

Layered EIR Provisioning over CAI3G

Ericsson Dynamic Activation 1

INTERFACE DESCRIPTION

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1 Introduction

This document describes the interface exposed by Ericsson™ Dynamic Activation (EDA) for provisioning of EIR data. The interface exposes a number of Customers Service Orders (CSOs) that enables management of equipment, equipment status, and search orders EIR-related data stored in a Consolidated User Data Base (CUDB).

The exposed interface can be used by a Customer Administration System (CAS) or any other provisioning system.

1.1 Purpose and Scope

This document describes the supported Customers Service Orders (CSOs) in the CAI3G interface which is used for provisioning of EIR data.

CAI3G is an Ericsson propriety interface which 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. This document is not a tutorial of CAI3G, the document must be read together with the Generic CAI3G specification, which is described in *Generic CAI3G Interface 1.2*, Reference [2]

1.2 Target Group

The target groups for this document are as follows:

- System Integrator

For more information about the different target groups, see *Library Overview*, Reference [3].

1.3 Typographic Conventions

Typographic conventions are described in *Library Overview3*, Reference [3].

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

C	Create
S	Set
G	Get
D	Delete

1.4 Prerequisites

To use this document fully, users must meet the following prerequisites:

- Basic knowledge about the Dynamic Activation product
- Knowledge about *Generic CAI3G Interface 1.2*, Reference [2].

1.5 Namespaces

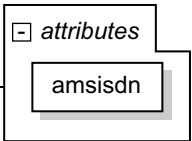



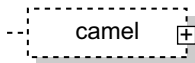
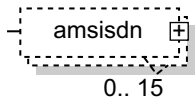
The following namespaces are referred to in this document:

- CAI3G 1.2 Namespace:
`http://schemas.ericsson.com/cai3g1.2/`
- EIR Provisioning Namespace:
`http://schemas.ericsson.com/ma/EIR/`


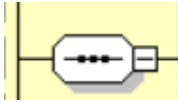
1.6 Legends

The following table shows the legends used in XML schema figures in this specification.

Table 1 Legends Used in XML Schema Figures in This Specification

Legend	Description
	XML attribute
	Optional XML element
	Choice icon
	Mandatory XML element
	Structured element
	Subobject element The occurrence of this element is 0–15.



Legend	Description
	<p>User-defined type</p> <p>This is not a standard XML schema type. It is introduced to describe MO schema structure more clearly. In practice, this type is to be replaced by the corresponding elements.</p>
	<p>Sequence icon</p> <p>A list of elements, the sequence order must be followed.</p>
<code>msisdn *</code>	<p>The “*” after <code>msisdn</code> indicates the element, such as <code>msisdn</code> here, can be used as an MOId.</p>

1.7 Operations

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

Table 2 EIR-FE Data Provisioning CSOs

MO	Operations			
	Create	Get	Set	Delete
Equipment	x	x	x	x
Equipment	x			x
Cloned Handset User	x	x	x	x
Mobile Station	x	x		x
SearchOrders	x	x	x	x
EquipmentStatus		x		
FixedSim	x	x		x

1.8 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/ma/`. 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, [Dynamic_Activation_WSDL_and_XSD_files.zip](#), to a local folder.
2. Unpack the zip file.

1.9 MOType

MOType is a plain text string based on the type `xs:string`. An MO type 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 MO type must follow the regular expression: `[A-Za-z][A-Za-z0-9]*`

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

1.10 MOId

MOId is an Extensible Markup Language (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 Create Equipment

This section covers the EIR-FE Equipment command `CreateEquipment`.

MOType

Equipment@http://schemas.ericsson.com/ma/EIR/

2.1 Request Data

2.1.1 Parameters

MOId

Note: The `Check Digit` in the IMEI value is not supported.

Table 3 Create Equipment MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

The parameters that are used in the operation are shown in Figure 1.

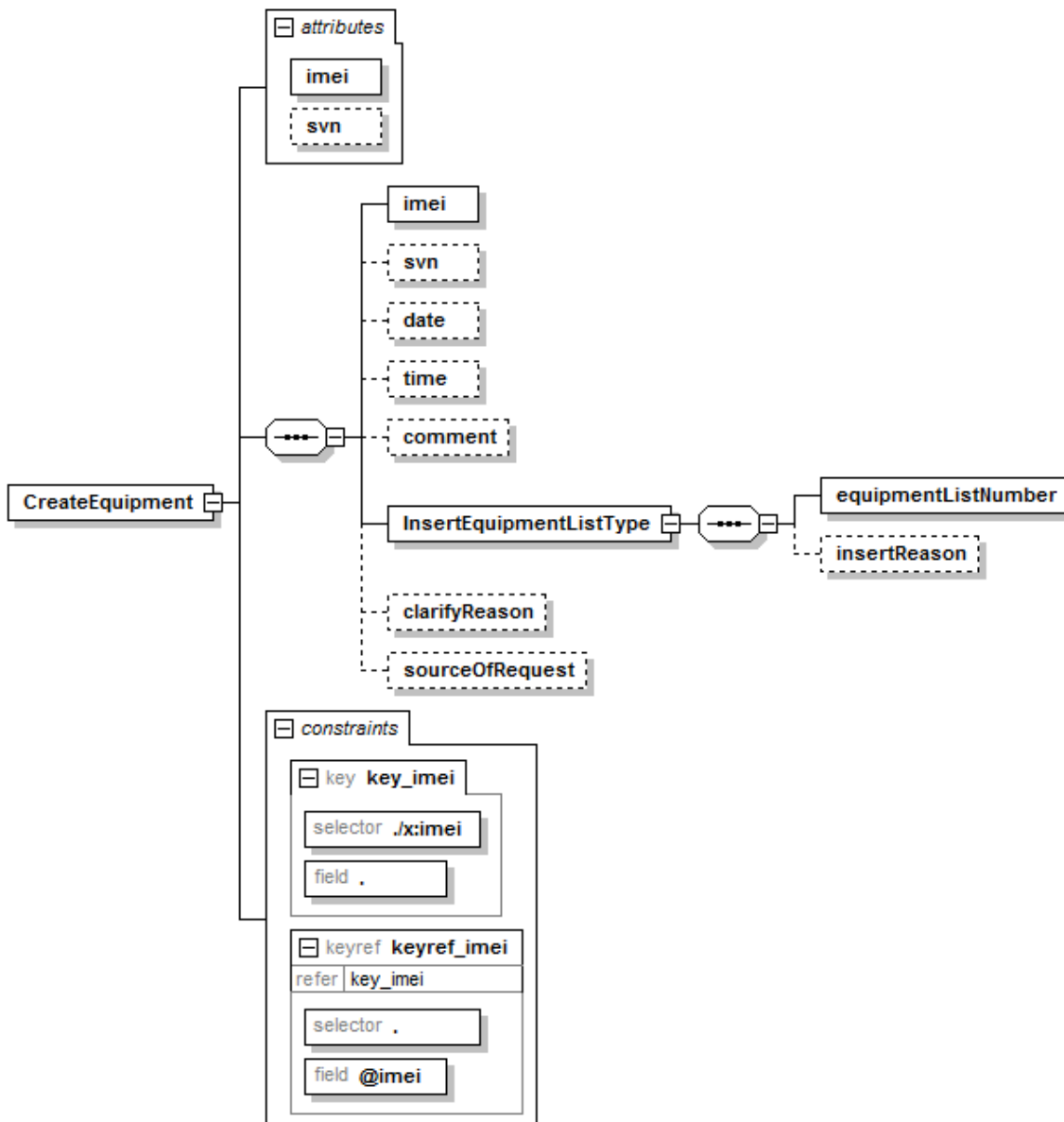


Figure 1 Parameters in Create Equipment

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

Note: The Check Digit in the IMEI value is not supported.



Table 4 Create Equipment MO Attributes

Parameter		Type	Occurrence	Description
imei		String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn		String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.
date		Date Format is yyyy-mm-dd.	Optional	This attribute contains the date when the equipment is created.
time		Time Format is hh:mm:ss.	Optional	This attribute contains the time when the equipment is created.
comment		String minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.
InsertEquipmentListType				
	equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains the list number for which the equipment is to be defined.
	insertReason	String Enumeration value="10" Enumeration value="11" Enumeration value="16" Enumeration value="23" Enumeration value="25"	Optional	This attribute contains the reason for creating the equipment ⁽¹⁾ 10 = Faulty or broken 11 = Stolen or lost 16 = Duplicated IMEI. The IMEI has been copied to several different mobiles. 23 = Third-party request to add in grey/black list (for example, law enforcement). 25 = Unspecified - migrated from CEIR. Only valid for migration.
clarifyReason		String maxLength value="20"	Optional	This attribute contains an explanatory text stating the reason for creating the equipment.
sourceOfRequest		String maxLength value="25"	Optional	This attribute contains the name of a third party that initiated the creation of the equipment.

(1) Default value is 11

2.2 Examples

Request Example

This section gives an example of a `CreateEquipment` request message, as shown in Example 2.



```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Create>
      <cai3:MOTYPE>Equipment@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOTYPE>
    <cai3:MOId>
      <eir:imei>55555987654321</eir:imei>
      <eir:svn>16</eir:svn>
    </cai3:MOId>
    <cai3:MOAttributes>
      <eir:CreateEquipment imei="55555987654321" svn="16">
        <eir:imei>55555987654321</eir:imei>
        <eir:svn>16</eir:svn>
        <eir:date>2011-01-19</eir:date>
        <eir:time>13:50:00</eir:time>
        <eir:comment>A comment</eir:comment>
        <eir:InsertEquipmentListType>
          <eir:equipmentListNumber>2</eir:equipmentListNumber>
          <eir:insertReason>23</eir:insertReason>
        </eir:InsertEquipmentListType>
        <eir:clarifyReason>A clarify reason</eir:clarifyReason>
        <eir:sourceOfRequest>A source of request
      </eir:sourceOfRequest>
      </eir:CreateEquipment>
    </cai3:MOAttributes>
    </cai3:Create>
  </soapenv:Body>
</soapenv:Envelope>

```

Example 2 Create Equipment Request Message

Create an EIR Equipment active in list 12.

