



Jazz Subscription APIs Interface/Integration Specifications

By: Jazz Technology -Digital Solutions

1 Contents

1	Contents.....	2
2	Document Control	4
3	Intended Audience.....	5
4	Introduction	6
5	Authentication APIs.....	7
5.1.1	Access Token API.....	7
5.1.2	Token Generation cURL Sample	7
5.1.3	Renew Token cURL Sample	7
6	Profile Information APIs.....	9
6.1.1	Subscription Information API	9
6.1.2	Subscription Information cURL Sample:.....	10
6.1.3	Request Parameters:	11
6.1.4	Response Parameters:.....	11
6.1.5	Bill Details API.....	11
6.1.6	Bill Details Information cURL Sample	12
6.1.7	Request Parameters:	12
6.1.8	Response Parameters:.....	12
7	Subscription APIs	13
7.1	Subscription API	13
7.1.1	Subscription cURL Sample	14
7.1.2	Request Parameters:	15
7.1.3	Response Parameters:.....	15
7.1.4	Error Code Descriptions	15
7.2	Un-Subscription APIs	16
7.2.1	Unsubscribe API	16
7.2.2	Un-Subscription cURL Sample	17
7.2.3	Request Parameters	18
7.2.4	Response Parameters.....	18
7.2.5	Error Code Descriptions	19
7.3	Subscription Application Error Codes	20
7.4	Partner URL Callback URL.....	22
7.4.1	Call Back Sample Request.....	23
7.4.2	Call Back Sample Response	23
7.4.3	Call Back Error Code Details	23
8	Customer Consent API	24
8.1	Generate OTP API	24
8.1.1	Generate OTP cURL Sample	25
8.1.2	Request Parameters	26
8.1.3	Response Parameters.....	27
8.2	Verify OTP API	28
8.2.1	Verify OTP cURL Sample	29

8.2.2	Request Parameters	30
8.2.3	Response Parameters.....	31
9	<i>APIs Policies</i>	32
9.1	Rate Limit Policy	32
9.2	APIs Upgrade Policy	32
10	<i>System Support</i>	33

2 Document Control

#	Version #	Change Details	Date	By
1	V 1.0	Initial draft	05/09/2023	Jazz Technology Digital Solutions
2	V 1.1	Release 1	13/09/2023	Jazz Technology Digital Solutions
3	V 1.2	URL / Call Back	27/09/2023	Jazz Technology Digital Solutions
4	V 1.3	URL / Call Back Details	28/09/2023	Jazz Technology Digital Solutions
5	V 1.4	Subscription Info API	09/02/2024	Jazz Technology Digital Solutions

3 Intended Audience

Following is the intended audience of this document.

- 1. JAZZ Partners (VAS) / Integrator**
- 2. JAZZ Commercial Teams**
- 3. JAZZ Information Security and Governance**
- 4. JAZZ Marketing**
- 5. JAZZ Product Development**
- 6. JAZZ Technology-Digital Solutions**

4 Introduction

The purpose of this document is to provide JAZZ APIs integration guidelines for business partners to integrate with jazz APIs platform.

The document covers request, response formats of APIs that are required for integration.

Section 5 specifies the authentication API to generate oAuth based access token.

Section 6 defines Subscription Information and Bill Details of a given postpaid subscription.

Section 7 defines Bundle Subscription APIs details.

Section 8 keeps details of Customer Consent APIs.

Section 9 defines the APIs Policies.

Section 10 covers System Support.

5 Authentication APIs

5.1.1 Access Token API

This section provides details of Authentication APIs.

API	Access Token	
HTTPS Method	GET	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/token	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/token	Public / Internet
API Release Date	Jan 1, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/token/	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/token/apimv2.6.0	VPN 10.50.81.99
Address (URL) Alternate-2	https://apim.jazz.com.pk/token/apimv2.6.0	Public / Internet
API Release Date	Jan 1, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/auth/v1/token/	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/auth/v1/token	Public / Internet
API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details: Increase in Token length based on new client secret.		

