

# **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
1.1	Sep 24, 2025	Add WiFi Egg Travel Pack Info API	Claudia Fung
	Sep 26, 2025	Add Adjustment History Transaction API	Claudia Fung

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## 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	<a href="https://crm-uat.smartone.com/api/custProf">https://crm-uat.smartone.com/api/custProf</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/custProf">https://tykapi-u.hksmartone.com/icp/custProf</a>

**API:** /checkSmsTopupFlagByAcct

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcmdiOiI2NGY2Y2I1ZmFiYzRhYWl4MGNIZDE1NTUiLCJpZCI6IjFiYzI4OGlzMjZjMTQxNjFiM2ZiMWUyNGJlMDAyN2FkliwiaCI6Im11cm11cjY0In0=

## 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 1<sup>st</sup> character</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2<sup>nd</sup> 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	<a href="https://crm-uat.smartone.com/api/custProf">https://crm-uat.smartone.com/api/custProf</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/custProf">https://tykapi-u.hksmartone.com/icp/custProf</a>

**API:** /checkBnpRoamSmsTopupFlag

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcpciOiI2NGY2Y2I1ZmFiYzRhYWU4MGNlZDE1NTUjLCJpZC6lajFiyZl4OGIzYzZjMTQxNjFIM2ZiMWUyNGJIMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

### 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 1<sup>st</sup> charatcer</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2<sup>nd</sup> 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	<a href="https://crm-uat.smartone.com/api/custProf">https://crm-uat.smartone.com/api/custProf</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/custProf">https://tykapi-u.hksmartone.com/icp/custProf</a>

**API:** /checkRoamSmsTopupFlag2

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcpciOiI2NGY2Y2I1ZmFiYzRhYWYi4MGNIzDE1NTUjLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFIM2ZiMWUyNGJIMDAyN2FkliwiaCI6Im11cm11cjY0In0=

#### 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 1<sup>st</sup> charatcer</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2<sup>nd</sup> 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	<a href="https://crm-uat.smartone.com/api/custProf">https://crm-uat.smartone.com/api/custProf</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/custProf">https://tykapi-u.hksmartone.com/icp/custProf</a>

**API:** /checkRoamSmsTopupFlagByAcct

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcnciOiI2NGY2Y2I1ZmFiYzRhYWY1MGNIWDE1NTU1LCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFIM2ZiMWUyNGJIMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

##### 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 1<sup>st</sup> charatcer</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM <u>Prepaid parallel run – Value of 2<sup>nd</sup> 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.hksmartone.com/icp/subscription/>

System	Endpoint (UAT)
UAT	<a href="https://crm-uat.smartone.com/api/subscription">https://crm-uat.smartone.com/api/subscription</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/subscription">https://tykapi-u.hksmartone.com/icp/subscription</a>

**API:** /getEmployeeSubsidy

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcmcioiI2NGY2Y2I1ZmFiYzRhYWY4MGNIZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFiM2ZiMWUyNGJlMDAyN2FkliwiaCI6Im11cm11cjY0In0=

### 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",
  "subNum": "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 -> employerSubNum	String	Employer subscriber number		
subsidy -> employeeCustNum	String	Employee customer number		
subsidy -> employeeAccountNum	String	Employee account number		
subsidy -> employeeSubNum	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"
}
```





## 6. WiFi Egg Travel Pack Information

### Purpose

To get WiFi egg travel pack information for postpaid service in New Billing

Reference: OM\_ROAMING\_SIM.wifi\_egg\_travel\_pack\_info; gnv\_travel\_card.get\_remaining\_buckets

### Interface Details

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

System	Endpoint (UAT)
UAT	<a href="https://crm-uat.smartone.com/api/subscription">https://crm-uat.smartone.com/api/subscription</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/subscription">https://tykapi-u.hksmartone.com/icp/subscription</a>

**API:** /wifiEggTravelPackInfo

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcmdiOiI2NGY2Y2I1ZmFiYzRhYWI4MGNIZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFiM2ZiMWUyNGJlMDAyN2FkIiwiaCI6Im11cm11cjY0In0=

### Request Parameters

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

## Sample Request