Response Example

This section gives an example of a CreateEquipment response message, as shown in Example 3.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:CreateResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imei xmlns:eir="http://schemas.ericsson.com/ma/EIR/">55555987654321</eir:imei>
        <eir:svn xmlns:eir="http://schemas.ericsson.com/ma/EIR/">16</eir:svn>
      </ns2:MOId>
    </ns2:CreateResponse>
  </S:Body>
</S:Envelope>

```

Example 3 Create Equipment Response Message

3 Get Equipment

This section covers the EIR-FE Equipment command `GetEquipment`.

MOType

`Equipment@http://schemas.ericsson.com/ma/EIR/`

3.1 Request Data

3.1.1 Parameters

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

Note: The `Check Digit` in the IMEI value is not supported.

Table 5 Get Equipment MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

3.2 Response Data

3.2.1 Parameters

MOId

N/A

The parameters that are used in the operation are shown in Figure 2.

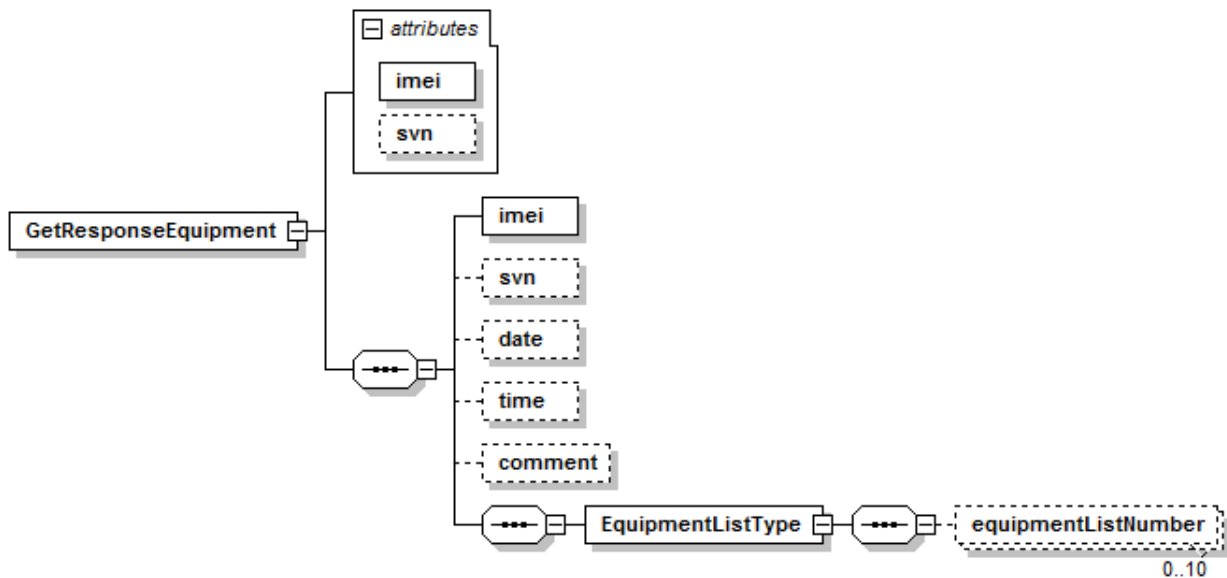


Figure 2 Parameters in Get Response Equipment

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

Note: The Check Digit in the IMEI value is not supported.

Table 6 Get Response Equipment MO Attributes

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. SVN value 99 is reserved for future use.
date	Date Format is yyyy-mm-dd.	Optional	This attribute contains the date when the equipment is created.
time	Time Format is hh:mm:ss.	Optional	This attribute contains the time when the equipment is created.
comment	string minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.
equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Optional	This attribute contains the lists for which the equipment is defined. One equipment can be included in up to 10 lists.



3.3 Examples

Request Example

This section gives an example of a GetEquipment request message, as shown in Example 4.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>Equipment@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
      <cai3:MOId>
        <eir:imei>55555987654321</eir:imei>
        <eir:svn>16</eir:svn>
      </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 4 Get Equipment Request Message

Get EIR Equipment data with IMEI number 55555987654321.

Response Example

This section gives an example of a GetEquipment response message, as shown in Example 5.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:GetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOAttributes>
        <ns:GetResponseEquipment imei="55555987654321"
          svn="16" xmlns:ns="http://schemas.ericsson.com/ma/EIR/">
          <ns:imei>55555987654321</ns:imei>
          <ns:svn>16</ns:svn>
          <ns:date>2011-01-19</ns:date>
          <ns:time>13:50:00</ns:time>
          <ns:comment>A comment</ns:comment>
          <ns:EquipmentListType>
            <ns:equipmentListNumber>2</ns:equipmentListNumber>
          </ns:EquipmentListType>
        </ns:GetResponseEquipment>
      </ns2:MOAttributes>
    </ns2:GetResponse>
  </S:Body>
</S:Envelope>
```

Example 5 Get Equipment Response Message



4 Set Equipment

This section covers the EIR-FE Equipment command `SetEquipment`.

MOType

Equipment@http://schemas.ericsson.com/ma/EIR/

4.1 Request Data

4.1.1 Parameters

MOId

Note: The Check Digit in the IMEI value is not supported.

Table 7 Set Equipment MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

The parameters that are used in the operation are shown in Figure 3.

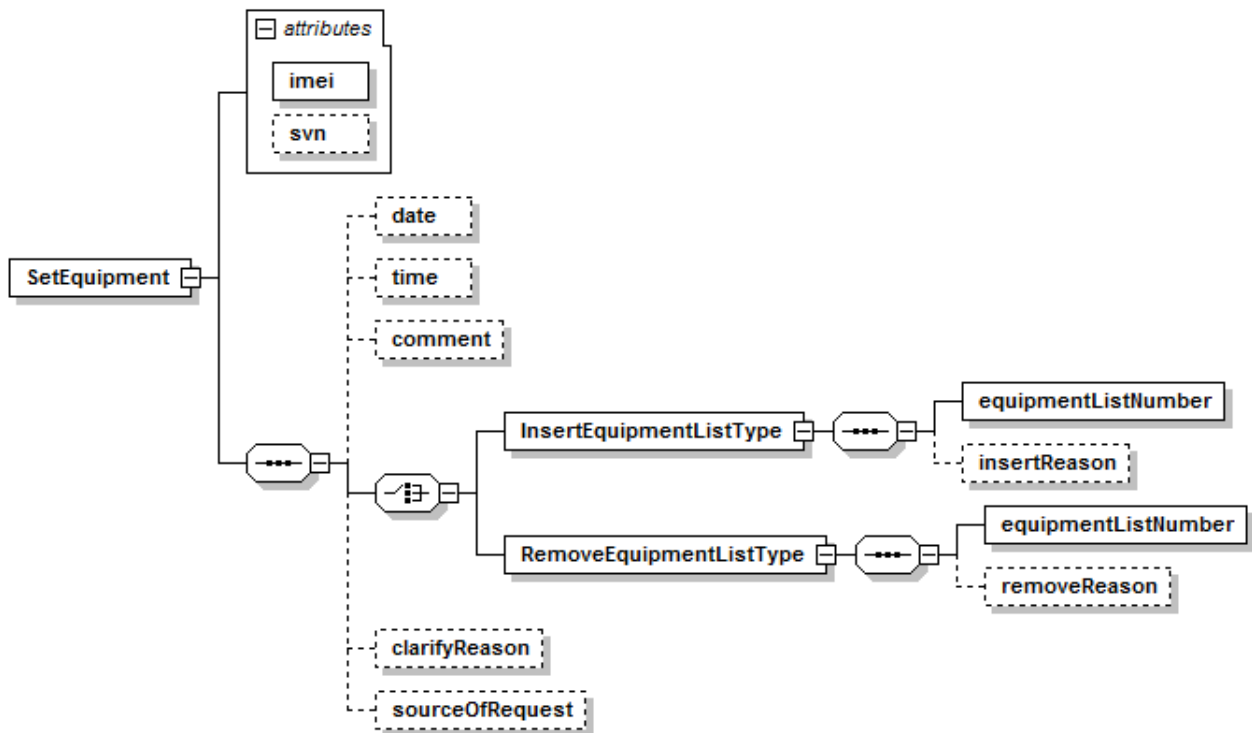


Figure 3 Parameters in Set Equipment

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

Table 8 Set Equipment MO Attributes

Parameter	Type	Occurrence	Description
date	Date Format is yyyy-mm-dd.	Optional	This attribute contains the date when the equipment is created.
time	Time Format is hh:mm:ss.	Optional	This attribute contains the time when the equipment is created.
comment	String minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.
InsertEquipmentListType ⁽¹⁾			



Table 8 Set Equipment MO Attributes

Parameter		Type	Occurrence	Description
	equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains the list number for which the equipment is to be defined.
	insertReason	String Enumeration value="10" Enumeration value="11" Enumeration value="16" Enumeration value="23" Enumeration value="25"	Optional	This attribute contains the reason for creating the equipment ⁽²⁾ 10 = Faulty or broken 11 = Stolen or lost 16 = Duplicated IMEI. The IMEI has been copied to several different mobiles. 23 = Third-party request to add in grey/black list (for example, law enforcement). 25 = Unspecified - migrated from CEIR. Only valid for migration.
RemoveEquipmentListType ⁽¹⁾				
	equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains the list number for which the equipment is to be defined.
	removeReason	String Enumeration value="14" Enumeration value="18" Enumeration value="20" Enumeration value="22" Enumeration value="24"	Optional	This attribute contains the reason for creating the equipment ⁽³⁾ 14 = Found 18 = Repaired 20 = Unique IMEI. IMEI not duplicated any more. 22 = Aged IMEI. Is no longer on grey/black list because of the passage of time. 24 = Third-party request to remove from grey/black list.
clarifyReason		String maxLength value="20"	Optional	This attribute contains an explanatory text stating the reason for creating the equipment.
sourceOfRequest		String maxLength value="25"	Optional	This attribute contains the name of a third party that initiated the creation of the equipment.