5.1.2 Token Generation cURL Sample

```
curl -k -d 'grant_type=client_credentials' -H 'Authorization:Basic Base64encoding (Client ID: Client Secret)'
```

Parameter Details: -

grant type: client-credential

Authorization: Basic Base64encoding (Client ID: Client Secret)

Client ID and Client Secret ID details are encoded with Base 64 encoding.64B

5.1.3 Renew Token cURL Sample

```
curl -k -d "grant_type=refresh_token&refresh_token=<retoken>" -H "Authorization: Basic SVpzSWk2SERiQjVIOFZLZFpBbIVpX2ZaM2Y4YTpHbTBiSjZvV1Y4ZkM1T1FMTGxDNmpzbEFDVzh" -H "Content-Type: application/x-www-form-urlencoded" https://apimtest.jazz.com.pk/token
```

Request Parameters Description:

Token API URL - <https://apimtest.jazz.com.pk/token>

payload - grant_type=refresh_token&refresh_token=<retoken>. Replace the <retoken> value with the refresh token that you have.

headers - Authorization :Basic <base64 encoded string of consumer-key:consumer-secret>, Content-Type: application/x-www-form-urlencoded. Replace <base64-encoded string-of-consumer-key:consumer-secret> as appropriate.

Token Expiry:

Access Token expiry time is 1 hour. After 1 hour, Integrator needs to generate a new token.

6 Profile Information APIs

6.1.1 Subscription Information API

This API provides subscriber profile details.

API	Subscription Information	
HTTPS Method	GET	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/ecare/subscription/Info/v1/{msisdn}	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/ecare/subscription/Info/v1/{msisdn}	Public / Internet
API Release Date	Jan 1, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/ecare/subscription/Info/v1/{msisdn}	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/ecare/subscription/Info/v1/{msisdn}	Public / Internet
API Release Date	Jan 1, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/ecare/subscription/Info/v1/{msisdn}	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/ecare/subscription/Info/v1/{msisdn}	Public / Internet
API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details: Token length based on new client secret.		

6.1.2 Subscription Information cURL Sample:

`curl -XGET 'https://apimtest.jazz.com.pk/ecare/subscription/Info/v1/92xxxxxxxxxx' -H 'Authorization: Bearer 4089c9ad-xxxx-xxxx-9e15-9c4d9f487d59'`

On-net Subscription Response Sample:

Jazz User:

```
{
  "operator": "jazz",
  "type": "postpaid",
  "code": "Jazz"
}
```

HTTP Code 200 is returned that indicates a successful request, with the response code "Jazz" signifying the provided MSISDN belongs to a Jazz network.

ROX user with active ROX bundle:

```
{
  "operator": "jazz",
  "type": "prepaid",
  "code": "ROX"
}
```

HTTP Code 200 is returned that indicates a successful request, with the response code "ROX" indicating the provided MSISDN belongs to a ROX user with an active ROX bundle.

ROX user with no active ROX bundle:

```
{
  "operator": "jazz",
  "type": "prepaid",
  "code": "ROX-NA"
}
```

HTTP Code 200 is returned that indicates a successful request, with the response code "ROX" indicating the provided MSISDN belongs to a ROX user with no active ROX bundles.

Off-net Subscription Response Sample:

```
{
  "operator": "unknown",
  "type": "unknown",
  "code": "unknown"
}
```

HTTP Code 404 is returned that indicates the requested resource was not found, with the response code "unknown" indicating the provided MSISDN doesn't belong to the Jazz network.

