New Billing Project

ICP Enquiry API Specifications
for MyAccount

Revision History

Revision	Date	Description	Author
1.0	Apr 15, 2025	List of ICP APIs for MyAccount	Claudia Fung

CONTENTS

Objectives

This document is to provide the list of ICP API Enquiry to my Account for the new billing project

ICP Enquiry API Specifications

1. Customer Profile for MyAccount

Purpose

To get customer profile for my Account

Interface Details

Production Endpoints: TBC

System	Endpoint (UAT)
UAT	https://crm-uat.smartone.com/api/myAccount
TYK	https://tykapi-u.hksmartone.com/icp/myAccount

API: /custProfile

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmciOiI2NGY2Y2I1ZmFiYzRhYWI4MGNlZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjJiM2ZiMWUyNGGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
custNum	String	Customer Number	01234567	Mandatory
acctNum	String	Account Number		Mandatory
subrNum	String	Subscriber Number		Mandatory
getIDBR	String	Return ownerIDBR and usrIDBR if getIDBR = Y	Y – return IDBR N or null – not return IDBR	
mask	String	Return masked or encrypted sensitive data	Y – masked N or null - encrypted	

Sample Request

```
{
        "custNum": "51234567",
        "accountNum": "51234567.00001",
        "subrNum": "91234567",
        "getIDBR": "Y",
        "mask": "Y"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Return Result	0 – Success -1 – Failure	
resultMsg	String	Return Error Code		
lineCategory	String	Line category	M / I / H / F / ….	
isWflBundle	String	Is WFL Bundle	Y / N	
isWflFbbOnly	String	Is WFL FBB Only	Y / N	
ownerLang	String	Bill email language	C / E / ….	
billEmail	String	Bill Email (owner level)		Returned mask or encrypted value
contactEmail	String	Contact email (user level)		Returned mask or encrypted value
custType	String	Customer Type	PERS / BUSI …	
ownerIDBR	String	Owner IDBR (owner level)		Returned mask or encrypted value
ownerBirth	String	Owner date of Birth (owner level)	Format: YYYY-MM-DD	Returned mask or encrypted value
ownerLName	String	Customer last name (owner level)		Returned mask or encrypted value
ownerFName	String	Customer first name (owner level)		Returned mask or encrypted value
ownerCustTitle	String	Customer title (owner level)		Returned mask or encrypted value
usrHKID	String	User HKID (user level)		Returned mask or encrypted value
usrBirth	String	User date of Birth (user level)	Format: YYYY-MM-DD	Returned mask or encrypted value
usrLName	String	Customer last name (user level)		Returned mask or encrypted value
usrFName	String	Customer last name (user level)		Returned mask or encrypted value
usrFCustTitle	String	Customer title (user level)		Returned mask or encrypted value
usrContactNum	String	Daytime Contact number (user level)		
usrContactNum2	String	Evening contact number (user level)		
sebSubrNum	String	Subscriber number belong to SEB		
userName	String	Username		
tagOnService	String	Tag On Service		
parentSubrNum	String	Parent subscriber number		
isParent	String	Is parent subscriber	Y / N / NULL	

Success response

```
{
        "resultCode": "0",
        "resultMsg": "SUCCESS",
        "custNum": "51234567",
        "subrNum": "91234567",
        "acctNum": "51234567.00001",
        "lineCategory": "M",
        "isWflBundle": "N",
        "isWflFbbOnly": "N",
        "ownerLang": "E",
        "billEmail": "abc@gmail.com",  // masked or encrypted
        "contactEmail": "abc@gmail.com",  // masked or encrypted
        "custType": "PERS",
        "ownerIDBR": "E101101(5)", // masked or encrypted
        "ownerBirth": "1999-01-15", // masked or encrypted
        "ownerLName": "Chan", // masked or encrypted
        "ownerLName": "Chan", // masked or encrypted
        "ownerFName": "David", // masked or encrypted
        "ownerCustTitle": "Mr",
        "usrIDBR": "P101101(3)", // masked or encrypted
        "usrBirth": "1999-01-15", // masked or encrypted
        "usrLName": "Chan", // masked or encrypted
        "usrFName": "David", // masked or encrypted
        "usrCustTitle": "Mr",
        "userContactNum": "90121212",
        "userContactNum2": "31280101",
        "sebSubrNum": "91234567",
        "userName": "",
        "tagOnService": "",
        "parentSubrNum": "",
        "isParent": ""
}
```

Fail response

```
{
        "resultCode": "-1",
        "resultMsg": "Missing input customer, account or subscriber number for enquiry"
}


{
        "resultCode": "-2",
        "resultMsg": "No such record of customer, account and subscriber number in ICP system"
}
```

2. Tag On Details for MyAccount

Purpose

To get tag-on details for my Account

Interface Details

Production Endpoints: TBC

System	Endpoint (UAT)
UAT	https://crm-uat.smartone.com/api/myAccount
TYK	https://tykapi-u.hksmartone.com/icp/myAccount

API: /tagOnInfo

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmciOiI2NGY2Y2I1ZmFiYzRhYWI4MGNlZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjM2ZiMWUyNGGJlMDAyN2 FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
custNum	String	Customer Number	01234567	Mandatory
tagOnService	String	Tag On code for search	FBB_HOMETEL	Optional

Sample Request

```
{
        "custNum": "01234567",
        "tagOnService": "FBB_HOMETEL"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Return Result	0 – Success -1 – Failure	
resultMsg	String	Return Error Code		
tagOnList	Json Array	Tag-on service list		
tagOnList -> tagOnCode	String	Tag-on service	ADDON_VOICE	
tagOnList -> parentSubrNum	String	Parent subscriber number		sw_om_gnv_tag_on_map.mobile_msisdn
tagOnList -> parentAcctNum	String	Parent account number		
tagOnList -> childLlist	Json Array	List of child number under this tagon Service		
tagOnList -> childList -> childSubrNum	String	Child subscriber number		sw_om_gnv_tag_on_map.tablet_msisdn
tagOnList -> childList -> childAcctNum	String	Child account number		