(1) Only one can be selected

(2) Default value is 11

(3) Default value is 14

4.2 Examples

Request Example

This section gives an example of a `SetEquipment` request message, as shown in Example 6.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Set>
      <cai3:MOTYPE>Equipment@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOTYPE>
    <cai3:MOId>
      <eir:imei>55555987654321</eir:imei>
      <eir:svn>16</eir:svn>
    </cai3:MOId>
    <cai3:MOAttributes>
      <eir:SetEquipment imei="55555987654321" svn="16">
        <eir:date>2011-02-12</eir:date>
        <eir:time>11:40:00</eir:time>
        <eir:comment>Set comment</eir:comment>
        <eir:InsertEquipmentListType>
          <eir:equipmentListNumber>9</eir:equipmentListNumber>
          <eir:insertReason>23</eir:insertReason>
        </eir:InsertEquipmentListType>
        <eir:clarifyReason>Set reason</eir:clarifyReason>
        <eir:sourceOfRequest>Set source</eir:sourceOfRequest>
      </eir:SetEquipment>
    </cai3:MOAttributes>
    </cai3:Set>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 6 Set Equipment Request Message

Set and create EIR Equipment active in list 19.

Note: The attributes date, time, and comment are updated if they are included in the request.

Response Example

This section gives an example of a SetEquipment response message, as shown in Example 7.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:SetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/" />
  </S:Body>
</S:Envelope>
```

Example 7 Set Equipment Response Message



5 Delete Equipment

This section covers the EIR-FE Equipment command `DeleteEquipment`.

MOType

Equipment@http://schemas.ericsson.com/ma/EIR/

5.1 Request Data

5.1.1 Parameters

MOId

Note: The Check Digit in the IMEI value is not supported.

Table 9 Delete Equipment MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

The parameters that are used in the operation are shown in Figure 4.

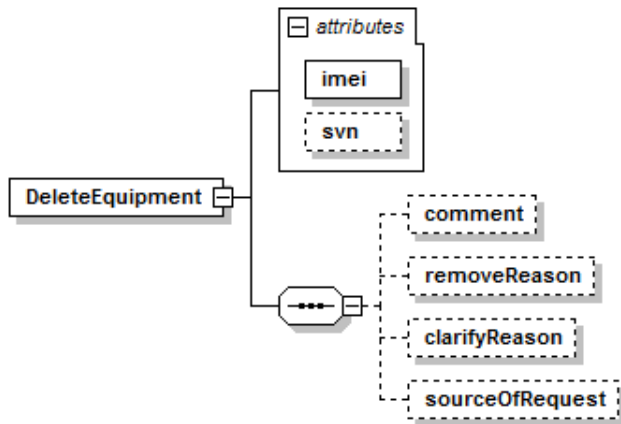


Figure 4 Parameters in Delete Equipment

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

Table 10 Delete Equipment MO Attributes

Parameter	Type	Occurrence	Description
comment	String minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.
removeReason	String Enumeration value="14" Enumeration value="18" Enumeration value="20" Enumeration value="22" Enumeration value="24"	Optional	This attribute contains the reason for creating the equipment ⁽¹⁾ 14 = Found 18 = Repaired 20= Unique IMEI. IMEI not duplicated any more. 22 = Aged IMEI. Is no longer on grey/black list because of the passage of time. 24 = Third-party request to remove from grey/black list.
clarifyReason	String maxLength value="20"	Optional	This attribute contains an explanatory text stating the reason for creating the equipment.
sourceOfRequest	String maxLength value="25"	Optional	This attribute contains the name of a third party that initiated the creation of the equipment.

(1) Default value is 14

5.2 Examples

Request Example

This section gives an example of a DeleteEquipment request message, as shown in Example 8.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Delete>
      <cai3:MOType>Equipment@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
      <cai3:MOId>
        <eir:imei>55555987654321</eir:imei>
        <eir:svn>16</eir:svn>
      </cai3:MOId>
    </cai3:Delete>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 8 Delete Equipment Request Message

Remove EIR Equipment with IMEI number 55555987654321.

Response Example

This section gives an example of a DeleteEquipment response message, as shown in Example 9.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:DeleteResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imei xmlns:eir="http://schemas.ericsson.com/ma/EIR/">55555987654321
        </eir:imei>
        <eir:svn xmlns:eir="http://schemas.ericsson.com/ma/EIR/">16</eir:svn>
      </ns2:MOId>
    </ns2:DeleteResponse>
  </S:Body>
</S:Envelope>
```

Example 9 Delete Equipment Response Message





6 Create Equipments

This section covers the EIR-FE Equipment command `CreateEquipments`.

The `CreateEquipments` create one or more equipments in the CUDB. Maximum ten equipments can be created.

MOType

`Equipments@http://schemas.ericsson.com/ma/EIR/`

6.1 Request Data

6.1.1 Parameters

MOId

Note: The Check Digit in the IMEI value is not supported, `imeiFrom`, or `imeiTo`.

Table 11 Create Equipments MO Id

Parameter	Type	Occurrence	Description
<code>imeiFrom</code>	String Pattern value="[0-9]*" minLength value=14 maxLength value=14	Mandatory	This attribute contains the IMEI associated with the first equipment.
<code>imeiTo</code>	String Pattern value="[0-9]*" minLength value=14 maxLength value=14	Mandatory	This attribute contains the IMEI associated with the last equipment.
<code>svn</code>	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

The parameters that are used in the operation are shown in Figure 5.

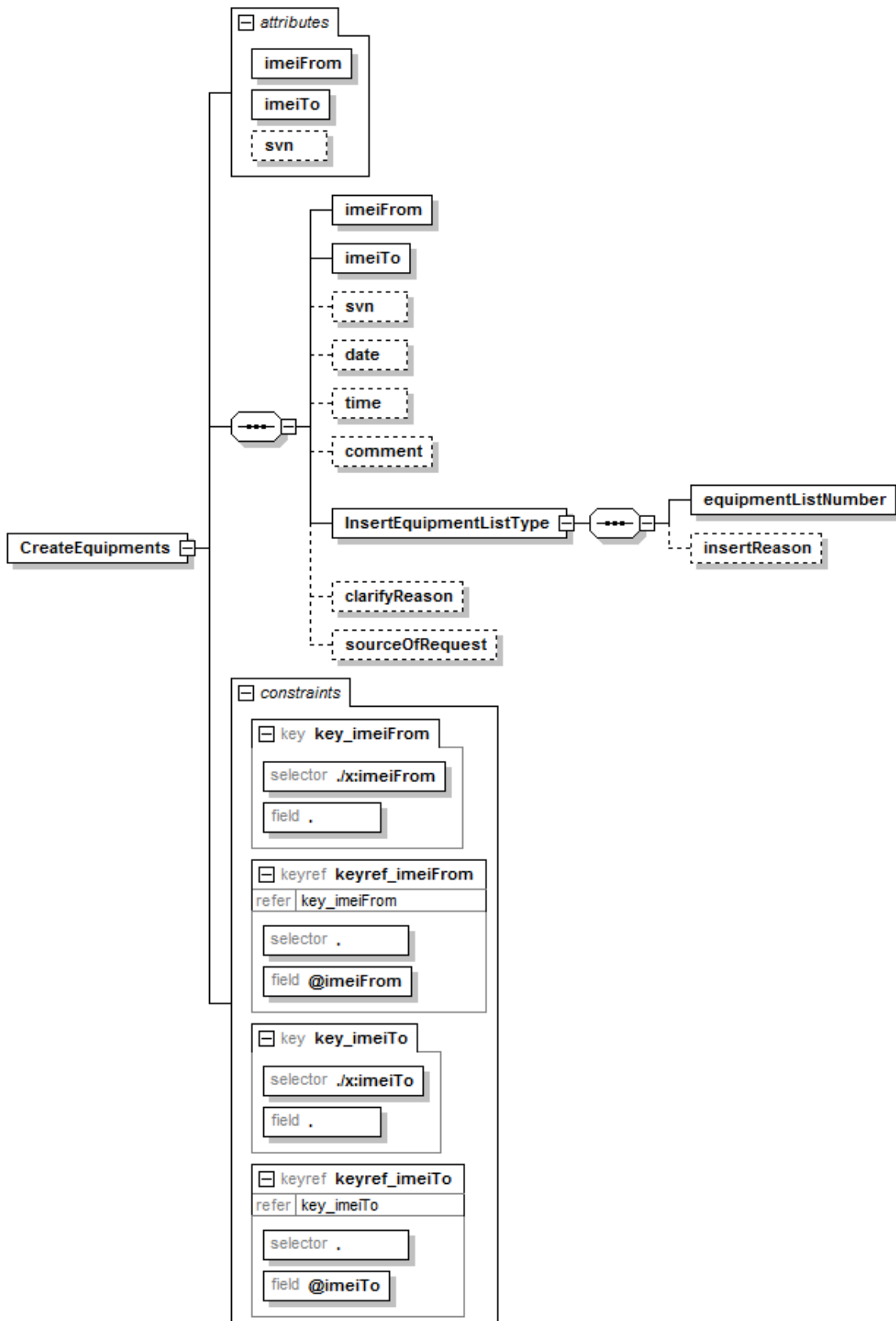


Figure 5 Parameters in Create Equipments



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

Note: The Check Digit in the IMEI value is not supported, `imeiFrom`, or `imeiTo`.