6.1.3 Request Parameters:

Parameter	Type	Data Type	Mandatory	Description
Authorization	Header	String	Yes	Access token to be provided
Content-Type	Header	String	Yes	Application/Json
Msisdn	Route	Integer	Yes	Subscriber MSISDN with 92 formats

6.1.4 Response Parameters:

Parameter	Type	Data Type	Mandatory	Descriptions
operator	Body	String	Yes	Operator Name
type	Body	String	Yes	Subscription Pricing
Code	Body	String	Yes	Subscription Classification

6.1.5 Bill Details API

This API provides postpaid subscriber Bill details.

API	Bill Details	
HTTPS Method	GET	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/ecare/subscription/billdetails/v1/{msisdn}/jazz/postpaid	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/ecare/subscription/billdetails/v1/{msisdn}/jazz/postpaid	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/ecare/subscription/billdetails/v1/{msisdn}/jazz/postpaid	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/ecare/subscription/billdetails/v1/{msisdn}/jazz/postpaid	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/ecare/subscription/billdetails/v1/{msisdn}/jazz/postpaid	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/ecare/subscription/billdetails/v1/{msisdn}/jazz/postpaid	Public / Internet

API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details: Token length based on new client secret		

6.1.6 Bill Details Information cURL Sample

curl -XGET 'https://apimtest.jazz.com.pk/ecare/subscription/billdetails/v1/923xxxxxxxxx/jazz/postpaid' -H 'Authorization: Bearer 4089c9ad-ab57-xxxx-xxxx-9c4d9f487d59'

Response (Available Scenario):

```
{
  "Unpaid_Bill": "-211",
  "Due_Date": "2023-08-31 00:00:00"
}
```

Response (Not Available Scenario):

```
{
  "error": {
    "errorCode": "204",
    "description": "Record Not Found",
    "message": "Not Found",
    "transaction": {
      "transactionId": "cd60bdb6-a1a3-4623-9f8b-e1bd3d6c1118"
    }
  }
}
```

6.1.7 Request Parameters:

Parameter	Type	Data Type	Mandatory	Description
Authorization	Header	String	Yes	Access token to be provided here
Content-Type	Header	String	Yes	Application/json
Msisdn	Route	Integer	Yes	Subscriber MSISDN with 92 format

6.1.8 Response Parameters:

Parameter	Type	Data Type	Mandatory
Unpaid_Bill	Body	String	Yes
Due_Date	Body	String	Yes

7 Subscription APIs

7.1 Subscription API

This API subscribes an eligible product on a given MSISDN. On Account/Credential Creation, partner will share its call back URL this API ([details in section 7.4](#)).

API	Subscription	
HTTPS Method	POST	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/ecare/subscription/v1/subscribe	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/ecare/subscription/v1/subscribe	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/ecare/subscription/v1/subscribe	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/token/ecare/subscription/v1/subscribe	VPN 10.50.81.99
Address (URL) Alternate-2	https://apim.jazz.com.pk/ecare/subscription/v1/subscribe	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/ecare/subscription/v1/subscribe	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/ecare/subscription/v1/subscribe	Public / Internet
API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details: Token length based on new client secret		

7.1.1 Subscription cURL Sample

```
curl --location 'https://apimtest.jazz.com.pk:8282/ecare/subscription/v1/subscribe' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer 648378df-69c8-354b-9ac8-751120647cf9' \
--header 'Cookie:
f5avraaaaaaaaaaaaaaaaa_session_=NDCJINJLCOHBDHDOMAOCIFBKJJCNMHMHKOLCHAAFNJAKLCCDO
OJJCIOHFKFLPFCCHCPDMGFOAEJDDGPKIIPANIJGFHLIPHJHBBBIBBOOLOIGAKNMPALBIJINDNJDDLCC' \
--data '{
  "msisdn": "923225940270 ",
  "transaction_id": "8081753520671802",
  "data": {
    "pname": "ProductCode",
    "pvalue": "PRODUCT_CODE",
    "pname_1": "CHANNEL_NAME",
    "value_1": "Web"
  }
}'
```