```
{
  "custNum": "00008843.00028",
  "accountNum": "00008843.00028",
  "subNum": "91234567",
  "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		
cardExpiryDate	String	Card Expiry Date Format: YYYY-MM-DD HH24:MI:SS		
travelCard	Json Array	Travel Card Bucket Information		
travelCard -> bucketName	String	Bucket name of Travel Birdie Zone A .. Z	TBIRDA ... TBIRDZ	
travelCard -> remaining	String	Remaining bucket of the travel card		

## Result Code

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

## Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "cardExpiryDate": "2025-12-30 01:00:00",
  "travelCard": [{
    "bucketName": "TBIRDA",
    "remaining": "35461338"
  }]
}
```

## Fail response

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

## 7. Adjustment History

### Purpose

To get adjustment history for prepaid service in New Billing System

Reference: GNV table sa\_subr\_rbadjustment\_view

### Interface Details

**Production Endpoints:** <https://tykapi.hksmartone.com/icp/NBill/brm/v1/subscription/>

System	Endpoint (UAT)
UAT	<a href="https://crm-uat.smartone.com/api/subscription">https://crm-uat.smartone.com/api/subscription</a>
TYK	<a href="https://tykapi-u.hksmartone.com/icp/NBill/brm/v1/subscription">https://tykapi-u.hksmartone.com/icp/NBill/brm/v1/subscription</a>

**API:** /adjustmentHistory

**Type:** REST

**Method:** POST

**Add Key to HTTP Request Header for TYK API:**

Name	Auth_ID
Value	eyJvcmdiOiI2NGY2Y2I1ZmFiYzRhYWI4MGNIZDE1NTUiLCJpZCI6IjFiYzI4OGIzYzZjMTQxNjFiM2ZiMWUyNGJlMDAyN2FkliwiaCI6Im11cm11cjY0In0=

### Request Parameters

Parameter	Data Type	Description	Possible Value	Remarks
accountNum	String	Account number		Mandatory
startDate	String	Start date for adjustment transaction	Format: YYYY-MM-DD	Mandatory
endDate	String	End date for adjustment transaction	Format: YYYY-MM-DD	Mandatory
parallelRun	String	parallelRun indicator to determine the state of the workflow	Postpaid parallel run - <u>Value of 1<sup>st</sup> character</u> 0 – existing system 1 – new billing 2 – parallel run in GNV & new billing in OM Prepaid parallel run – <u>Value of 2<sup>nd</sup> character</u> 0 – existing system 1 – new billing	Mandatory

## Sample Request

```
{
  "accountNum": "00008843.00028",
  "startDate": "2025-07-01",
  "endDate": "2025-08-01",
  "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		
custNum	String	Customer number		
acctNum	String	Account number		
subrNum	String	Subscriber number		
adjustInfo	Json Array	Adjustment transaction (exclude cancel case)		
adjustInfo -> transactionDate	String	Transaction date Format: YYYY-MM-DD HH24:MI:SS		
adjustInfo -> transactionType	String	Transaction type	ADJ	
adjustInfo -> transactionRef	String	Ledger reference		
adjustInfo -> transactionText	String	Ledger text		
adjustInfo -> amount	String	Adjusted amount		

## Result Code

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

## Success response

```
{
  "resultCode": "0",
  "resultMsg": "",
  "custNum": "00008843",
  "acctNum": "00008843.00028",
  "subrNum": "91234567",
  "adjustInfo": [{
    "transactionDate": "2025-08-01 00:00:00",
    "transactionType": "ADJ",
    "transactionRef": "12342",
    "transactionText": "FTBAL",
    "amount": "500"
  }]
}
```

## Fail response

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