Table 12 *Create Equipments MO Attributes*

Parameter		Type	Occurrence	Description
imeiFrom		String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the first equipment.
imeiTo		String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the last equipment.
svn		String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.
date		Date Format is yyyy-mm-dd.	Optional	This attribute contains the date when the equipment is created.
time		Time Format is hh:mm:ss.	Optional	This attribute contains the time when the equipment is created.
comment		String minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.
InsertEquipmentListType				
	equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains the list number for which the equipment is to be defined.
	insertReason	String Enumeration value="10" Enumeration value="11" Enumeration value="16" Enumeration value="23" Enumeration value="25"	Optional	This attribute contains the reason for creating the equipment ⁽¹⁾ 10 = Faulty or broken 11 = Stolen or lost 16 = Duplicated IMEI. The IMEI has been copied to several different mobiles. 23 = Third-party request to add in grey/black list (for example, law enforcement). 25 = Unspecified - migrated from CEIR. Only valid for migration.
clarifyReason		String maxLength value="20"	Optional	This attribute contains an explanatory text stating the reason for creating the equipment.
sourceOfRequest		String maxLength value="25"	Optional	This attribute contains the name of a third party that initiated the creation of the equipment.

(1) Default value is 11



6.2 Examples

Request Example

This section gives an example of a `CreateEquipments` request message, as shown in Example 10.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Create>
      <cai3:MOType>Equipments@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
    <cai3:MOId>
      <eir:imeiFrom>10000000000100</eir:imeiFrom>
      <eir:imeiTo>10000000000109</eir:imeiTo>
      <eir:svn>55</eir:svn>
    </cai3:MOId>
    <cai3:MOAttributes>
      <eir:CreateEquipments
        imeiFrom="10000000000100" imeiTo="10000000000109" svn="55">
        <eir:imeiFrom>10000000000100</eir:imeiFrom>
        <eir:imeiTo>10000000000109</eir:imeiTo>
        <eir:svn>55</eir:svn>
        <eir:InsertEquipmentListType>
          <eir:equipmentListNumber>2</eir:equipmentListNumber>
        </eir:InsertEquipmentListType>
      </eir:CreateEquipments>
    </cai3:MOAttributes>
  </cai3:Create>
</soapenv:Body>
</soapenv:Envelope>
```

Example 10 Create Equipments Request Message

Create ten EIR Equipments active in list 12.

Response Example

This section gives an example of a `CreateEquipments` response message, as shown in Example 11.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:CreateResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imeiFrom xmlns:eir="http://schemas.ericsson.com/ma/EIR/">10000000000100
        </eir:imeiFrom>
        <eir:imeiTo xmlns:eir="http://schemas.ericsson.com/ma/EIR/">10000000000109
        </eir:imeiTo>
        <eir:svn xmlns:eir="http://schemas.ericsson.com/ma/EIR/">55</eir:svn>
      </ns2:MOId>
    </ns2:CreateResponse>
  </S:Body>
</S:Envelope>
```

Example 11 Create Equipments Response Message



7 Delete Equipments

This section covers the EIR-FE Equipment command `DeleteEquipments`.

The `DeleteEquipments` deletes one or more equipments in the CUDB. Maximum ten equipments can be deleted.

MOType

`Equipments@http://schemas.ericsson.com/ma/EIR/`

7.1 Request Data

7.1.1 Parameters

MOId

Note: The `Check Digit` in the IMEI value is not supported, `imeiFrom`, or `imeiTo`.

Table 13 Delete Equipments MO Id

Parameter	Type	Occurrence	Description
imeiFrom	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the first equipment.
imeiTo	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the last equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

The parameters that are used in the operation are shown in Figure 6.

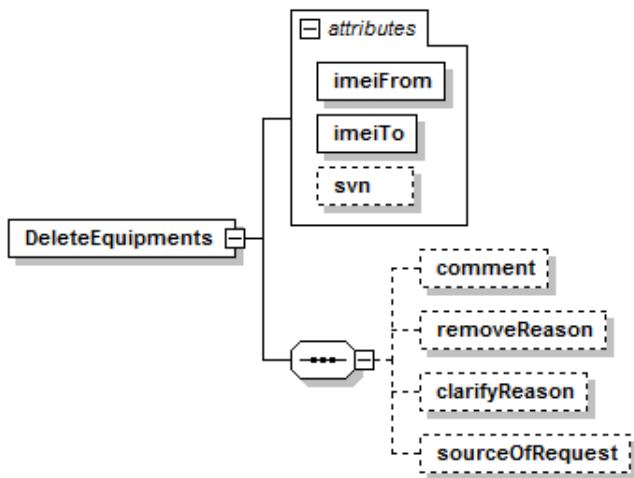


Figure 6 Parameters in Delete Equipments

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

Table 14 Delete Equipments MO Attributes

Parameter	Type	Occurrence	Description
comment	String minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.
removeReason	String Enumeration value = "14" Enumeration value = "18" Enumeration value = "20" Enumeration value = "22" Enumeration value = "24"	Optional	This attribute contains the reason for removing the equipment. (1) 14 = Found 18 = Repaired 20= Unique IMEI. IMEI not duplicated any more. 22 = Aged IMEI. Is no longer on grey/black list because of the passage of time. 24 = Third-party request to remove from grey/black list.
clarifyReason	String maxLength value="20"	Optional	This attribute contains an explanatory text stating the reason for deleting the equipment.
sourceOfRequest	String maxLength value="25"	Optional	This attribute contains the name of a third party that initiated the deletion of the equipment.

(1) Default value is 14

7.2 Examples

Request Example

This section gives an example of a DeleteEquipments request message, as shown in Example 12.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>sessionid_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Delete>
      <cai3:MOType>Equipments@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
    <cai3:MOId>
      <eir:imeiFrom>10000000000105</eir:imeiFrom>
      <eir:imeiTo>10000000000109</eir:imeiTo>
      <eir:svn>55</eir:svn>
    </cai3:MOId>
    <cai3:MOAttributes>
      <eir:DeleteEquipments>
        imeiFrom="10000000000105" imeiTo="10000000000109" svn="55">
        <eir:comment>Delete comment</eir:comment>
        <eir:removeReason>22</eir:removeReason>
        <eir:clarifyReason>Delete reason</eir:clarifyReason>
        <eir:sourceOfRequest>Delete source</eir:sourceOfRequest>
      </eir:DeleteEquipments>
    </cai3:MOAttributes>
    </cai3:Delete>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 12 Delete Equipments Request Message

Remove five EIR Equipments.

Response Example

This section gives an example of a DeleteEquipments response message, as shown in Example 13.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>sessionid_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:DeleteResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imeiFrom xmlns:eir="http://schemas.ericsson.com/ma/EIR/">10000000000105
        </eir:imeiFrom>
        <eir:imeiTo xmlns:eir="http://schemas.ericsson.com/ma/EIR/">10000000000109
        </eir:imeiTo>
        <eir:svn xmlns:eir="http://schemas.ericsson.com/ma/EIR/">55
        </eir:svn>
      </ns2:MOId>
    </ns2:DeleteResponse>
  </S:Body>
</S:Envelope>
```

Example 13 Delete Equipments Response Message





8 Create Cloned Handset User

This section covers the EIR-FE Cloned Handset User command `CreateClonedHandsetUser`.

MOType

`ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/`

8.1 Request Data

8.1.1 Parameters

MOId

Table 15 Create Cloned Handset User MO Id

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment.

MOAttributes

The parameters that are used in the operation are shown in Figure 7.

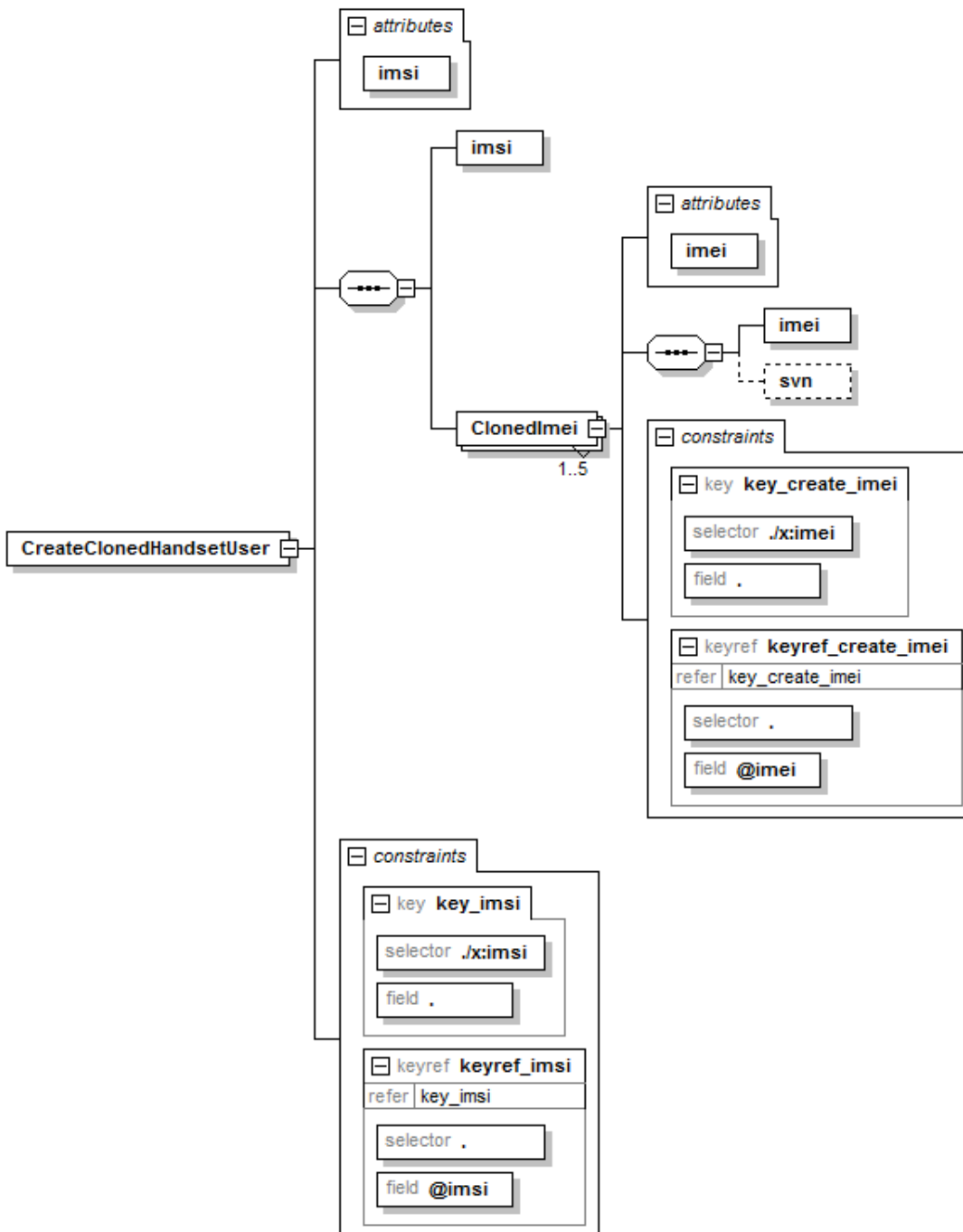


Figure 7 Parameters in Create Cloned Handset User

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

Note: The Check Digit in the IMEI value is not supported.



Table 16 Create Cloned Handset User MO Attributes

Parameter		Type	Occurrence	Description
imsi		String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment.
ClonedImei		Sub MO	Mandatory	Maximum five cloned IMEIs can be defined
	imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
	svn	String Pattern value="[0-9]{2}"	Optional	<p>This attribute contains the Software Version Number associated with the equipment.</p> <p>If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface).</p> <p>SVN value 99 is reserved for future use.</p>

8.2 Examples

Request Example

This section gives an example of a `CreateClonedHandsetUser` request message, as shown in Example 14.