Response:

```
{
  "success": {
    "status": "OK",
    "transactionId": "8081753520671802",
    "responseCode": "200",
    "downstreamCode": "2010",
    "description": "Submitted."
  }
}
```

7.1.2 Request Parameters:

Parameter	Type	Data Type	Mandatory	Description
Authorization	Header	String	Yes	Access token to be provided here
Content-Type	Header	String	Yes	Application/json
Msisdn	Body	Integer	Yes	Subscriber MSISDN with 92 format
Pname	Body	String	Yes	Product Code
Pvalue	Body	String	Yes	Value of product code
Pname_1	Body	String	Yes	Channel Name
Value_1	Body	String	Yes	Name of channel; e.g web, sms etc
transaction_id	Body	String	Yes	E-g 1234567890 (max length: 50). Only numeric value should be used

7.1.3 Response Parameters:

Parameter	Type	Data Type	Mandatory
Status	Body	String	Yes
transactionId	Body	String	Yes
responseCode	Body	Integer	Yes
downstreamCode	Body	Integer	Yes
Description	Body	String	Yes

7.1.4 Error Code Descriptions

HTTP Code	Status	TransactionId	AppCode	Downstream Code	Description
Success	200 202	OK	xxxxxxx	00	Submitted
Failure	200	KO	xxxxxxx	400	Details in section 7.3
	200	KO	xxxssxx	400	Timeout

7.2 Un-Subscription APIs

7.2.1 Unsubscribe API

This API un-subscribes a product from a given subscription. On Account/Credential Creation, partner will share its call back URL this API ([details in section 7.4](#)).

API	Un-Subscription	
HTTPS Method	POST	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/ecare/subscription/v1/unsubscribe	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/ecare/subscription/v1/unsubscribe	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/ecare/subscription/v1/subscribe	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/token/ecare/subscription/v1/unsubscribe	VPN 10.50.81.99
Address (URL) Alternate-2	https://apim.jazz.com.pk/ecare/subscription/v1/unsubscribe	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/ecare/subscription/v1/unsubscribe	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/ecare/subscription/v1/unsubscribe	Public / Internet
API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details: Token length based on new client secret		

7.2.2 Un-Subscription cURL Sample

```
curl --location 'https://apimtest.jazz.com.pk:8282/ecare/subscription/v1/unsubscribe' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: Bearer 648378df-69c8-354b-9ac8-751120647cf9' \  
--header 'Cookie:  
f5avraaaaaaaaaaaaaaaa_session_=NDCJINJLCOHBDHDOMAOCIFBKJJCNMHMHKOLCHAAFNJAKLCCDO  
OJJCIOHFKFLPFCCHCPDMGFOAEJDDGPKIIPANIJGFHLIPHJHBBBIBBOOLOIGAKNMPALBIJINDNJDDLCC' \  
--data '{  
  "msisdn": "923225940270",  
  "transaction_id": "8081753520671802",  
  "data": {  
    "pname": "ProductCode",  
    "pvalue": "PRODUCT_CODE",  
    "pname_1": "CHANNEL_NAME",  
    "value_1": "FB"  
  }  
}'
```

Response:

```
{  
  "success": {  
    "status": "OK",  
    "transactionId": "8081753520671802",  
    "responseCode": "200",  
    "downstreamCode": "00",  
    "description": "Submitted"  
  }  
}
```

7.2.3 Request Parameters

Parameter	Type	Data Type	Mandatory	Description
Authorization	Header	String	Yes	Access token to be provided here
Content-Type	Header	String	Yes	Application/Json
Msisdn	Body	Integer	Yes	Subscriber MSISDN with 92 formats
Pname	Body	String	Yes	Product Code
Pname_1	Body	String	Yes	Channel Name
Pvalue	Body	String	Yes	Name of channel e.g., web, SMS etc.
Value_1	Body	String	Yes	Channel value
transaction_id	Body	String	Yes	E-g 1234567890 (max length: 50), Only numeric value should be used