Success response

```
{
        "resultCode": "0",
        "resultMsg": "SUCCESS",
        "tagOnList":  [{
                "tagOnCode": "FBB_HOMETEL",
                "parentSubrNum": "91234567",
                "parentAcctNum": "51234567.00001",
                "childList": [{
                        "childSubrNum": "61234567",
                        "childAcctNum": "51234567.00002",
                        },{
                        "childSubrNum": "61234568",
                        "childAcctNum": "51234567.00003"
                        }]
        }]
}
```

Fail response

```
{
        "resultCode": "-1",
        "resultMsg": "Missing input customer number"
}
{
        "resultCode": "-2",
        "resultMsg": "No such record in ICP system"
}
```

3. Customer Communication Channel Info

Purpose

Get customer communication channel Information for MyAccount

Interface Details

Production Endpoints: TBC

System	Endpoint (UAT)
UAT	https://crm-uat.smartone.com/api/myAccount
TYK	https://tykapi-u.hksmartone.com/icp/myAccount

API: /commChannel

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmciOiI2NGY2Y2I1ZmFiYzRhYWI4MGNlZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFiM2ZiMWWUyNGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
requesterId	String	API Requester Identity	username	Required field
custNum	String	Customer Number	00823135	Optional
subrNum	String	Subscriber Number	90802070	Optional
accountNum	String	Account Number	00823135.000000001	Optional
channelCode	String	Specific communication channel code for query	<u>Values</u> SPEC-E NEWS-E FUN-E (See appendix Communication Channel Mapping)	Optional Return specific communication channel information. Return all information when empty string

Sample Request

```
Get all Communication Channel info under customer, account and subscriber number
{
          "requesterID" : "mAccount",
          "custNum" : "023415412",
          "subrNum" : "92020303",
          "accountNum" : "023415412.0000001",
          "channelCode" : ""
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Return Result Code	0 – Success -ve value – Fail	
resultMsg	String	Return result message		
commChannelId	String	Communication Channel Id	1-OPIUSHJAFD	
commChannel	JSONArray of JSONObject	Communication Channel Information array		
commChannel -> channelCode	String	Communication Channel Code	SPEC-E	
commChannel -> channelDesc	String	Communication Channel Description	Special Offers (Email)	
commChannel -> optInFlag	String	Communication Channel Optin Flag	Y – Optin N - Optout	

Success response

```
Success Result with returning all related communication channel record. (as an example, there are 5 communication channel record)
{
        "resultCode" : 0,
        "resultMsg" : "SUCCESS",
        "commChannelId" : "1-SZDFIKJH",
        "commChannel" : [
                {
                        "channelCode" : "SPEC-E",
                        "channelDesc" : "Special Offers (Email)",
                        "optInFlag" : "Y"
                },
                {
                        "channelCode" : "NEWS-E",
                        "channelDesc" : "News & Finance & Investment (Email)",
                        "optInFlag" : "Y"
                },
                {
                        "channelCode" : "FUN-E",
                        "channelDesc" : "Fun Stuff (Email)",
                        "optInFlag" : "N"
                },
                {
                        "channelCode" : "COMM-E",
                        "channelDesc" : "Communication and Internet (Email)",
                        "optInFlag" : "Y"
                },
                {
                        "channelCode" : "RET-E",
                        "channelDesc" : "Retention Offer (Email)",
                        "optInFlag" : "Y"
                }
        ]
}
```

Fail response

```
Missing input parameters
{
        "resultCode": "-1",
        "resultMsg": "Missing input customer, account and subscriber number"
}

Subscriber cannot be found
{
        "resultCode": "-2",
        "resultMsg": "Subscriber cannot be found "
}
```

4. Bill Code List

Purpose

To get bill code list from the subscriber

Interface Details

Production Endpoints: TBC

System	Endpoint (UAT)
UAT	https://crm-uat.smartone.com/api/myAccount
TYK	https://tykapi-u.hksmartone.com/icp/myAccount

API: /billCodeList

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmciOiI2NGY2Y2I1ZmFiYzRhYWI4MGNlZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFiM2ZiMWUyNGGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
custNum	String	Customer number		Mandatory
accountNum	String	Account number		
subrNum	String	Subscriber number		
parallelRun	String	parellelRun indicator to determine the state of the workflow	Postpaid parallel run - Value of 1st charatcer 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM Prepaid parallel run – Value of 2nd character 0 – existing system 1 – new billing	Mandatory

Sample Request

> Enquiry by customer number, account number, subscriber number for active bill code and bill information
> {
>   "custNum": "00008843",
>   "accountNum": "00008843.00028",
>   "subrNum": "91234567",
>   "parallelRun": "00"
> }

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Response result	See below table	
errorCode	String	Error code return from Covalense billing api		
errorDesc	String	Error description return from Covalense billing api		
billCdList	JSON Array	Array for all bill code of the subscriber in OK or PE status		
billCdList -> billCode	String	Bill code		

Result Code

Result Code	Severity	Description
0	N/A	Success
-1	N/A	Missing input parameter

Success response

```
Enquiry by account number for all bill code of the subscriber in OK or PE status
{
        "resultCode": "0",
        "errorDesc": "",
        "errorCode": "",
        "billCdList": [{
                "billCode": "HBD99",
        },{
                "billCode": "3GMC",
        }]
}
```

Fail response

```
{
        "resultCode": "-9000",
        "errorDesc": "Internal Error",
        "errorCode": "10010"
}
```