

# DSC/ILF Provisioning over CAI3G

## Ericsson Dynamic Activation 1

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### INTERFACE DESCRIPTION

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# 1 Introduction

This section contains information about the prerequisites, purpose, scope, and target group for the document. This section also contains information about typographic conventions used in this document.

## 1.1 Purpose and Scope

This document describes the Individual Locator Function (ILF) CAI3G interface that is provided for provisioning of Diameter Signaling Controller (DSC).

CAI3G is an Ericsson propriety interface that enables provisioning of user and subscriber data in telecommunication and IT networks. It is a web service interface based on Simple Object Access Protocol (SOAP) 1.1.

**Note:** This document is not a tutorial of CAI3G, and it must be used together with document *Generic CAI3G Interface 1.2*, Reference [2].

## 1.2 Target Groups

The target group for this document is as follows:

- System Integrator

For more information about the different target groups, see *Library Overview*, Reference [1].

## 1.3 Typographic Conventions

Typographic conventions are described in the document *Library Overview*, Reference [1].

In addition, this document uses the following to indicate operations:

<b>C</b>	Create
<b>S</b>	Set
<b>G</b>	Get
<b>D</b>	Delete

## 1.4 Prerequisites

This document is written with the assumption that the users:



- Have basic knowledge about the Ericsson™ Dynamic Activation (EDA) product.
- Have knowledge about *Generic CAI3G Interface 1.2*, Reference [2].

## 1.5 Namespaces

The following namespaces are referred to in this document:

- CAI3G 1.2 Namespace:

`http://schemas.ericsson.com/cai3g1.2/`

- ILF Provisioning Namespace:

`http://schemas.ericsson.com/ema/UserProvisioning/ILF/`

- SLF Provisioning Namespace:

`http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/`

## 1.6 Operations

See the following table for the operations, or Managed Objects (MOs), and valid operations covered in this document.

*Table 1 DSC/ILF Provisioning*

MO	Operations			
	Create	Get	Set	Delete
SLFSubscription		x	x	
Subscription		x	x	

## 1.7 Web Service Interface

The Web Services Definition Language (WSDL) and XML Schema Definition Language (XSD) files that describe the provisioning interface can be found in `/home/dveinstaller/da/`. It is also possible to download the files and view or store them in an appropriate area by following below instruction:

1. Save the zip file, [Multi\\_Activation\\_WSDL\\_and\\_XSD\\_files.zip](#), to a local folder.
2. Unpack the zip file.



## 1.8 MOType

MOType is a plain text string based on the type `xs:string`. An MOType consists of two parts. One is the namespace of the MO, and the other is the MO name string that is always starting with an alphabetical character in either upper or lower case, followed by zero or more alphabetical characters, digits or underscores.

Those two parts are connected with symbol @. The syntax of the MOType string is `MO_Name@MO_Namespace`. The name string of an MOType must follow the regular expression: `[A-Za-z][A-Za-z0-9]*`

The MO name together with the MO namespace must be globally unique.

## 1.9 MOId

MOId is an XML fragment containing the MOId parameter-value pairs that are used to identify an MO instance in the interface data model. CAI3G 1.2 standard supports compound MO identifiers or multiple MO identifier. The following is an example of an MOId:

```
<MOId>
  <msisdn>46455395000</msisdn>
  <imsi>46234563545000</imsi>
</MOId>
```

### *Example 1 Example of MOId*

The MOId is defined as a sequence of `xs:any` element in CAI3G schema file. It is the developers responsibility to define the real schema for this parameter.

The MOId is also the key attributes that must be defined in the top-level element, `CreateMODefinition` or `SetMODefinition`, within `MOAttributes` parameter.

Each implementation of CAI3G interface is to define own logic relationship of MOId. It is also the CAI3GAgents responsibility to interpret this parameter correctly by either the hard-coded logic or the dynamic parsing of the schema.







## 2 Set Subscription

This section covers the ILF Subscription command `SetSubscription`.

