



GetAccountStatement 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 **GetAccountStatement** 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 **GetAccountStatement API** is exposed within **GetAccountStatement 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. 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.
- **Request Type:** POST
- **Mandatory HTTP Headers:**
 - X-IBM-Client-Id: xxxxxxxxxxxxxxxx
 - X-IBM-Client-Secret: xxxxxxxxxxxxxxxx
- **SIT URL:** <https://apiuat.ujjivansfb.in/ujjivan/development/v1/tokens>

5. GetAccountStatement API

- **Overview:**

Service is designed to get account statement for SB/CA account for a date range. The API Gateway makes a backend ESB call which in turn connects to provider system **CRM** of service name **GetFullAccountStatement**.

- **Request Type:** POST
- **API URL:**
 UAT : https://apiuat.ujjivansfb.in/ujjivan/development/v1/getFullAcctStmnt/getAccountStatement
 PROD : To be done
- **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
getAccountStatementReq / 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.	
getAccountStatementReq / body	M	Complex			
getAccountStatementReq/body/accountNumber	M	String	16	Account number to retrieve the statement details	
getAccountStatementReq/body/branchId	M	String	6	Branch Id of the account	
getAccountStatementReq/body/fromDate	M	Date		Date from which the transaction details to be retrieved	
getAccountStatementReq/body/toDate	M	Date		Date up to which the transaction details to be retrieved	

➤ **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					
getAccountStatementRes /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/ responseMsgDateTim e	O	DateTime		Response message date and time stamp.	
resHdr/responseStat us/status	M	String		Response status from ESB	
				Status 0 = Successful, 1 = Failure	
resHdr/responseStat us/ esbResDateTime	M	DateTime		Response date time stamp from ESB	
getAccountStatement Res / body	M	Complex			
getAccountStatement Res/body/accountNu mber	M	Number	16	Account number	
getAccountStatement Res/body/branchId	M	String	6	Branch Id of the account	
getAccountStatement Res/body/balanceDtl s	M	Complex			
balanceDtls/available Balance	M	Decimal		Available balance amount of the account	
balanceDtls/ffdBalanc e	M	Decimal		Holds the amount available in the FFD	
balanceDtls/floatingB alance	M	Decimal		The amount which has been lodged for outward clearing.	
balanceDtls /ledgerBalance	M	Decimal		Holds the clear and unclear balance amount	
balanceDtls/userDefi nedBalance	M	Decimal		Available balance amount in the user's account	
getAccountStatement Res/transactionDtls	M	Complex/R epeating			
transactionDtls/poste dDt	M	Date		Holds the transaction posted date	
transactionDtls/instru mentId	O	String	16	Instrument ID for the transaction	
transactionDtls/txnA mt	M	Decimal		Holds the amount value for the transaction	

transactionDtls/txnDate	M	Date		Holds the date of the transaction	
transactionDtls/txnDescription	M	String	60	Description of the transaction	
transactionDtls/txnType	M	String	1	Type of transaction	debit(D) or credit(C)
transactionDtls/txnBalance	M	Decimal		Balance amount value after transaction	
transactionDtls/txnCategory	M	String	3	Category of the transaction	
transactionDtls/txnId	M	String	9	Holds the transaction Id	
transactionDtls/txnSerialNumber	M	String	4	Transaction serial number of the inquiry	
transactionDtls/valueDate	M	Date		Holds the business date of the transaction	
transactionDtls/channelId	M	String	6		
getAccountStatementRes/body/errorInfo	O, Repeating	Complex			Will be populated in case of any business exception from back end
getAccountStatementRes/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
getAccountStatementRes/body/errorInfo/errorCode	C	String		If Status = 1, value will be populated with error code	
getAccountStatementRes/body/errorInfo/errorDescription	C	String		If Status = 1, value will be populated with error description	
getAccountStatementRes/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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