```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Create>
      <cai3:MOType>ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imsi>1538567</eir:imsi>
      </cai3:MOId>
      <cai3:MOAttributes>
        <eir:CreateClonedHandsetUser imsi="1538567">
          <eir:imsi>1538567</eir:imsi>
          <eir:ClonedImei imei="12345678915843">
            <eir:imei>12345678915843</eir:imei>
            <eir:svn>66</eir:svn>
          </eir:ClonedImei>
          <eir:ClonedImei imei="12345678915844">
            <eir:imei>12345678915844</eir:imei>
            <eir:svn>67</eir:svn>
          </eir:ClonedImei>
          <eir:ClonedImei imei="12345678915845">
            <eir:imei>12345678915845</eir:imei>
            <eir:svn>68</eir:svn>
          </eir:ClonedImei>
        </eir:CreateClonedHandsetUser>
      </cai3:MOAttributes>
    </cai3:Create>
  </soapenv:Body>
</soapenv:Envelope>

```

Example 14 Create Cloned Handset User Request Message

Create an EIR ClonedHandsetUser with three ClonedImei.

Response Example

This section gives an example of a CreateClonedHandsetUser response message, as shown in Example 15.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:CreateResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imsi xmlns:eir="http://schemas.ericsson.com/ma/EIR/">1538567
        </eir:imsi>
      </ns2:MOId>
    </ns2:CreateResponse>
  </S:Body>
</S:Envelope>

```

Example 15 Create Cloned Handset User Response Message



9 Get Cloned Handset User

This section covers the EIR-FE Cloned Handset User command `GetClonedHandsetUser`.

MOType

`ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/`

9.1 Request Data

9.1.1 Parameters

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

Table 17 Get Cloned Handset User MO Id

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment.

9.2 Response Data

9.2.1 Parameters

MOId

N/A

The parameters that are used in the operation are shown in Figure 8.

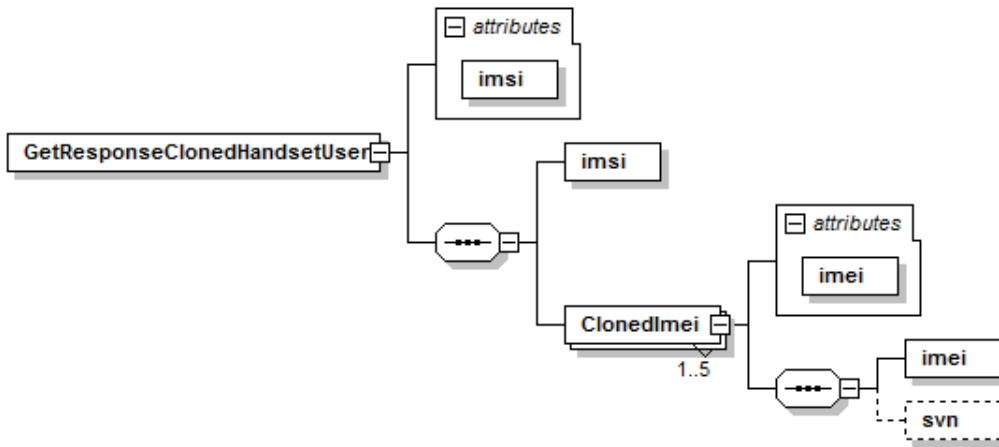


Figure 8 Parameters in Get Response Cloned Handset User

The following table covers the parameters that are received in a `GetClonedHandsetUser` response.

Note: The Check Digit in the IMEI value is not supported.

Table 18 Get Response Cloned Handset User MO Attributes

Parameter		Type	Occurrence	Description
imsi		String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment.
ClonedImei		Sub MO	Mandatory	Maximum five cloned IMEIs can be defined
	imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
	svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. SVN value 99 is reserved for future use.

9.3 Examples

Request Example

This section gives an example of a `GetClonedHandsetUser` request message, as shown in Example 16.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imsi>1538567</eir:imsi>
      </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 16 *Get Cloned Handset User Request Message*

Get the EIR ClonedHandsetUser data with IMSI number 1538567.

Response Example

This section gives an example of a GetClonedHandsetUser response message, as shown in Example 17.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:GetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOAttributes>
        <ns:GetResponseClonedHandsetUser
          imsi="1538567" xmlns:ns="http://schemas.ericsson.com/ma/EIR/">
          <ns:imsi>1538567</ns:imsi>
          <ns:ClonedImei imei="12345678915843">
            <ns:imei>12345678915843</ns:imei>
            <ns:svn>66</ns:svn>
          </ns:ClonedImei>
          <ns:ClonedImei imei="12345678915844">
            <ns:imei>12345678915844</ns:imei>
            <ns:svn>67</ns:svn>
          </ns:ClonedImei>
          <ns:ClonedImei imei="12345678915845">
            <ns:imei>12345678915845</ns:imei>
            <ns:svn>68</ns:svn>
          </ns:ClonedImei>
        </ns:GetResponseClonedHandsetUser>
      </ns2:MOAttributes>
    </ns2:GetResponse>
  </S:Body>
</S:Envelope>
```

Example 17 *Get Cloned Handset User Response Message*





10 Set Cloned Handset User

This section covers the EIR-FE Cloned Handset User command `SetClonedHandsetUser`.

MOType

`ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/`

10.1 Request Data

10.1.1 Parameters

MOId

Table 19 Set Cloned Handset User MO Id

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment.

MOAttributes

The parameters that are used in the operation are shown in Figure 9.

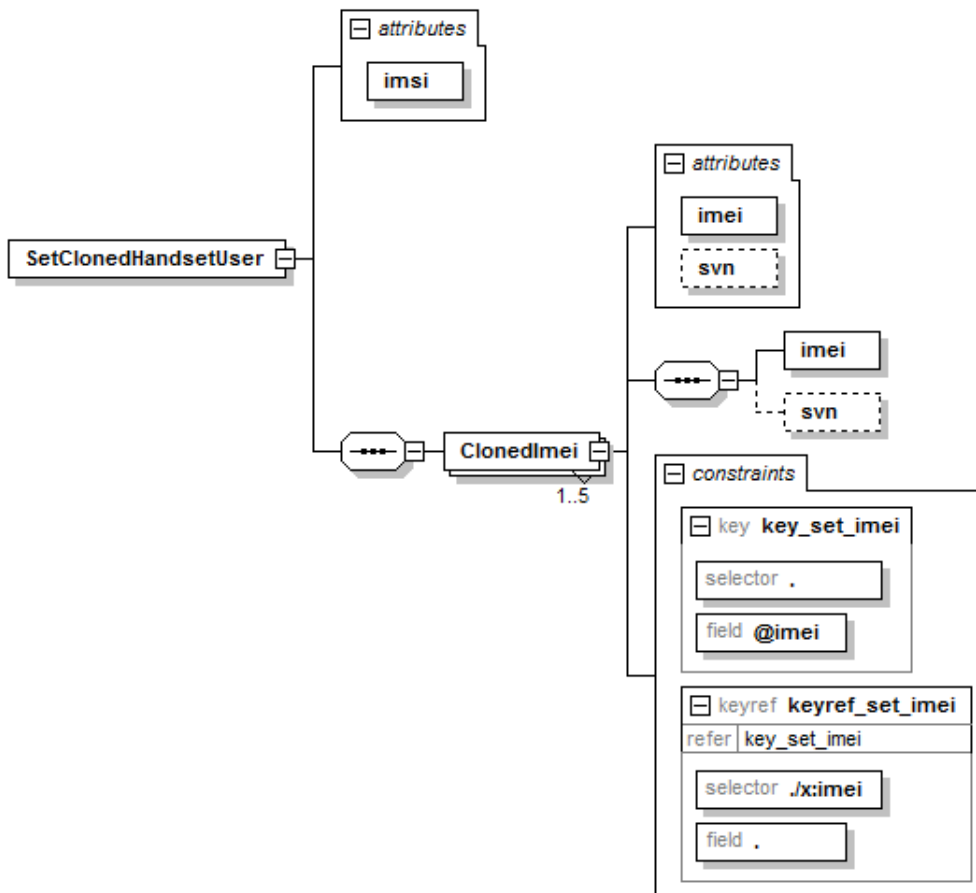


Figure 9 Parameters in Set Cloned Handset User

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

Note: The Check Digit in the IMEI value is not supported.

Table 20 Set Cloned Handset User MO Attributes

Parameter		Type	Occurrence	Description
ClonedImei		Sub MO [nillable]	Mandatory	Maximum five cloned IMEIs can be defined
	imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
	svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.



10.2 Examples

Request Example

This section gives an example of a SetClonedHandsetUser request message, as shown in Example 18.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Set>
      <cai3:MOType>ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
      <cai3:MOId>
        <eir:imsi>1538567</eir:imsi>
      </cai3:MOId>
      <cai3:MOAttributes>
        <eir:SetClonedHandsetUser imsi="1538567">
          <eir:ClonedImei imei="12345678915846">
            <eir:imei>12345678915846</eir:imei>
            <eir:svn>69</eir:svn>
          </eir:ClonedImei>
        </eir:SetClonedHandsetUser>
      </cai3:MOAttributes>
    </cai3:Set>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 18 Set Cloned Handset User Request Message

Set and create EIR ClonedHandsetUser with additional one ClonedImei.

Response Example

This section gives an example of a SetClonedHandsetUser response message, as shown in Example 19.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:SetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/" />
  </S:Body>
</S:Envelope>
```