### MOType

`Subscription@http://schemas.ericsson.com/ema/UserProvisioning/ILF/`

### 2.1 Request Data

#### MOId

*Table 2 Set Subscription MOID Parameters*

Parameter	Type	Occurrence	Description
<code>imsi</code>	Digital string 6-15 digits Each digit is 0-9	Optional	IMSI
<code>msisdn</code>	Digital string 5-15 digits Each digit is 0-9	Optional	MSISDN
<code>publicIdentity</code>	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	Restricted SIP URI or TEL URL  Examples: <ul style="list-style-type: none"> <li>• sip - sip:impul@operator.com</li> <li>• tel - tel:+34657881898</li> </ul>
<code>privateIdentity</code>	String 1-256 bits	Optional	Private identity

#### MOAttributes

The following table covers the parameters that can be used in a `SetSubscription` request.

*Table 3 Set Subscription MO Attributes*

Parameter	Type	Occurrence	Description
<code>imsiEntry<sup>(1)</sup></code>		Optional	
<code>imsi</code>	Digital string 6-15 digits Each digit is 0-9	Mandatory	This attribute contains the IMSI associated with the subscriber.
<code>destination</code>	String	Mandatory	The attribute describes the destination value.  Example: HSS
<code>msisdnEntry<sup>(1)</sup></code>		Optional	



Parameter	Type	Occurrence	Description
msisdn	Digital string 5-15 digits Each digit is 0-9	Mandatory	This attribute contains the MSISDN associated with the subscriber.
destination	String	Mandatory	The attribute describes the destination value. Example: HSS
publicIdEntry <sup>(1)</sup>		Optional	
publicIdentity	String 1-256 bits prefixed with "tel:" or "sip:"	Mandatory	Restricted SIP URI or TEL URL Examples: <ul style="list-style-type: none"><li>• sip - sip:impul@operator.com</li><li>• tel - tel:+34657881898</li></ul>
destination	String	Mandatory	The attribute describes the destination value. Example: HSS
privateIdEntry <sup>(1)</sup>		Optional	
privateIdentity	String 1-256 bits	Mandatory	Private identity
destination	String	Mandatory	The attribute describes the destination value. Example: HSS

(1) if nil = true, the Delete operation is executed.

## 2.2 Example

An example of a SetSubscription message is as follows:



```

Request:
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:ilf="http://schemas.ericsson.com/ema/UserProvisioning/ILF/">
  <soapenv:Header>
    <cai3:SessionId>72e3e45b8b104936a30b144ba334f945</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Set>
      <cai3:MOType>
        Subscription@http://schemas.ericsson.com/ema/UserProvisioning/ILF/
      </cai3:MOType>
      <cai3:MOId>
        <ilf:imsi>413685500000502</ilf:imsi>
        <ilf:msisdn>46455395000</ilf:msisdn>
        <ilf:publicIdentity>sip:alice_create@test.company.com</ilf:publicIdentity>
        <ilf:privateIdentity>alice_create</ilf:privateIdentity>
      </cai3:MOId>
      <cai3:MOAttributes>
        <ilf:setSubscription imsi="413685500000502" msisdn="46455395000"
          privateIdentity="alice_create" publicIdentity="sip:alice_create@test.company.com">
          <ilf:imsiEntry imsi="413685500000502">
            <ilf:imsi>413685500000502</ilf:imsi>
            <ilf:destination>HSS4</ilf:destination>
          </ilf:imsiEntry>
          <ilf:msisdnEntry msisdn="46455395000">
            <ilf:msisdn>46455395000</ilf:msisdn>
            <ilf:destination>HSS4</ilf:destination>
          </ilf:msisdnEntry>
          <ilf:publicIdEntry publicIdentity="sip:alice_create@test.company.com">
            <ilf:publicIdentity>sip:alice_create@test.company.com</ilf:publicIdentity>
            <ilf:destination>HSS3</ilf:destination>
          </ilf:publicIdEntry>
          <ilf:privateIdEntry privateIdentity="alice_create">
            <ilf:privateIdentity>alice_create</ilf:privateIdentity>
            <ilf:destination>HSS5</ilf:destination>
          </ilf:privateIdEntry>
        </ilf:setSubscription>
      </cai3:MOAttributes>
    </cai3:Set>
  </soapenv:Body>
</soapenv:Envelope>

Response:
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SessionId xmlns="http://schemas.ericsson.com/cai3g1.2/">
      72e3e45b8b104936a30b144ba334f945</SessionId>
    <TransactionId xmlns="http://schemas.ericsson.com/cai3g1.2/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
    <SequenceId xmlns="http://schemas.ericsson.com/cai3g1.2/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
    <Context xmlns="http://schemas.ericsson.com/cai3g1.2/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
  </S:Header>
  <S:Body>
    <SetResponse xmlns="http://schemas.ericsson.com/cai3g1.2/">
  </S:Body>
</S:Envelope>

```

### Example 2 Set Subscription Message





## 3 Get Subscription

This section covers the ILF Subscription command `GetSubscription`.

