

Introduction

The document covers the details of the Retrieve BEID Service to be implemented in DAG. The below sections will cover details on business functionality and design which needs to be implemented to build the Fuse API.

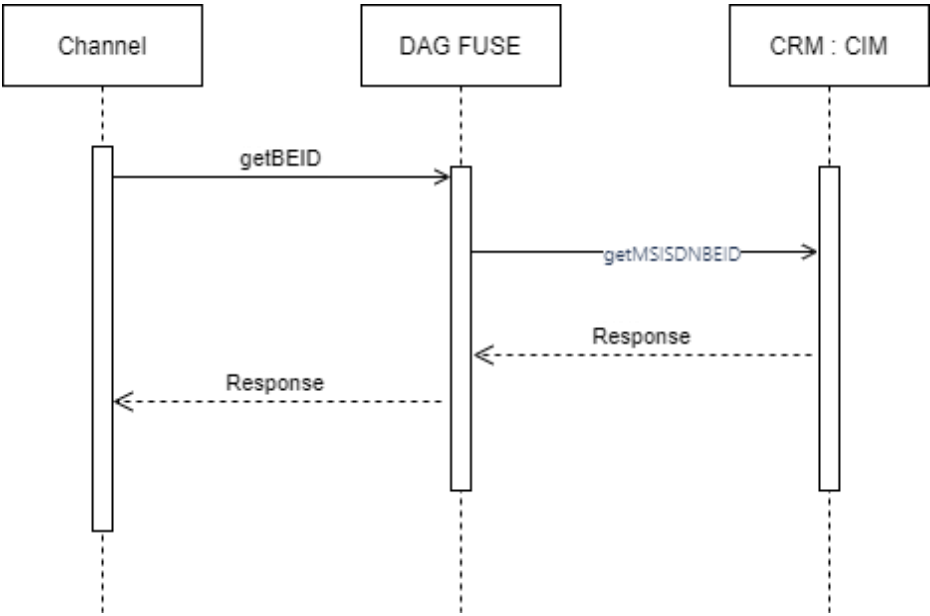
Service Description

The Retrieve BEID service is a REST based service which is used to query the BEID value for a given MSISDN from CIM.

The BEID is an ID, representing the network operator that the MSISDN belongs to. The Channel or MVNO partners will use the service to query the correct BEID value before placing the request.

Interface Details

Sequence Diagram



Interface Service Design

| | |
|--------------|------------------------------|
| Service Name | RetrieveBusinessEntityId |
| MEP | Synchronous Request-Response |

| | |
|-------------------------------|--|
| Operation | HTTP GET |
| Service Type | Camel context |
| Service URL | DAG/subscriberManagement/v1/businessEntity?msisdn={msisdn-value} |
| Input Message | GET RetrieveBusinessEntity JSON Request |
| Output Message | GET RetrieveBusinessEntity JSON Response |
| Fault Message | GET RetrieveBusinessEntity JSON Fault |
| Service Implementation | RedHat Fuse |

Request Parameters

| Request | SubElement | Type | M/O | Length | Remark |
|--------------------|------------|--------|-----|--------|--|
| Query Param | msisdn | String | M | 30 | Subscriber MSISDN value based on which the BEID & Sub root Id of the reseller / partner would be returned. |

Response Parameters

| Parent Element | Sub Element | Type | M/O | Length | Remark |
|-----------------------|-------------|--------|-----|--------|---|
| businessEntityDetails | | | M | | Parent element which holds the BEID details. |
| | id | String | M | 8 | BEID of the MSISDN |
| | subRootId | String | O | 8 | Sub root Id for reseller such as 102-1, 102-2 etc. LOV will be provided during MVNO solution |

HTTP Response Code

The below rules are followed for sending the response back to the consumer:

- success: 2XX - Success Indicates that the client's request was accepted successfully.
- failed: 4XX - Failed because of a validation error.
- failed: 5XX - The server is unable to process the request because of a server error.

Usage Samples

Request

```
GET DAG/subscriberManagement/v1/businessEntity?msisdn={msisdn-value}
Content-Type: application/json
```

Response

```
200 Success
Content-Type: application/json
X-Correlation-Id: 2252-465a-924c-ef175429637e
X-Request-Id: KSK20120530221525000839
X-Source-System-Id: MSA
```

```
{
  "businessEntityDetails": {
    "id": "102",
    "subRootId": "External"
  }
}
```

Error Response (Technical Errors)

```
400 Bad Request
Content-type: application/json
X-Correlation-Id: 2252-465a-924c-ef175429637e
X-Request-Id: KSK20120530221525000839
X-Source-System-Id: PAM
{
  "code": "DAG:00001",
  "reason": "Connection Error. Exception happened while processing the request",
  "message": "Connection Error. ESB:EX00001"
}
```

Internal Mapping Information

Please note that the below nomenclature is followed to define the mapping sheet.

v: Request from consumer

x: Request to CIM

y: Response from CIM

z: Response to consumer

| DAG_RetrieveBusinessEntityId Request | CIM getMSISDNBEID Details Request | Comment |
|---|--|----------------|
| v.msisdn | x.GetMsisdnBeIdRequest.msisdn | |

| Response Mapping | | |
|---|--|-----------------|
| CIM getMSISDNBEID Details Response | DAG_RetrieveBusinessEntityId Response | Comments |
| y.GetMsisdnBeIdResponse.GetMsisdnBeIdResult.beId | z.businessEntityDetails.id | |
| y.GetMsisdnBeIdResponse.GetMsisdnBeIdResult.subRootId | z.businessEntityDetails.subRootId | |

Interface Error Handling

The section covers the details of the fault management which will be taken care of during service Implementation. Following are some of the errors which can be encountered during service implementation:

System Fault

Connectivity Errors like errors during communication with the back-end system. Error is due to other issues, not related to data, then fix the root cause in the application and transactions need to be re-triggered.