7.2.4 Response Parameters

Parameter	Type	Data Type	Mandatory
Status	Body	String	Yes
transactionid	Body	String	Yes
responseCode	Body	Integer	Yes
downstreamCode	Body	Integer	Yes
Description	Body	String	Yes

7.2.5 Error Code Descriptions

HTTP code		Status	TransactionId	AppCode	Downstream Code	Description
Success	200 202	OK	xxxxxx	00	00	Submitted
Failure	200	KO	xxxxxx	400	Details in section 7.3	
	200	KO	xxxxxx	400	400	Timeout from downstream

7.3 Subscription Application Error Codes

400 = Technical Error

1000=SUBSCRIPTION CANNOT HAVE PACKAGE

1010=SUBSCRIPTION BLOCKING CONDITION

1020=SUBSCRIPTIONTYPE CHANGE NOT ALLOWED

1021=DEBT DEPOSIT CONDITION

1040=SUBSCRIPTIONTYPE ALREADY ACTIVE

1050=SUBSCRIPTIONTYPE NOT FOUND

1060=BALANCE INSUFFICIENT

1061=INVALID BILLING ACCOUNT

1062=MICROCREDIT INELIGIBLE

1070=SUBSCRIPTION NOT ACTIVE

1080=BILLING ACCOUNT UNAVAILABLE

1090=ORIGINATOR CONVERSATION ID

2000=PACKAGE NOT FOUND

2010=PACKAGE REACTIVATION TIME

2020=PACKAGES MISSING

2030=PACKAGE CANNOT BE REMOVED

2040=PACKAGE NOT ACTIVE

2050=PACKAGE ALREADY DEACTIVATED

2060=PACKAGES NOT EDITABLE

2061=PACKAGE NO RECURRENCE START DATE

2070=PACKAGE ACTIVE NOT REACTIVABLE

2080=PACKAGE CHANGE NOT ELIGIBLE

2090=PACKAGE OFFER NOT VALID

2100=PACKAGE NOT SUSPENDABLE

2200=PACKAGE NOT SUSPENDED

2301=PACKAGE NOT TOGGLEABLE

2032=PACKAGE NOT BOOSTABLE

3000=NETWORK SERVICE ACTIVE

3010=NETWORK SERVICE DEACTIVATED

4000=ICC NOT ON SUBSCRIPTION

4010=ICC CANNOT RESERVE CURRENT

4020=ICC INVALID

4030=ICC IN USE

4040=ICC NOT FOUND

4050=ICC BLOCKING CONDITION

4060=ICC NOT TERMINATED

4070=ICC NOT RESERVED

5000=MSISDN RESERVED

5010=MSISDN DUPLICATE RESERVE

5020=MSISDN NOT FOUND

5030=MSISDN INVALID

5040=MSISDN BLOCKING CONDITION

5050=MSISDN NOT ON SUBSCRIPTION

5060=MSISDN LOW BALANCE

5070=MSISDN DURATION LIMIT

5090=RESERVATION FAILED

5100=PSTN RESERVED

5120=PSTN NOT FOUND

5192=PSTN IN USE

5193=PSTN IMPROPER RESERVE TIME

6010=BARRINGLEVEL NOT FOUND

6020=BARRING NOT FOUND

6030=BARRING BLOCKING CONDITION

6040=BARRING NOT ACTIVE

6050=BARRINGLEVEL ACTIVE

6060=BARRINGLEVEL DEACTIVATED

7000=CALL FORWARD ACTIVE

7010=CALL FORWARD DEACTIVATED

7020=CHANNEL NOT ELIGIBLE

7030=CUSTOMER NOT FOUND

7040=DISOWN BLOCKING CONDITION

7050=DUPLICATE CUSTOMER

7060=OWNER BRAND

7070=REOWN BLOCKING CONDITION

7080=INVALID CUSTOMER

7090=OWNER PAYER USER BLOCKING CONDITION

8000=REMOTE SIM ICC SAME

8010=REMOTE SIM ICC FORMAT

8000=REMOTE SIM ICC SAME

8010=REMOTE SIM ICC FORMAT

8020=REMOTE SIM ICC INVALID

8030=REMOTE SIM ICC NOT FOUND

8040=REMOTE SIM OLD SUB NOT FOUND

8050=REMOTE SIM NEW SUB NOT FOUND

8060=REMOTE SIM OLD SUB NOT ACTIVE

8070=REMOTE SIM NEW SUB NOT ACTIVE

8080=REMOTE SIM OLD SUB NOT PREPAID

8090=REMOTE SIM NEW SUB NOT PREPAID

8100=REMOTE SIM PORTOUT ONGOING

8110=REMOTE SIM NOT STARTERKIT

8120=REMOTE SIM TOPUP ADDED