Example 19 Set Cloned Handset User Response Message





11 Delete Cloned Handset User

This section covers the EIR-FE Cloned Handset User command `DeleteClonedHandsetUser`.

MOType

`ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/`

11.1 Request Data

11.1.1 Parameters

MOId

Table 21 Delete Cloned Handset User MO Id

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment.

MOAttributes

N/A

11.2 Examples

Request Example

This section gives an example of a `DeleteClonedHandsetUser` request message, as shown in Example 20.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Delete>
      <cai3:MOType>ClonedHandsetUser@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
    <cai3:MOId>
      <eir:imsi>1538567</eir:imsi>
    </cai3:MOId>
    </cai3:Delete>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 20 Delete Cloned Handset User Request Message

Delete EIR ClonedHandsetUser with IMSI number 1538567.

Response Example

This section gives an example of a DeleteClonedHandsetUser response message, as shown in Example 21.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:DeleteResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imsi xmlns:eir="http://schemas.ericsson.com/ma/EIR/">1538567
      </eir:imsi>
      </ns2:MOId>
    </ns2:DeleteResponse>
  </S:Body>
</S:Envelope>
```

Example 21 Delete Cloned Handset User Response Message

12 Create Mobile Station

This section covers the EIR-FE Mobile Station command `CreateMobileStation`.

MOType

`MobileStation@http://schemas.ericsson.com/ma/EIR/`

12.1 Request Data

12.1.1 Parameters

MOId

Note: The `Check Digit` in the IMEI value is not supported.

Table 22 Create Mobile Station MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

The parameters that are used in the operation are shown in Figure 10.

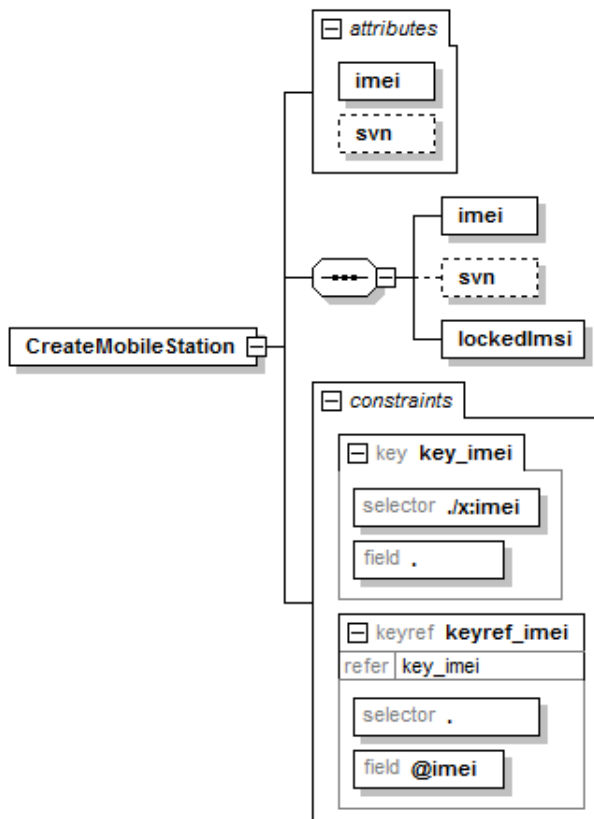


Figure 10 Parameters in Create Mobile Station

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

Note: The Check Digit in the IMEI value is not supported.

Table 23 Create Mobile Station MO Attributes

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.
lockedImsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI that is locked to the equipment.



12.2 Examples

Request Example

This section gives an example of a CreateMobileStation request message, as shown in Example 22.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Create>
      <cai3:MOType>MobileStation@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
      <cai3:MOId>
        <eir:imei>12333333333333</eir:imei>
      </cai3:MOId>
      <cai3:MOAttributes>
        <eir>CreateMobileStation imei="12333333333333">
          <eir:imei>12333333333333</eir:imei>
          <eir:lockedImsi>111111111</eir:lockedImsi>
        </eir>CreateMobileStation>
      </cai3:MOAttributes>
    </cai3:Create>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 22 Create Mobile Station Request Message

Create an EIR MobileStation with IMEI number 12333333333333 and lockedImsi 111111111.

Response Example

This section gives an example of a CreateMobileStation response message, as shown in Example 23.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:CreateResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imei xmlns:eir="http://schemas.ericsson.com/ma/EIR/">12333333333333
        </eir:imei>
      </ns2:MOId>
    </ns2:CreateResponse>
  </S:Body>
</S:Envelope>
```

Example 23 Create Mobile Station Response Message



13 Get Mobile Station

This section covers the EIR-FE Mobile Station command `GetMobileStation`.

MOType

`MobileStation@http://schemas.ericsson.com/ma/EIR/`

13.1 Request Data

13.1.1 Parameters

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

Note: The `Check Digit` in the IMEI value is not supported.

Table 24 Get Mobile Station MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

13.2 Response Data

13.2.1 Parameters

MOId

N/A

The parameters that are used in the operation are shown in Figure 11.

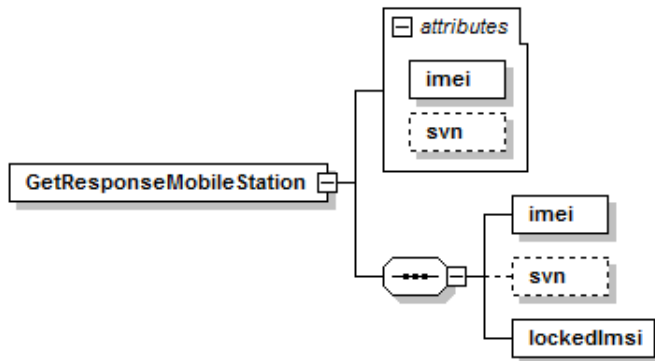


Figure 11 Parameters in Get Response Mobile Station

The following table covers the parameters that are received in a GetMobileStation response.

Note: The Check Digit in the IMEI value is not supported.

Table 25 Get Response Mobile Station MO Attributes

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. SVN value 99 is reserved for future use.
lockedImei	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI that is locked to the equipment.

13.3 Examples

Request Example

This section gives an example of a GetMobileStation request message, as shown in Example 24.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>MobileStation@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
    <cai3:MOId>
      <eir:imei>12333333333333</eir:imei>
    </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 24 *Get Mobile Station Request Message*

Get EIR MobileStation data with IMEI number 12333333333333

Response Example

This section gives an example of a GetMobileStation response message, as shown in Example 25.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:GetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOAttributes>
        <ns:GetResponseMobileStation imei="12333333333333"
          xmlns:ns="http://schemas.ericsson.com/ma/EIR/">
          <ns:imei>12333333333333</ns:imei>
          <ns:lockedImsi>111111111</ns:lockedImsi>
        </ns:GetResponseMobileStation>
      </ns2:MOAttributes>
    </ns2:GetResponse>
  </S:Body>
</S:Envelope>
```

Example 25 *Get Mobile Station Response Message*





14 Delete Mobile Station

This section covers the EIR-FE Mobile Station command `DeleteMobileStation`.

MOType

`MobileStation@http://schemas.ericsson.com/ma/EIR/`

14.1 Request Data

14.1.1 Parameters

MOId

Note: The `Check Digit` in the IMEI value is not supported.

Table 26 Delete Mobile Station MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

MOAttributes

N/A

14.2 Examples

Request Example

This section gives an example of a `DeleteMobileStation` request message, as shown in Example 26.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Delete>
      <cai3:MOType>MobileStation@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imei>1233333333333</eir:imei>
      </cai3:MOId>
    </cai3:Delete>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 26 Delete Mobile Station Request Message

Delete EIR MobileStation with IMEI number 1233333333333

Response Example

This section gives an example of a DeleteMobileStation response message, as shown in Example 27.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:DeleteResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imei xmlns:eir="http://schemas.ericsson.com/ma/EIR/">1233333333333</eir:imei>
      </ns2:MOId>
    </ns2:DeleteResponse>
  </S:Body>
</S:Envelope>
```

Example 27 Delete Mobile Station Response Message



15 Create Search Order

This section covers the EIR-FE Search Order command `CreateSearchOrder`.

