



Aerion PG Services and 3DSS Integration Details

For Merchants / Payment Aggregator

Curl Request for PG services, with Plain request body:

/saleservice/api/v1/sale

```
curl --location 'https://areionsbi.pc.enstage-sas.com/saleservice/api/v1/sale' \
--header 'x-api-key: 849ca23e-b115-11ed-a376-005056b59d84' \
--header 'Content-Type: application/json' \
--header 'pgInstanceId: 72702415' \
--data-raw '{"pgInstanceId":"72702415","action":"SERVICE_POST_MPI","transactionTypeCode":9003,"currencyCode":
:"356","acquiringBankId":"93734895","pan":"4313231992165741xxx","expiryDateYYYY":"2023","expiryDateMM
":"05","nameOnCard":"Ramesh","email":"vinod@wibmo.com","amount":100,"merchantReferenceNo":"7676yf","o
rderDesc":"FiveBurgers","merchantId":"35890949","cvv2":"178","mpiTransactionId":"1234","threeDsXid":"
TVBJWE1EMHRWM2RTNW1JMG1OMG4","threeDsEci":"05","threeDsCavvAav":"AJkBCVWDAwAAAdRcNWETdAAAAAA=","three
DsStatus":"Y","messageHash":"SERVICE-
POSTMPI:17:weqLuN2KMeiBBDvJhbskO/ZvKwM=","installment":"10","installmentFrequency":"1","maxDebitAmoun
t":"100021","siUniqueRefNum":"CHANGE2","siValidated":"0","customerDeviceId":"0.0.0.0"}'
```

/voidrefundservice/api/v1/voidorrefund: **void refund**

```
curl --location 'https://areionsbi.pc.enstage-sas.com/voidrefundservice/api/v1/voidorrefund' \
--header 'x-api-key: 777a9184-2e70-11ed-b928-005056b59d84' \
--header 'pgInstanceId: 24730649' \
--header 'Content-Type: application/json' \
--data '{
  "pgInstanceId":"72702415","merchantId":"35890949","merchantReferenceNo":"ABCDEFG1234","messageHash"
:"voidorrefund:7:H0/T7fyTlVr4Yy8xEIWtS3SjLBM=", "action":"voidorrefund","originalTransactionId":400014
2,"amount":100,"refundtype" : "", "ext1" : "" }
'
```

/transaction/api/v1/txn-status : **Enquiry API**

```
curl --location 'https://areionsbi.pc.enstage-sas.com/transaction/api/v1/txn-status' \
--header 'x-api-key: 849ca23e-b115-11ed-a376-005056b59d84' \
--header 'Content-Type: application/json' \
--header 'pgInstanceId: 72702415' \
--data '{
  "pgInstanceId":"72702415","merchantId":"35890949","merchantReferenceNo":"ABCDEFG12345","messageHash"
:"SERVICE-POSTMPI:17:uyyxT3nlQLb1Popcy0T8cL64FFI=", "amount": 100, "currencyCode": "356" }'
```

Encryption details:

Method: AES 256 encryption



MleHelperKit.7z

Code snippet: attached Zip file which contains a **java app** to help with encryption and decryption, please find below properties to configure.

```
CLIENT_JKS_FILE_NAME=Path to clientJks.jks attached belows
CLIENT_JKS_FILE_PWD=keystore
CLIENT_ALIAS_NAME=client_keypair
CLIENT_ALIAS_PWD=password
SERVER_PK_ALIAS_NAME=wibmo_pk
```

After unzipping, in resource folder you will find below files:

- Properties file
- request.json, where you will need to put plain json request.
- response.json, where you will need to put encrypted json response from wibmo.

For encrypting the request need to run, **EncryptRequest.java**, which will output encrypted request to console.

For decrypting response, need to run, **DecryptResponse.java**, which will output plain response body to console.

Same code can be used for integration as well.

Client key pair and WIBMO public key:

Please find below jks file. Please refer above properties for credentials to use this jks.



clientJks.jks

Integration of 3DSS

There are 3 APIs need to be integrated for authentication process. The APIs are mentioned below,

1. pVrq – Versioning Request
2. pArq – Authentication Request
3. pRqFrq – Final Request to get the authentication value (Only for Challenge transaction)

1.pVrq – Versioning Request

Request URL

<https://3ds2-api-3dsserver-intg.pc.enstage-sas.com/3dsserverapi/v5/pVrq/<acquirerId>/<merchantTxnId>>

acquirerId - Acquirer Id provided by Wibmo

merchantTxnId – Generated by requestor at the time of transaction

Sample : <https://3ds2-api-3dsserver-intg.pc.enstage-sas.com/3dsserverapi/v5/pVrq/8642/54c8fefe-e694-3569-7864-d4329ce61111>

Request Payload (Plain Format):

```
{
  "messageType": "pVrq",
  "deviceChannel": "02",
  "merchantTransID": "16975448330",
  "acctNumber": "XXXXXXXXXXXXXXXX",
  "acquirerBIN": "000999",
  "acquirerID": "8642",
  "threeDSRequestorMethodNotificationRespURL": "<Method notification URL of Requestor>",
  "p_messageVersion": "2.1.0"
}
```

2.pArq – Authentication Request

Request URL

The URL for pArq should be taken from the response of pVrq API. The response contains the URL in the key “**threeDSRequestorMethodNotificationRespURL**”

