

New Billing Project

ICP Enquiry (Billing) API Specifications Part 6

Revision History

Revision	Date	Description	Author
1.0	Aug 21, 2025	List of API for IS Billing API	Claudia Fung
	Aug 26, 2025	Add company subsidy API	Claudia Fung

CONTENTS

OBJECTIVES	4
ICP ENQUIRY (IS BILLING) API SPECIFICATIONS	4
1. <i>Postpaid - Check Local Data Top-up Flag by Account</i>	<i>4</i>
2. <i>Postpaid - Check Bnp Roaming Data Topup Flag</i>	<i>7</i>
3. <i>Postpaid - Check CM Roaming Data Topup Flag.....</i>	<i>9</i>
4. <i>Postpaid - Check Roaming Data Topup Flag By Account</i>	<i>11</i>
5. <i>Enquire Company Subsidy</i>	<i>13</i>

Objectives

This document is to provide the list of enquiry functions interfaced with IS Billing API (not vendor API) to postpaid services for New Billing Project. Parallel run logic is also included.

ICP Enquiry (IS Billing) API Specifications

1. Postpaid - Check Local Data Top-up Flag by Account

Purpose

To check local data top-up flag by account

Reference: GNV_DATA_ALERT_PKG.CheckSmsTopupFlagByAcct

Interface Details

Production Endpoints: <https://tykapi-u.hksmartone.com/icp/custProf/>

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

API: /checkSmsTopupFlagByAcct

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmdiOiI2NGY2Y2I1ZmFiYzRhYWl4MGNIZDE1NTUiLCJpZCI6IjFiYzI4OGlzMjZjMTQxNjFiM2ZiMWUyNGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
accountNum	String	Account number		Mandatory
requestBy	String	Request By	OM	Mandatory
parallelRun	String	parallelRun indicator to determine the state of the workflow	<u>Postpaid parallel run - Value of 1st character</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2nd character</u> 0 – existing system 1 – new billing	Mandatory

Sample Request

```
{
  "accountNum": "00008843.00028",
  "requestBy": "OM_Admin",
  "parallelRun": "11"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Response result	See below table	
resultMsg	String	Error description return from IS billing api		
status	String	Return valid result 0 – success 1 or 2 or 98 or 99 - fail		
statusMessage	String	Status message Status 0: Success Status 1: Multiple replies Status 2: No valid invitation records Status 98 or 99: System error		

Result Code

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

Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "status": "0",
  "statusMessage": "Success"
}
```

Fail response

```
{
  "resultCode": "-1",
  "resultMsg": "Missing input parameter"
}
```

2. Postpaid - Check Bnp Roaming Data Topup Flag

Purpose

To check postpaid Bnp roaming data topup flag

Reference: GNV_DATA_RG_ALERT_PKG.CheckBnpRoamSmsTopupFlag

Interface Details

Production Endpoints: <https://tykapi-u.hksmartone.com/icp/custProf/>

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

API: /checkBnpRoamSmsTopupFlag

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcpciOiI2NGY2Y2I1ZmFiYzRhYWUi4MGNIzDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFIM2ZiMWUyNGJIMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
accountNum	String	Account number		Mandatory
cat	String	Catalogue	e.g. DROAMCM:GBPT5:215	Mandatory
requestBy	String	Request By	OM	Mandatory
parallelRun	String	parallelRun indicator to determine the state of the workflow	<u>Postpaid parallel run - Value of 1st charatcer</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2nd character</u> 0 – existing system 1 – new billing	Mandatory

Sample Request

```
{
  "accountNum": "00008843.00028",
  "cat": "DROAMCM:GBPT5:215",
  "requestBy": "OM_Admin",
  "parallelRun": "11"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Response result	See below table	
resultMsg	String	Error description return from IS billing api		
status	String	Return valid result 0 – success 1 or 2 or 98 or 99 - fail		
statusMessage	String	Status message Status 0: Success Status 1: Multiple replies Status 2: No valid invitation records Status 98 or 99: System error		

Result Code

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

Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "status": "0",
  "statusMessage": "Success"
}
```

Fail response

```
{
  "resultCode": "-1",
  "resultMsg": "Missing input parameter"
}
```


3. Postpaid - Check CM Roaming Data Topup Flag

Purpose

To check postpaid CM roaming data topup flag

Reference: GNV_DATA_RG_ALERT_PKG.CheckRoamSmsTopupFlag2

Interface Details

Production Endpoints: <https://tykapi-u.hksmartone.com/icp/custProf/>

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

API: /checkRoamSmsTopupFlag2

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcpciOiI2NGY2Y2I1ZmFiYzRhYWYiMGNIzDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFIM2ZiMWUyNGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
accountNum	String	Account number		Mandatory
requestBy	String	Request By	OM	Mandatory
parallelRun	String	parallelRun indicator to determine the state of the workflow	<u>Postpaid parallel run - Value of 1st charatcer</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2nd character</u> 0 – existing system 1 – new billing	Mandatory

Sample Request

```
{
  "accountNum": "00008843.00028",
  "requestBy": "OM_Admin",
  "parallelRun": "11"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Response result	See below table	
resultMsg	String	Error description return from IS billing api		
status	String	Return valid result 0 – success 1 or 2 or 98 or 99 - fail		
statusMessage	String	Status message Status 0: Success Status 1: Multiple replies Status 2: No valid invitation records Status 98 or 99: System error		

Result Code

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

Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "status": "0",
  "statusMessage": "Success"
}
```

Fail response

```
{
  "resultCode": "-1",
  "resultMsg": "Missing input parameter"
}
```