8130=REMOTE SIM BARRING

8140=REMOTE SIM OLDER STARTERKIT

8150=REMOTE SIM MSISDNCHANGE ONGOING

8160=REMOTE SIM SIMCHANGE ONGOING

8170=REMOTE SIM STARTERKIT BALANCE NOT
ZERO

8180=REMOTE SIM OTHER ERROR

8190=REMOTE SIM CHANNEL NOT USSD

9001=INVALID CREDIT LIMIT PROGRAM CODE

9010=BALANCE TRANSFER PROHIBITED

10000=VOLUME TRANSFER INVALID REQUEST

11000=GIFTING INVALID REQUEST

7.4 Partner URL Callback URL

For Subscription and Un-Subscription APIs, partner will share and implement its call back URL with following specifications.

This section provides detail about provisioning of VAS service at Jazz end, error codes mapping and request/response formats.

Callback is generated from JAZZ platform towards 3PP platform for which a URL needs to be configured at JAZZ.

Following mentioned details should be filled/provided by 3PP integrator:

VAS configuration parameter Name	VAS configuration parameter value [Staging]	VAS configuration parameter value [PROD]
Vendor Name		
Service Name		
Pool Size		
Idle Timeout (minutes)		
Blocking Timeout (ms)		
Path		
Port		
Connection Timeout (ms)		
Host		
Secure (Yes/No)		
Read Timeout (ms)		
Content encoding (deflate, gzip or none)		
The URL used to test the connectivity	-	-
Username		
Password		

VAS Vendor & Service Name are case sensitive. Partner will submit above configuration.

For EDA, Product Code must be optional in deactivation call. Partner will not use port 8080.

7.4.1 Call Back Sample Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:vas="http://schemas.ericsson.com/vas/">
<soapenv:Header>
<vas:username>vas_service</vas:username>
<vas:password>***</vas:password>
</soapenv:Header>
<soapenv:Body>
<vas:vasRequest>
<vas:msisdn>923*****</vas:msisdn>
<vas:operation>deactivate</vas:operation>
<vas:imsi>410*****0759</vas:imsi>
<vas:originalRequestId>*****</vas:originalRequestId>
<vas:provisioningStatus>success</vas:provisioningStatus>
<vas:subscriptionType>prepaid</vas:subscriptionType>
<vas:productCode>PRODUCTCODE</vas:productCode>
</vas:vasRequest>
</soapenv:Body>
</soapenv:Envelope>
```

7.4.2 Call Back Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"><SOAP-
ENV:Header/><SOAP-ENV:Body><ns2:vasResponse
xmlns:ns2="http://schemas.ericsson.com/vas/"><ns2:responseCode>0</ns2:responseCode><ns2:resp
onseDescription>success</ns2:responseDescription></ns2:vasResponse></SOAP-ENV:Body></SOAP-
ENV:Envelope>
```

7.4.3 Call Back Error Code Details

Following error codes need to be mapped at 3PP platform for provisioning requests:

Operation	Error Code	Error Messages
Deactivate	0	success
Activate	101	vasNode can not be null or empty
Deactivate	102	Invalid username/password
All	103	Msisdn is already deactivated
All	104	Msisdn is already activated
All	201	Timeout
All	203	productCode not found

8 Customer Consent API

Following APIs are used by JAZZ partners to verify customer's consent for a subscription.