The `GetSubscription` operation returns the related data using the provided `msisdn`, `imsi`, `publicIdentity`, or `privateIdentity` value.

### MOType

`Subscription@http://schemas.ericsson.com/ema/UserProvisioning/ILF/`

### 3.1 Request Data

#### MOId

The following table covers the parameters that can be received in a `GetSubscription` request.

*Table 4 Get Subscription MOID Parameters*

Parameter	Type	Occurrence	Description
<code>imsi</code>	Digital string 6-15 digits Each digit is 0-9	Optional	IMSI
<code>msisdn</code>	Digital string 5-15 digits Each digit is 0-9	Optional	MSISDN
<code>publicIdentity</code>	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	Restricted SIP URI or TEL URL  Examples: <ul style="list-style-type: none"> <li><code>sip - sip:impul@operator.com</code></li> <li><code>tel - tel:+34657881898</code></li> </ul>
<code>privateIdentity</code>	String 1-256 bits	Optional	Private identity

### 3.2 Response Data

#### MOAttributes

The following table covers the parameters that can be received in a `GetSubscription` response.

**Table 5** *Get Subscription MO Attributes*

Parameter	Type	Occurrence	Description
imsiEntry		Optional	
imsi	Digital string 6-15 digits Each digit is 0-9	Mandatory	This attribute contains the IMSI associated with the subscriber.
destination	String	Mandatory	The attribute describes the destination value. Example: HSS
msisdnEntry		Optional	
msisdn	Digital string 5-15 digits Each digit is 0-9	Mandatory	This attribute contains the MSISDN associated with the subscriber.
destination	String	Mandatory	The attribute describes the destination value. Example: HSS
publicIdEntry		Optional	
publicIdentity	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	Restricted SIP URI or TEL URL Examples: <ul style="list-style-type: none"><li>• sip - sip:impul@operator.com</li><li>• tel - tel:+34657881898</li></ul>
destination	String	Mandatory	The attribute describes the destination value. Example: HSS
privateIdEntry		Optional	
privateIdentity	String 1-256 bits	Optional	Private identity
destination	String	Mandatory	The attribute describes the destination value. Example: HSS