MOType

`SearchOrder@http://schemas.ericsson.com/ma/EIR/`

15.1 Request Data

15.1.1 Parameters

MOId

Table 27 Create Search Order MO Id

Parameter	Type	Occurrence	Description
imsiPrefix	String Pattern value="[0-9]*!Default t" minLength value="2" maxLength value="15"	Mandatory	This attribute contains the IMSI ⁽¹⁾ of the equipment being searched for.

(1) A default search order must be present and cannot be created.

MOAttributes

The parameters that are used in the operation are shown in Figure 12.

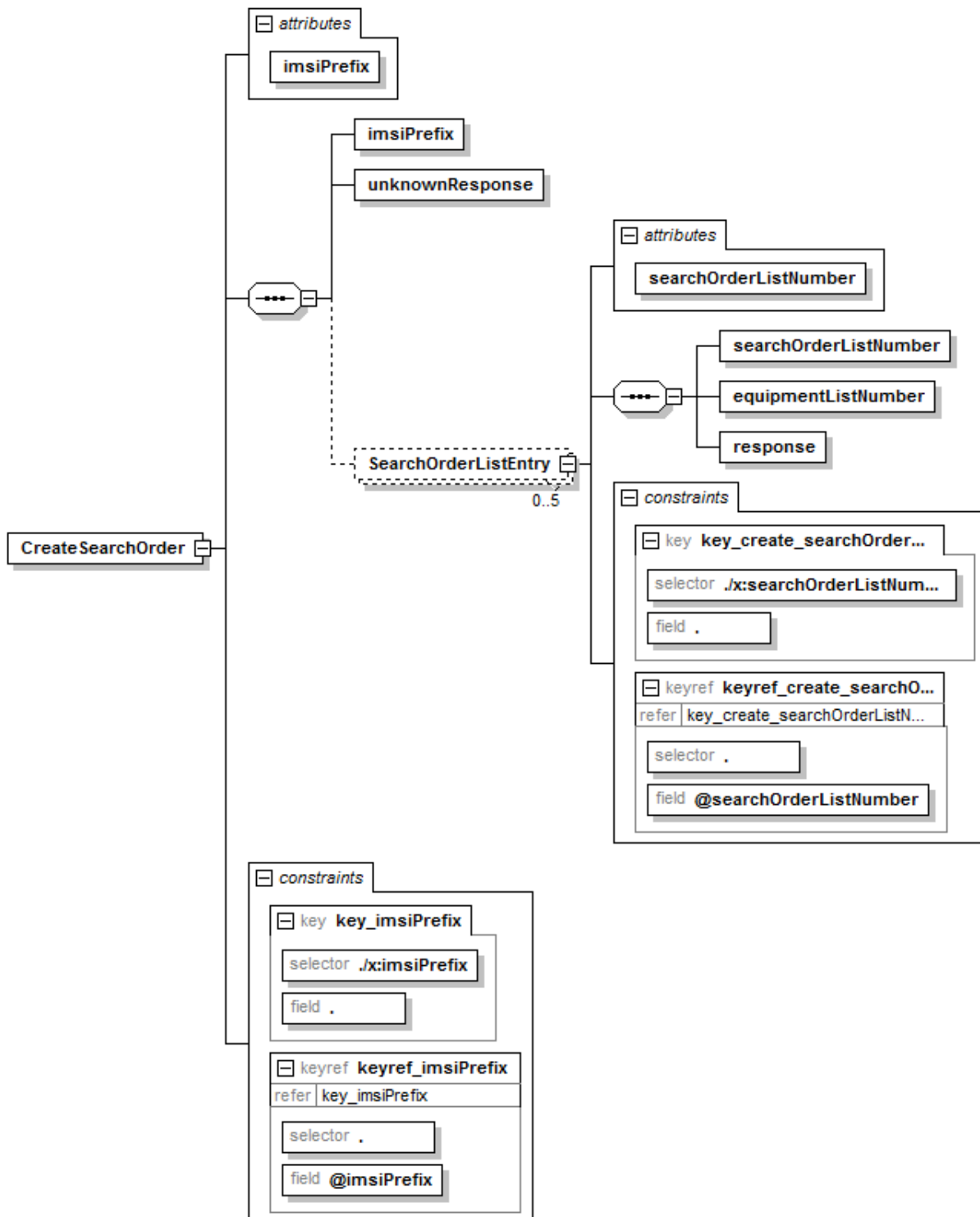


Figure 12 Parameters in Create Search Order

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



Table 28 Create Search Order MO Attributes

Parameter		Type	Occurrence	Description
imsiPrefix		String Pattern value="[0-9]* Default" minLength value="2" maxLength value="15"	Mandatory	This attribute contains the IMSI of the equipment being searched for.
unknownResponse		String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unknown"	Mandatory	This attribute contains the response returned if the IMEI being searched for is not found in any of the lists.
SearchOrderListEntry		Sub MO	Optional	Maximum five list entries can be defined
	searchOrderListNumber	Integer minInclusive value="1" maxInclusive value="5"	Mandatory	This attribute contains the identifier of a list entry.
	equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains a reference to an equipment list to search. ⁽¹⁾
	response	String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unknown"	Mandatory	This attribute contains the response returned if the IMEI being searched for is found in the list identified by equipmentListNumber.

(1) See Equipment MO for details related to equipment lists.

15.2 Examples

Request Example

This section gives an example of a `CreateSearchOrder` request message, as shown in Example 28.



```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Create>
      <cai3:MOType>SearchOrder@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imsiPrefix>123456789</eir:imsiPrefix>
      </cai3:MOId>
      <cai3:MOAttributes>
        <eir:CreateSearchOrder imsiPrefix="123456789">
          <eir:imsiPrefix>123456789</eir:imsiPrefix>
          <eir:unknownResponse>White</eir:unknownResponse>
          <eir:SearchOrderListEntry searchOrderListNumber="1">
            <eir:searchOrderListNumber>1</eir:searchOrderListNumber>
            <eir:equipmentListNumber>3</eir:equipmentListNumber>
            <eir:response>Grey</eir:response>
          </eir:SearchOrderListEntry>
          <eir:SearchOrderListEntry searchOrderListNumber="2">
            <eir:searchOrderListNumber>2</eir:searchOrderListNumber>
            <eir:equipmentListNumber>4</eir:equipmentListNumber>
            <eir:response>Black</eir:response>
          </eir:SearchOrderListEntry>
        </eir:CreateSearchOrder>
      </cai3:MOAttributes>
    </cai3:Create>
  </soapenv:Body>
</soapenv:Envelope>

```

Example 28 Create Search Order Request Message

Create an EIR SearchOrder with imsiPrefix 123456789, unknownResponse “White”, SearchOrderListEntry(searchOrderListNumber 1, equipmentListNumber 3, response “Grey”, searchOrderListNumber 2, equipmentListNumber 4, response “Black”).

Response Example

This section gives an example of a CreateSearchOrder response message, as shown in Example 29.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:CreateResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imsiPrefix xmlns:eir="http://schemas.ericsson.com/ma/EIR/">123456789
        </eir:imsiPrefix>
      </ns2:MOId>
    </ns2:CreateResponse>
  </S:Body>
</S:Envelope>

```

Example 29 Create Search Order Response Message



16 Get Search Order

This section covers the EIR-FE Equipment command `GetSearchOrder`.

MOType

`SearchOrder@http://schemas.ericsson.com/ma/EIR/`

16.1 Request Data

16.1.1 Parameters

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

Table 29 Get Search Order MO Id

Parameter	Type	Occurrence	Description
imsiPrefix	String Pattern value="[0-9]*!Default t" minLength value="2" maxLength value="15"	Mandatory	This attribute contains the IMSI ⁽¹⁾ of the equipment being searched for.

(1) A default search order must be present and cannot be created.

16.2 Response Data

16.2.1 Parameters

MOId

N/A

The parameters that are used in the operation are shown in Figure 13.

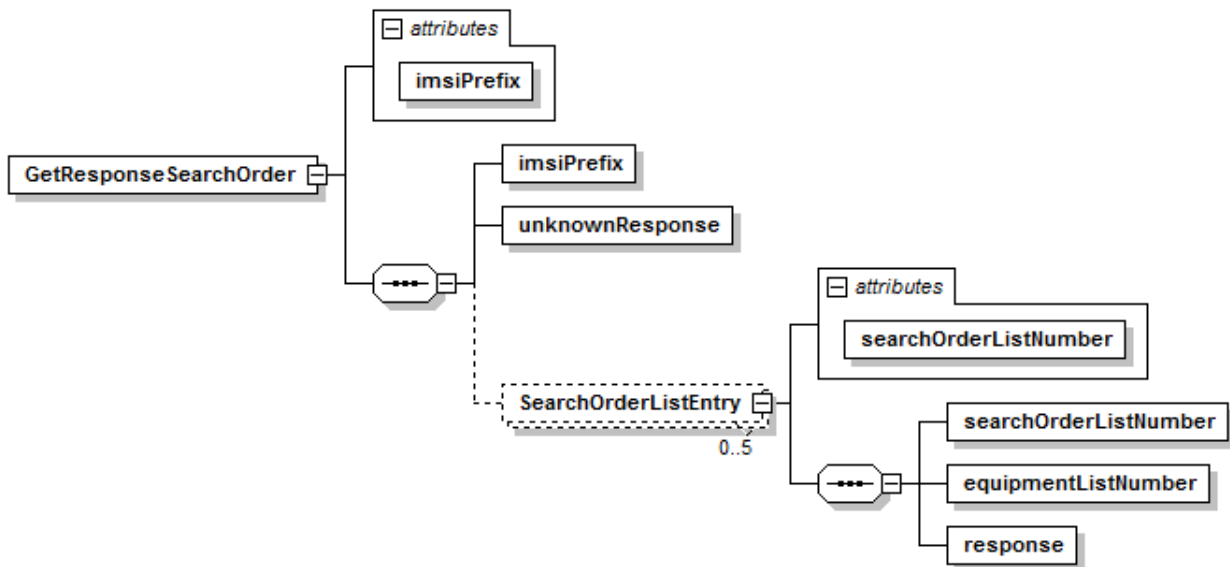


Figure 13 Parameters in Get Response Search Order

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

Table 30 Get Response Search Order MO Attributes

Parameter	Type	Occurrence	Description
imsiPrefix	String Pattern value="[0-9]* Default" minLength value="2" maxLength value="15"	Mandatory	This attribute contains the IMSI of the equipment being searched for.
unknownResponse	String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unknown"	Mandatory	This attribute contains the response returned if the IMEI being searched for is not found in any of the lists.
SearchOrderListEntry	Sub MO	Optional	Maximum five list entries can be defined



Table 30 *Get Response Search Order MO Attributes*

Parameter	Type	Occurrence	Description
searchOrderListNumber	Integer minInclusive value="1" maxInclusive value="5"	Mandatory	This attribute contains the identifier of a list entry.
equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains a reference to an equipment list to search. ⁽¹⁾
response	String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unknown"	Mandatory	This attribute contains the response returned if the IMEI being searched for is found in the list identified by equipmentListNumber.

(1) See Equipment MO for details related to equipment lists.

16.3 Examples

Request Example

This section gives an example of a GetSearchOrder request message, as shown in Example 30.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>SearchOrder@http://schemas.ericsson.com/ma/EIR/
    </cai3:MOType>
    <cai3:MOId>
      <eir:imsiPrefix>Default</eir:imsiPrefix>
    </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 30 Get Search Order Request Message

Get EIR default SearchOrder data.

Note: Default searchorder must exist in CUDb when installed with EIR-FE. Dynamic Activation cannot create this default searchorder.

Response Example

This section gives an example of a GetSearchOrder response message, as shown in Example 31.