8.1 Generate OTP API

Generate OTP API sends OTP (One time password) via SMS to a given MSISDN.

Its response includes OTP 1 i.e. is sent to customer via SMS and OTP 2 (optional API parameter) in response of this API. OTP 2 value can be set blank /as empty string as required by JAZZ. Both OTP 1 and OPT 2 have different values.

The partner can use OTP 1 in Customers 's SMS to auto fill in the OTP. For automatically reading SMS through mobile applications, key based id is generated in SMS text.

Customers on web browsers should manually type OTP after reading from SMS.

API	Generate OTP	
HTTPS Method	POST	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/auth/auth/sendOTP	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/auth/sendOTP	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/auth/sendOTP	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/ auth/sendOTP	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/ auth/sendOTP	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/ auth/sendOTP	Public / Internet
API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details: Token length based on new client secret		

8.1.1 Generate OTP cURL Sample

```
curl -XPOST -H 'Authorization: Bearer 90ab7a8f-547a-3d14-8aaa-0611d0e4b2b3' -H 'Channel: PMMD' -H 'ApplicationName: PMD' -H 'Content-type: application/json' -d '{"Identifier":"923xxxxxxxxx", "XXHASHKEYXX":"","param2":"Android","param3":"AppName"}' https://apimtest.jazz.com.pk/auth/sendOTP'
```

Request:

```
{"Identifier":"923008429905", "param1":"XXHASHKEYXX", "param2":"Android", "param3":"AppName"}
```

Success Response Sample:

```
{
  "resultCode": "00",
  "msg": "Success",
  "execTime": "231",
  "data": {
    "msg": "9386"
  }
}
```

Error Response Sample

```
{
  "status": "KO",
  "errorCode": "-1",
  "errorDescription": "OTHER NETWORK",
  "transactionId": "07c85506-db41-4949-87df-5356d1405104"
}
```

8.1.2 Request Parameters

Input Parameter	Parameter Type	Sample Value	Mandatory	Description
Identifier	Body	92321XXXXXXXXXX	Y	X represent a digit from 1 to 9
param1	Body	Hash key (xxxxxxxxxx)	N	Key for auto Fetch OTP form SMS
param2	Body	Android/IOS/Web/etc	*N	Device OS
param3	Body	AppName	*N	Mobile App Name
Channel	Header	PartnerAppName	*N	**Partner APP Identifier
Authorization	Header	Bearer xxxxxxxxxxxxxx	Y	Bearer Token

* Parameters are mandatory for partners to be provided in API.

**Channel name must uniquely define partner app and its value should be used as approved by JAZZ VAS Marketing Team.

8.1.3 Response Parameters

Input Parameter	Parameter Type	Sample Value	Description
resultCode	Body	00	Success
Msg	Body	Success	API Result
execTime	Body	21	Time taken on execution of API
Data:{msg}	Body	"" Or xxxx	Msg showing OTP 2 Optional (parameter) Default value is empty string.

8.2 Verify OTP API

Verify OTP API verifies the provided OTP (received by customer on SMS) and return the verification result. Partner can use the OTP 2 only in exceptional case after having customer consent and with a valid technical reason. Partner will maintain consent details for OTP 2 for customers queries.

Partners must maintain the complete timestamp logs of each APIs call request / response for reconciliation with JAZZ.