4. Postpaid - Check Roaming Data Topup Flag By Account

Purpose

To check postpaid roaming data topup flag by Account

Reference: GNV_DATA_RG_ALERT_PKG.CheckRoamSmsTopupFlagByAcct

Interface Details

Production Endpoints: <https://tykapi-u.hksmartone.com/icp/custProf/>

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

API: /checkRoamSmsTopupFlagByAcct

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmdiOiI2NGY2Y2I1ZmFiYzRhYWYi4MGNIzDE1NTUjLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFIM2ZiMWUyNGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
accountNum	String	Account number		Mandatory
requestBy	String	Request By	OM	Mandatory
parallelRun	String	parallelRun indicator to determine the state of the workflow	<u>Postpaid parallel run - Value of 1st charatcer</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2nd character</u> 0 – existing system 1 – new billing	Mandatory

Sample Request

```
{
  "accountNum": "00008843.00028",
  "requestBy": "OM_Admin",
  "parallelRun": "11"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Response result	See below table	
resultMsg	String	Error description return from IS billing api		
status	String	Return valid result 0 – success 1 or 2 or 98 or 99 - fail		
statusMessage	String	Status message Status 0: Success Status 1: Multiple replies Status 2: No valid invitation records Status 98 or 99: System error		

Result Code

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

Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "status": "0",
  "statusMessage": "Success"
}
```

Fail response

```
{
  "resultCode": "-1",
  "resultMsg": "Missing input parameter"
}
```

5. Enquire Company Subsidy

Purpose

To enquire all company subsidy records under a particular dummy number for Corporate Account

Reference: Separate_Bill_Master.findActivateRecord, Separate_Bill_Master.findHistoryRecord, Separate_Bill_Master.findRecordByCust

Interface Details

Production Endpoints: <https://tykapi-u.hksmartone.com/icp/subscription/>

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

API: /getEmployeeSubsidy

Type: REST

Method: POST

Add Key to HTTP Request Header for TYK API:

Name	Auth_ID
Value	eyJvcmcjOjI2NGY2Y2I1ZmFiYzRhYWY4MGNIZDE1NTUjLCJpZC6lJFiyZl4OGIzYzZjMTQxNjFiM2ZiMWUyNGJlMDAyN2FkliwiaCI6Im11cm11cjY0In0=

Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
custNum	String	customer number		Mandatory
subrNum	String	subscriber number		Mandatory
isEmployer	String	The subscriber is employer or employee	Y – employer N – employee	Mandatory
recType	String	Subsidy record type – active or history	A – Active H – History	Mandatory
endDate	String	Mandatory input subsidy record end date for history	Format: YYYY-MM-DD	Optional
parallelRun	String	ParallelRun indicator to determine the state of the workflow	<u>Postpaid parallel run - Value of 1st character</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2nd character</u> 0 – existing system 1 – new billing	Mandatory

Sample Request

```
{
  "custNum": "00008843",
  "subrNum": "90123456",
  "isEmployer": "Y",
  "recType": "H",
  "endDate": "2025-01-01",
  "parallelRun": "11"
}
```

Response Parameters

Parameter	Data Type	Description	Possible Value	Remarks
resultCode	String	Response result	See below table	
resultMsg	String	Error description return from IS billing api		
subsidy	Json Array	Array for subsidy information		
subsidy -> employerCustNum	String	Employer customer number		
subsidy -> employerAccountNum	String	Employer account number		
subsidy -> employerSubrNum	String	Employer subscriber number		
subsidy -> employeeCustNum	String	Employee customer number		
subsidy -> employeeAccountNum	String	Employee account number		
subsidy -> employeeSubrNum	String	Employee subscriber number		
subsidy -> startDate	String	Start Date Format: YYYY-MM-DD HH24:MI:SS		
subsidy -> endDate	String	End Date Format: YYYY-MM-DD HH24:MI:SS		
subsidy -> subsidyAmount	String	Subsidy amount		
subsidy -> subsidyType	String	Subsidy Type		
subsidy -> remarks	String	Remarks		
subsidy -> createDate	String	Create Date Format: YYYY-MM-DD HH24:MI:SS		
subsidy -> createBy	String	Create By		
subsidy -> modifiedDate	String	Modified Date Format: YYYY-MM-DD HH24:MI:SS		
subsidy -> modifiedBy	String	Modified By		
subsidy -> separatebillseq	String	Separate bill sequence only for GNV billing		

Result Code

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

Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "subsidy": [{
    "employerCustNum": "00008843",
    "employerAccountNum": "00008843.00002",
    "employerSubrNum": "60123456",
    "employeeCustNum": "00008843",
    "employeeAccountNum": "00008843.00001",
    "employeeSubrNum": "90123456",
    "startDate": "2024-01-01 13:00:00",
    "endDate": "2025-12-31 13:00:00",
    "subsidyAmount": "150",
    "subsidyType": "F",
    "remarks": "Modification",
    "separateBillSeq": "12345678",
    "createdDate": "2024-01-01 13:00:00",
    "createdBy": "John",
    "modifiedDate": "2024-12-01 13:00:00",
    "modifiedBy": "Nisha"
  },{
    "employerCustNum": "00008843",
    "employerAccountNum": "00008843.00002",
    "employerSubrNum": "60123456",
    "employeeCustNum": "00008843",
    "employeeAccountNum": "00008843.00002",
    "employeeSubrNum": "90123457",
    "startDate": "2024-02-01 13:00:00",
    "endDate": "2025-12-31 13:00:00",
    "subsidyAmount": "200",
    "subsidyType": "F",
    "remarks": "Modification",
    "separateBillSeq": "22345678",
    "createdDate": "2024-02-01 13:00:00",
    "createdBy": "John",
    "modifiedDate": "2024-12-01 13:00:00",
    "modifiedBy": "Nisha"
  }]
}
```

Fail response

```
{
  "resultCode": "-1",
  "resultMsg": "Missing input parameter"
}
```