Request Payload (Plain Format):

```
{
  "messageType": "pArq",
  "deviceChannel": "02",
  "merchantTransID":
    "c2e9e456037f033e5cc3d7b6e556189ae0632c0c653439014bf35dac9428d1c5c37
    6623fff98e71e7df19f8c56f18926|5c4e2c116b110513acab33ab1c4ca6d48114677b"
}
```

```
,
"messageVersion": "2.1.0",
"messageCategory": "01",
"threeDSRequestorTransID": "<Need to be taken from pVrq API response field
threeDSRequestorTransID>",
"threeDSRequestorID": "WIB59864_60143178",
"threeDSRequestorName": "Test Requestor",
"threeDSRequestorURL":
  "https://test.co.in/f6aa3db3d185eea42735828b4b9d3ec7c3041961a39fc251ce26
  7547fe303c175f6e0ddb9ff57f230187ea93158814d8/paymentLanding",
"threeDSCompInd": "Y",
"threeDSRequestorAuthenticationInd": "01",
"threeDSRequestorAuthenticationInfo": {
  "threeDSReqAuthMethod": "04",
  "threeDSReqAuthTimestamp": "202303131445",
  "threeDSReqAuthData": "00"
},
"acctNumber": "XXXXXXXXXXXXXXXXXX",
"acctType": "03",
"addrMatch": "Y",
"cardExpiryDate": "2702",
"cardholderName": "NA Empty",
"mcc": "4900",
"merchantName": "Test Merchant",
"merchantUrl":
  "https://test.co.in/f6aa3db3d185eea42735828b4b9d3ec7c3041961a39fc251ce26
  7547fe303c175f6e0ddb9ff57f230187ea93158814d8/paymentLanding",
"merchantCountryCode": "356",
"acquirerBIN": "000999",
"acquirerID": "8642",
"acquirerMerchantID": "392949411085556",
"purchaseCurrency": "356",
"purchaseExponent": "2",
"purchaseAmount": "85500",
"purchaseDate": "20230313144506",
"mobilePhone": {
  "cc": "91",
  "subscriber": "9999999999"
},
"workPhone": {
  "cc": "91",
  "subscriber": "9999999999"
},
"email": "test@example.com",
"homePhone": {
  "cc": "91",
  "subscriber": "9999999999"
},
"transType": "01",
"threeRIInd": "02",
"threeDSRequestorFinalAuthRespURL": "<URL of requestor where the final
```

```
        authentication value will be posted. Only for Challenge transaction>",
        "browserAcceptHeader": "*/*",
        "browserIP": "XX.XX.XX.XX",
        "browserJavaEnabled": true,
        "browserJavascriptEnabled": true,
        "browserLanguage": "en-IN",
        "browserColorDepth": "24",
        "browserScreenHeight": "746",
        "browserScreenWidth": "412",
        "browserTZ": "-240",
        "browserUserAgent": "TestMerchant/26.5.0.100 (Android/13/SM-S908E)",
        "challengeWindowSize": "01",
        "p_messageVersion": "2.1.0"
    }
```

3.pRqFrq – Final Request

Request URL

The URL for pRqFrq should be taken from the response of pArq API. The response contains the URL in the key **"authenticationUrl"**

```
{
    "messageType": "pRqFrq",
    "messageVersion": "2.1.0",
    "threeDSSTransID": "<Need to be taken from pVrq API response field  
threeDSSTransID>",
    "acsTransID": "<Need to be taken from pArq API response field acsTransID>",
    "dsTransID": "<Need to be taken from pArq API response field dsTransID>",
    "merchantTransID":
        "c2e9e456037f033e5cc3d7b6e556189ae0632c0c653439014bf35dac9428d1c5c37  
6623fff98e71e7df19f8c56f18926|5c4e2c116b110513acab33ab1c4ca6d48114677b",
    "signatureHashIdentifier": "null",
    "acquirerID": "8642",
    "acsAuthResponse": "<Value given by ACS after OTP page redirection>",
    "p_messageVersion": "2.1.0"
}
```

Requesting format

All the above said APIs should be initiated in the below mentioned format. The payload should be encrypted using the method mentioned in the heading **Encryption details**

Request Header

Parameter	M/O/C	Sample
x-api-key	M	Actual api-key will be provided from Wibmo during Onboarding Ex: 849ca23e-b115-11ed-a376-005056b59d84
pgInstanceId	M	Acquirer Id provided by Wibmo Ex: 8642

Request Body

Parameter	M/O/C	Sample
signedEncRequestPayload	M	Request Payload Signed with acquirer PrivateKey, encrypted with AES256 KEY
requestSymmetricEncKey	M	Encrypted AES256 KEY with Wibmo's Public Key
iv	M	Initialization Vector (IV) value
pgInstanceId	M	Acquirer Id provided by Wibmo – Example 8645
merchantId	M	Same as pgInstanceId
var1	O	
var2	O	
var3	O	

Testing Data

URL: <https://3ds2-api-3dsserver-intg.pc.enstage-sas.com/3dsserverapi/v5/pVrq/8642/54c8fefe-e694-3569-7864-d4329ce61111>

Acquirer Id : 8642

AcquirerBIN: 000999

AcquirerMerchantId: 748161771735243

Test Cards:

1.0

5413067624924139xxx

4003536292095165xxx

2.0

5497773667028089xxx CHALLENGE

5129670869436522xxx FRICTIONLESS

4568565538864065xxx CHALLENGE

4213233747316505xxx FRICTIONLESS