API	Verify OTP	
HTTPS Method	POST	
Test Environment		
Address (URL)	https://apimtest.jazz.com.pk/auth/auth/verifyOTP	VPN 10.50.81.79
Address (URL) Alternate-1	https://apimtest.jazz.com.pk:8282/auth/verifyOTP	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	Not Announced	
Production Environment		
Address (URL)	https://apimprd.jazz.com.pk/auth/verifyOTP	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/ auth/verifyOTP	Public / Internet
API Release Date	Jan 12, 2023	
API Retirement Date	December 12, 2023	
Production Environment (Next Release)		
Address (URL)	https://apimprd.jazz.com.pk/xcn/ auth/verifyOTP	VPN 10.50.171.110
Address (URL) Alternate-1	https://apim.jazz.com.pk/xcn/ auth/verifyOTP	Public / Internet
API Release Date	Jan 1, 2024	
API Retirement Date	Not Announced	
Change Details:Token length based on new client secret		

8.2.1 Verify OTP cURL Sample

```
curl --location 'https://apimtest.jazz.com.pk/auth/verifyOTP' \  
--header 'Authorization: Bearer d35837a1-2539-300d-a915-12faabc0807a' \  
--header 'channel: Jazz Cricket' \  
--header 'Content-Type: application/json' \  
--header 'Cookie: f5avr0547363397bbbbbbbbbbbbbb=IHMAKLMAKHADHCDKDLANBFMOPGNNFKGMGOFO  
BIJJOBCBDOHJMODBJKBCCDOFAEDOPOMGOGPPIMAPODJFIOILCIKHMIPBCFOBBPDCHNMBPGEONNCGJPLDB  
NFCLFIAIGNC' \  
--data '{  
  "Identifier": "92300xxxxxx",  
  "OTP": "5927",  
  "param1": "XXHASHKEYXX",  
  "param2": "Android",  
  "param3": "AppName1"  
}'
```

Response:

```
{  
  "Identifier": "92300XXXXXX",  
  "OTP": "5927",  
  "param1": "XXHASHKEYXX",  
  "param2": "Android",  
  "param3": "AppName1"  
}
```

Success Response:

```
{  
  "resultCode": "00",  
  "msg": "Success",  
  "execTime": "5"  
}
```

Failure Response:

```
{  
  "resultCode": "004",  
  "msg": "Pin Expired",  
  "execTime": "3"  
}
```

8.2.2 Request Parameters

Input Parameter	Parameter Type	Sample Value	Mandatory	Description
Identifier	Body	92321XXXXXXXXX	Y	X represent a digit from 1 to 9
OTP	Body	xxxx	Y	X represent a digit from 1 to 4
param1	Body	Hash key	N	Key for auto Fetch OTP
param2	Body	Android/IOS/Web/etc	N	Device OS
param3	Body	AppName	N	Other Detail
Channel	Header	PartnerAppName	Y	Same as used in Generate OTP API .
Authorization	Header	Bearer xxxxxxxxxxxxxx	Y	Access Token

8.2.3 Response Parameters

Input Parameter	Parameter Type	Response	Description
resultCode	Body	00	Success
Msg	Body	Success	Response message
execTime	Body	7	Execution time

9 APIs Policies

9.1 Rate Limit Policy

TPS Default: 4

Quota Default: 240 TPM (Transactions Per Minutes)

Partner can increase the mentioned default limits by requiring to JAZZ Commercial Team. Partner to ensure TPS limits since additional traffic will be rejected.

9.2 APIs Upgrade Policy

Partner must establish connectivity via VPN or Internet (under approval by Jazz). Partner can require API client key and secret key from Jazz Team after connectivity testing.

New versions of APIs will be published based on new features and security enhancements.

Partner will adapt API changes recommended by JAZZ Information Security.

For SSL pinning, partner needs to ensure that digital certificate is updated with respect to certificate expiry date.

UAT is mandatory for business partner to migrate from existing API to new API releases. After UAT in test environment, partner can proceed to production environment on securing go ahead from Jazz Commercial Planning Team.

10 System Support

All support related issues regarding APIs can be raised to JAZZ Marketing Operations Team.