	String		Value will be echoed from request	
serviceContext/				message	
serviceVersion		1			
resHdr/	M	String	3	Provider System Id from where data	
providerContext/				is sending	
providerId					
resHdr/	0	DateTime		Response message date and time	
providerContext/				stamp.	
responseMsgDateTim					
е					
resHdr/responseStat	M	String		Response status from ESB	
us/status					
				S	
				Status 0 = Successful, 1 = Failure	
resHdr/responseStat	M	DateTime		Response date time stamp from ESB	
us/ esbResDateTime	IVI	Daterine		Response date time stamp from ESB	
us/ espinespate fille					
getLoanPaymentSche			1		
duleRes / body	M	Complex			
duiches / Body		oop.c.			
getLoanPaymentSche	М	Complex/	1	Returns the loan schedule details	
duleRes		Repeating			
/body/amortizationD					
tls/					
amortizationSchedule					
Dtls					
amortizationSchedule	M	Decimal		Holds Sum of installement amount	
Dtls/				and fixed charge amount	
combinstlmentAmt					
amortizationSchedule	M	Decimal		Holds The total interest amount due	
Dtls/				for repayment for the particular	
cummInterestAmt				installment	
amortizationSchedule	M	Decimal		holds The total principal amount due	
Dtls/				for repayment for the particular	
cummPrincipalAmt				installment	
amortizationSchedule	М	Date		Holds date on which flow occurs	
Dtls/ flowDate					
amortizationSchedule	M	Decimal		Holds the installment amount to be	
Dtls /instalmentlAmt				amortized	
		ļ	1		
amortizationSchedule	M	Decimal		Holds the interest amount that has to	
Dtls /interestAmt				be amortized	
amortizationSchedule	M	Decimal	1	holds the principal amount that has	
Dtls /principalAmt		200000		to be amortized	
- 55 / principal/Aint					
		1			
amortizationSchedule	M	Decimal		Holds The amount pending for	
				amortization after the principal	
Dtls		i .	1	amount is amortized after each	
/principalOutStandin				l l	
/principalOutStandin gAmt				installment	
/principalOutStandin gAmt amortizationSchedule	M	String	6	installment Holds the primary key	
/principalOutStandin gAmt	M	String	6		

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API Gateway Document-GetLoanPaymentSchedule					
getLoanPaymentSche	Ο,	Complex		-	Will be
duleRes	Repeatin				populated in
/body/errorInfo	g				case of any
					business
					exception from
					back end
getLoanPaymentSche	0	String		If Status = 1, value will be populated	Will be
duleRes				with error system source	populated in
/body/errorInfo/					case of
errorSource					exceptions
					thrown by ESB
getLoanPaymentSche	С	String		If Status = 1, value will be populated	
duleRes				with error code	
/body/errorInfo/					
errorCode					
getLoanPaymentSche	С	String		If Status = 1, value will be populated	
duleRes				with error description	
/body/errorInfo/					
errorDescription					
getLoanPaymentSche	0	String	1	If Status = 1, value will be populated	
duleRes				with error Type	
/body/errorInfo/					
errorType					
resHdr/	O/F	String		Future Use	
additional Details/					
details1					
resHdr/	O/F	String		Future Use	
additionalDetails/	,				
details1					
11.1.7	0/5	C		<u> </u>	
resHdr/	O/F	String		Future Use	
additionalDetails/					
details1					

≻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.		
200	Refer section 5 for more details			

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