### 3.3 Example

An example of a GetSubscription message is as follows:



```

Request:
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3gl.2/"
  xmlns:ilf="http://schemas.ericsson.com/ema/UserProvisioning/ILF/">
  <soapenv:Header>
    <cai3:SequenceId>33</cai3:SequenceId>
    <cai3:TransactionId>44</cai3:TransactionId>
    <cai3:SessionId>55</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>Subscription@http://schemas.ericsson.com/ema/UserProvisioning/ILF/
      </cai3:MOType>
      <cai3:MOId>
        <ilf:publicIdentity>sip:alice@test.company.com </ilf:publicIdentity>
      </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>

Response:
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3gl.2/"
  xmlns:ilf="http://schemas.ericsson.com/ema/UserProvisioning/ILF/">
  <soapenv:Header>
    <cai3:SequenceId>33</cai3:SequenceId>
    <cai3:TransactionId>44</cai3:TransactionId>
    <cai3:SessionId>55</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:GetResponse>
      <cai3:MOAttributes>
        <ilf:getResponseSubscription publicIdentity="sip:alice@test.company.com">
          <ilf:publicIdEntry publicIdentity="sip:alice@test.company.com">
            <ilf:publicIdentity>sip:alice@test.company.com</ilf:publicIdentity>
            <ilf:destination>HSS2</ilf:destination>
          </ilf:publicIdEntry>
        </ilf:getResponseSubscription>
      </cai3:MOAttributes>
    </cai3:GetResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

### Example 3 Get Subscription Message

The subscriber with publicIdentity sip:alice@test.company.com from destination HSS2 is printed.







## 4 Set SLFSubscription

This section covers the ILF command `setSLFSubscription`.

Some parameters of `setSLFSubscription` do not support the Set operation currently, but still they are allowed parameters in the request.

### MOType

`SLFSubscription@http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/`

### 4.1 Request Data

#### MOId

*Table 6 Set SLF Subscription MOID Parameters*

Parameter	Type	Occurrence	Description
<code>subscriberId</code> <sup>(1)</sup>	String	Mandatory	N/A

*(1) This parameter is ignored during ILF provisioning currently.*

#### MOAttributes

The following table covers the parameters that can be used in a `SetSLFSubscription` request.

*Table 7 Set SLFSubscription MO Attributes*

Parameter	Type	Occurrence	Description
<code>slfName</code> <sup>(1)</sup>	String	Optional	N/A
<code>imsiEntry</code>		Optional	
<code>imsi</code>	Digital string 6-15 digits Each digit is 0-9	Optional	This attribute contains the IMSI associated with the subscriber.
<code>diaserver</code>	String	Optional	The attribute describes the destination value. Example: HSS
<code>imsiValidForModules</code> <sup>(1)</sup>	String with minimum length 2	Optional	N/A
<code>msisdnEntry</code>		Optional	
<code>msisdn</code>	Digital string 5-15 digits Each digit is 0-9	Optional	This attribute contains the MSISDN associated with the subscriber.



Parameter	Type	Occurrence	Description
diaserver	String	Optional	The attribute describes the destination value. Example: HSS
publicIdEntry		Optional	
publicIdentity	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	Restricted SIP URI or TEL URL Examples: <ul style="list-style-type: none"><li>• sip - sip:impul@operator.com</li><li>• tel - tel:+34657881898</li></ul>
diaserver	String	Optional	The attribute describes the destination value. Example: HSS
privateIdEntry		Optional	
privateIdentity	String 1-256 bits	Optional	Private identity
diaserver	String	Optional	The attribute describes the destination value. Example: HSS
imsiRangeEntry		Optional	
imsiRange <sup>(1)</sup>	Digital string 0-15 digits Each digit is 0-9	Optional	N/A
diaserver <sup>(1)</sup>	String	Optional	N/A
msisdNRangeEntry		Optional	
msisdNRange <sup>(1)</sup>	Digital string 0-15 digits Each digit is 0-9	Optional	N/A
diaserver <sup>(1)</sup>	String	Optional	N/A
publicIdRangeEntry		Optional	
publicIdRange <sup>(1)</sup>	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	N/A
diaserver <sup>(1)</sup>	String	Optional	N/A
privateIdRangeEntry		Optional	
privateIdRange <sup>(1)</sup>	String 1-256 bits	Optional	N/A
diaserver <sup>(1)</sup>	String	Optional	N/A

(1) This parameter is ignored during ILF provisioning currently.

## 4.2 Example

An example of a SetSLFSubscription message is as follows:

In the following example, the Set operation for slfName is ignored.



```

Request:
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:ns="http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/">
  <soapenv:Header>
    <cai3:SequenceId>33</cai3:SequenceId>
    <cai3:TransactionId>44</cai3:TransactionId>
    <cai3:SessionId>55</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Set>
      <cai3:MOType>
        SLFSubscription@http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/
      </cai3:MOType>
      <cai3:MOId>
        <ns:subscriberId>abc</ns:subscriberId>
      </cai3:MOId>
      <cai3:MOAttributes>
        <ns:setSLFSubscription subscriberId="abc">
          <ns:slfName>aaa</ns:slfName>
          <ns:imsiEntry imsi="413685500000502">
            <ns:imsi>413685500000502</ns:imsi>
            <ns:diaserver>HSS4</ns:diaserver>
          </ns:imsiEntry>
          <ns:msisdnEntry msisdn="1234502">
            <ns:msisdn>1234502</ns:msisdn>
            <ns:diaserver>HSS4</ns:diaserver>
          </ns:msisdnEntry>
          <ns:publicIdEntry publicId="sip:alice@test.company.com">
            <ns:publicId>sip:alice@test.company.com</ns:publicId>
            <ns:diaserver>HSS3</ns:diaserver>
          </ns:publicIdEntry>
        </ns:setSLFSubscription>
      </cai3:MOAttributes>
    </cai3:Set>
  </soapenv:Body>
</soapenv:Envelope>

Response:
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/">
  <soapenv:Header>
    <cai3:SequenceId>33</cai3:SequenceId>
    <cai3:TransactionId>44</cai3:TransactionId>
    <cai3:SessionId>55</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:SetResponse/>
  </soapenv:Body>
</soapenv:Envelope>

```

#### Example 4 Set SLFSubscription Message





## 5 Get SLFSubscription

This section covers the ILF command `getSLFSubscription`.

Some parameters of `getSLFSubscription` do not support the Get operation currently, but still they are allowed parameters in the request.

### MOType

SLFSubscription@http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/

### 5.1 Request Data

#### MOId

*Table 8 Get SLF Subscription MOID Parameters*

Parameter	Type	Occurrence	Description
subscriberId <sup>(1)</sup>	String	Mandatory	N/A

(1) This parameter is ignored during ILF provisioning currently.

#### MOAttributes

The following table covers the parameters that can be used in a `getSLFSubscription` request.

*Table 9 Get SLFSubscription MO Attributes*

Parameter	Type	Occurrence	Description
slfName <sup>(1)</sup>	String	Optional	N/A
imsiEntry	Digital string 6-15 digits Each digit is 0-9	Optional	This attribute contains the IMSI associated with the subscriber.
msisdnEntry	Digital string 5-15 digits Each digit is 0-9	Optional	This attribute contains the MSISDN associated with the subscriber.
publicIdEntry	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	Restricted SIP URI or TEL URL  Examples: <ul style="list-style-type: none"> <li>• sip - sip:impul@operator.com</li> <li>• tel - tel:+34657881898</li> </ul>
privateIdEntry	String 1-256 bits	Optional	Private identity



Parameter	Type	Occurrence	Description
imsiRangeEntry <sup>(1)</sup>	Digital string 0-15 digits Each digit is 0-9	Optional	N/A
msisdNRangeEntry <sup>(1)</sup>	Digital string 0-15 digits Each digit is 0-9	Optional	N/A
publicIdRangeEntry <sup>(1)</sup>	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	N/A
privateIdRangeEntry <sup>(1)</sup>	String 1-256 bits	Optional	N/A

(1) This parameter is ignored during ILF provisioning currently.

## 5.2 Response Data

### MOId

The following table covers the parameters that can be received in a `getSLFSubscription` request.

*Table 10 Get SLF Subscription MOID Parameters*

Parameter	Type	Occurrence	Description
subscriberId <sup>(1)</sup>	String	Mandatory	N/A

(1) This parameter is ignored during ILF provisioning currently.

### MOAttributes

The following table covers the parameters that can be used in a `getSLFSubscription` response.

*Table 11 Get SLFSubscription MO Attributes*

Parameter	Type	Occurrence	Description
subscriberId <sup>(1)</sup>	String	Mandatory	N/A
imsiEntry		Optional	
imsi	Digital string 6-15 digits Each digit is 0-9	Mandatory	This attribute contains the IMSI associated with the subscriber.
diaserver	String	Mandatory	The attribute describes the destination value. Example: HSS
msisdNEntry		Optional	
msisdN	Digital string 5-15 digits Each digit is 0-9	Mandatory	This attribute contains the MSISDN associated with the subscriber.
diaserver	String	Mandatory	The attribute describes the destination value. Example: HSS



Parameter	Type	Occurrence	Description
publicIdEntry		Optional	
publicIdentity	String 1-256 bits prefixed with "tel:" or "sip:"	Optional	Restricted SIP URI or TEL URL Examples: <ul style="list-style-type: none"> <li>• sip - sip:impul@operator.com</li> <li>• tel - tel:+34657881898</li> </ul>
diaserver	String	Mandatory	The attribute describes the destination value. Example: HSS
privateIdEntry		Optional	
privateIdentity	String 1-256 bits	Optional	Private identity
diaserver	String	Mandatory	The attribute describes the destination value. Example: HSS

(1) This parameter is ignored during ILF provisioning currently.

## 5.3 Example

An example of a GetSLFSubscription message is as follows:



Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3gl.2/"
  xmlns:ns="http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/">
  <soapenv:Header>
    <cai3:SequenceId>33</cai3:SequenceId>
    <cai3:TransactionId>44</cai3:TransactionId>
    <cai3:SessionId>55</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>
        SLFSubscription@http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/
      </cai3:MOType>
      <!--Optional:-->
      <cai3:MOId>
        <ns:subscriberId>abc</ns:subscriberId>
      </cai3:MOId>
      <cai3:MOAttributes>
        <ns:getSLFSubscription subscriberId="abc">
          <ns:slfName>aaaaaa</ns:slfName>
          <ns:publicIdEntry publicId="alice@company.com.cn"/>
        </ns:getSLFSubscription>
      </cai3:MOAttributes>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3gl.2/"
  xmlns:ns="http://schemas.ericsson.com/ema/UserProvisioning/SLF/1.1/">
  <soapenv:Header>
    <cai3:SequenceId>33</cai3:SequenceId>
    <cai3:TransactionId>44</cai3:TransactionId>
    <cai3:SessionId>55</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:GetResponse>
      <cai3:MOId>
        <ns:subscriberId>abc</ns:subscriberId>
      </cai3:MOId>
      <cai3:MOAttributes>
        <ns:getResponseSLFSubscription subscriberId="abc">
          <ns:subscriberId>abc</ns:subscriberId>
          <ns:publicIdEntry publicId="sip:alice@test.company.com">
            <ns:publicId>sip:alice@test.company.com</ns:publicId>
            <ns:diaserver>HSS2</ns:diaserver>
          </ns:publicIdEntry>
        </ns:getResponseSLFSubscription>
      </cai3:MOAttributes>
    </cai3:GetResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

### *Example 5 Get SLFSubscription Message*





## 6 Faults or Errors

The generic structure for fault responses is covered in *Generic CAI3G Interface 1.2*, Reference [2]. That document also covers the generic fault codes, which are applicable to all CAI3G operations.

This section covers the subordinate CAI3G errors. They can appear in the `errorcode` element in the error message.

The following is an example of a CAI3G error message:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>2cf0bf2f77d245cc8adeae4ae0311d36</cai3g:SessionId>
    <cai3g:SequenceId>12345</cai3g:SequenceId>
    <cai3g:TransactionId>12345</cai3g:TransactionId>
  </S:Header>
  <S:Body>
    <ns2:Fault xmlns:ns2="http://schemas.xmlsoap.org/soap/envelope/"
      xmlns:ns3="http://www.w3.org/2003/05/soap-envelope">
      <faultcode>ns2:Server</faultcode>
      <faultstring>This is a server fault</faultstring>
      <detail>
        <Cai3gFault:Cai3gFault xmlns="http://schemas.ericsson.com/cai3g1.2/"
          xmlns:Cai3gFault="http://schemas.ericsson.com/cai3g1.2/">
          <faultcode>4006</faultcode>
          <faultreason>
            <reasonText>External error.</reasonText>
          </faultreason>
          <faultrole>NEF</faultrole>
          <details>
            <UserProvisioningFault:UserProvisioningFault
              xmlns="http://schemas.ericsson.com/ema/UserProvisioning/"
              xmlns:UserProvisioningFault="http://schemas.ericsson.com/ema/UserProvisioning/">
              <respCode>36006</respCode>
              <respDescription>No such object. External error. Failed when
                provisioning ILF. - [Processed by PG Node: node1]</respDescription>
            </UserProvisioningFault:UserProvisioningFault>
          </details>
        </Cai3gFault:Cai3gFault>
      </detail>
    </ns2:Fault>
  </S:Body>
</S:Envelope>
```

**Example 6** CAI3G Error Message

### 6.1 Dynamic Activation Internal Errors

The following table covers Dynamic Activation internal error codes. They can appear in any CAI3G responses.

**Table 12** General Dynamic Activation Internal Error Codes

Error Code	Error Message
1003	Unrecognized namespace. No data view associated



Error Code	Error Message
1004	Access denied. Invalid principal or credentials
1005	Not authorized to perform current operation on selected data view
1006	Invalid parameter
1009	Unsupported operation
1010	Invalid session ID
1011	Target is not found
1095	Communication error while interacting with a Network Element
1096	Time-out expired during wait for answer from Network Element
1097	Failure during processing of the request
1098	Could not process request because of resource limitation
1099	System error
1101	External error
1103	License error
2001	Format error
2002	Unreasonable value
2005	Storage shortage in log data file

## 6.2 Subordinate ILF Error Codes

The following table covers the subordinate ILF error codes.

*Table 13 ILF Specific Error Codes*

Resp Code	Description	MO	Operation
36006	No such object. No data found in ILF.	SLFSubscription Subscription	G/S
36099	Other ILF Error.	SLFSubscription Subscription	G/S



## Reference List

- [1] *Library Overview*, 18/1553-CSH 109 628 Uen
- [2] *Generic CAI3G Interface 1.2*, 2/15519-FAY3020003 Uen