```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:GetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOAttributes>
        <ns:GetResponseSearchOrder imsiPrefix="123456789"
xmlns:ns="http://schemas.ericsson.com/ma/EIR/">
          <ns:imsiPrefix>123456789</ns:imsiPrefix>
          <ns:unknownResponse>White</ns:unknownResponse>
          <ns:SearchOrderListEntry
searchOrderListNumber="1">
            <ns:searchOrderListNumber>1</ns:searchOrderListNumber>
            <ns:equipmentListNumber>3</ns:equipmentListNumber>
            <ns:response>Grey</ns:response>
          </ns:SearchOrderListEntry>
          <ns:SearchOrderListEntry
searchOrderListNumber="2">
            <ns:searchOrderListNumber>2</ns:searchOrderListNumber>
            <ns:equipmentListNumber>4</ns:equipmentListNumber>
            <ns:response>Black</ns:response>
          </ns:SearchOrderListEntry>
        </ns:GetResponseSearchOrder>
      </ns2:MOAttributes>
    </ns2:GetResponse>
  </S:Body>
</S:Envelope>
```

Example 31 *Get Search Order Response Message*



17 Set Search Order

This section covers the EIR-FE Equipment command `SetSearchOrder`.

MOType

`SearchOrder@http://schemas.ericsson.com/ma/EIR/`

17.1 Request Data

17.1.1 Parameters

MOId

Table 31 Set Search Order MO Id

Parameter	Type	Occurrence	Description
imsiPrefix	String Pattern value="[0-9]*!Default t" minLength value="2" maxLength value="15"	Mandatory	This attribute contains the IMSI ⁽¹⁾ of the equipment being searched for.

(1) A default search order must be present and cannot be created.

MOAttributes

The parameters that are used in the operation are shown in Figure 14.

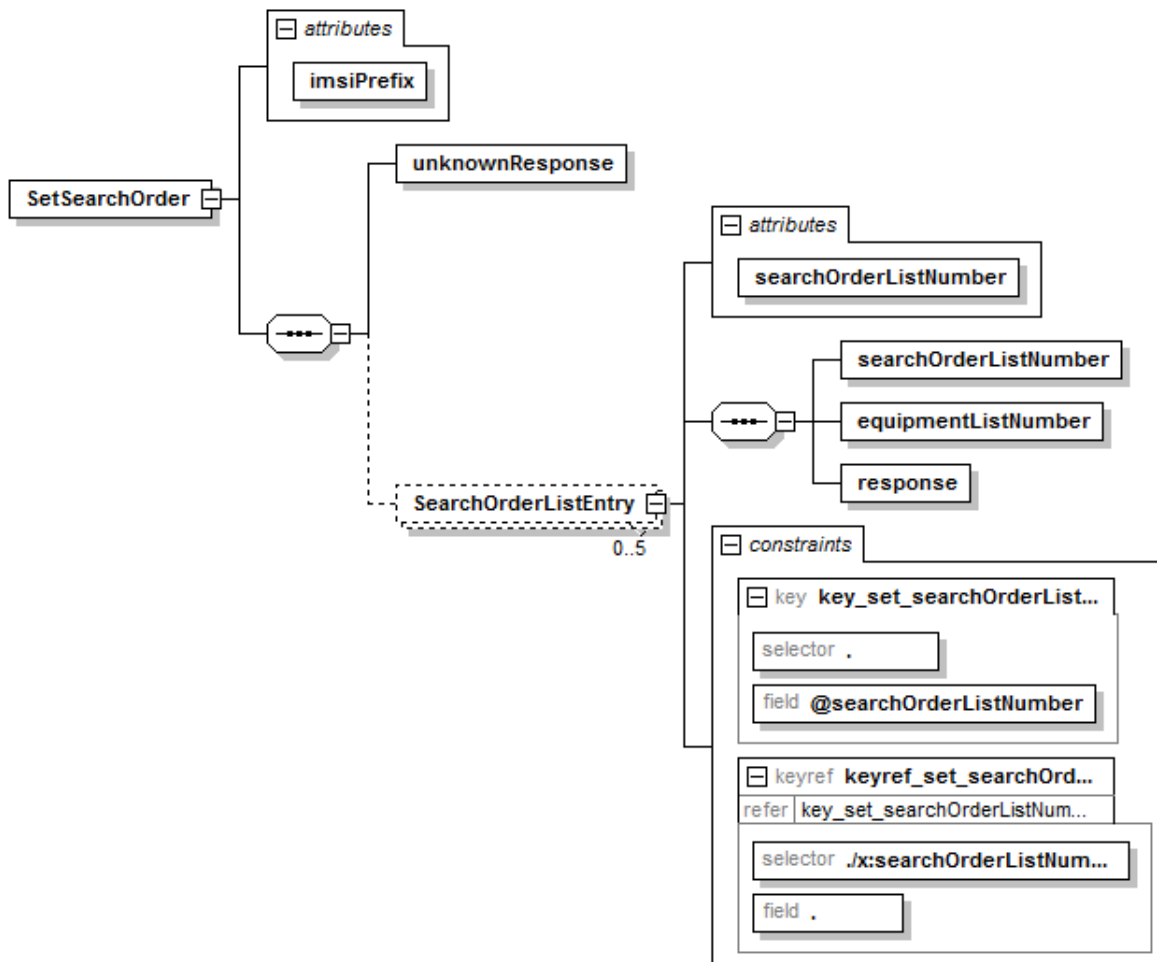


Figure 14 Parameters in Set Search Order

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

Table 32 Set Search Order MO Attributes

Parameter	Type	Occurrence	Description
unknownResponse	String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unkno wn"	Mandatory	This attribute contains the response returned if the IMEI being searched for is not found in any of the lists.
SearchOrderListEntry	Sub MO [nillable]	Optional	Maximum five list entries can be defined



Table 32 Set Search Order MO Attributes

Parameter	Type	Occurrence	Description
searchOrderListNumber	Integer minInclusive value="1" maxInclusive value="5"	Mandatory	This attribute contains the identifier of a list entry.
equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Mandatory	This attribute contains a reference to an equipment list to search. ⁽¹⁾
response	String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unknown"	Mandatory	This attribute contains the response returned if the IMEI being searched for is found in the list identified by equipmentListNumber.

(1) See Equipment MO for details related to equipment lists.

17.2 Examples

Request Example

This section gives an example of a SetSearchOrder request message, as shown in Example 32.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Set>
      <cai3:MOType>SearchOrder@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imsiPrefix>123456789</eir:imsiPrefix>
      </cai3:MOId>
      <cai3:MOAttributes>
        <eir:SetSearchOrder imsiPrefix="123456789">
          <eir:unknownResponse>Unknown</eir:unknownResponse>
          <eir:SearchOrderListEntry
            searchOrderListNumber="3">
            <eir:searchOrderListNumber>3</eir:searchOrderListNumber>
            <eir:equipmentListNumber>9</eir:equipmentListNumber>
            <eir:response>White</eir:response>
          </eir:SearchOrderListEntry>
        </eir:SetSearchOrder>
      </cai3:MOAttributes>
    </cai3:Set>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 32 Set Search Order Request Message



Set and create EIR SearchOrder with imsiPrefix 123456789, unknownResponse “Unknown”, SearchOrderListEntry(searchOrderListNumber 3, equipmentListNumber 9, response “White”).

Note: The attribute unknownResponse is updated and attribute searchOrderListNumber 3 is added in the request.

Response Example

This section gives an example of a SetSearchOrder response message, as shown in Example 33.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:SetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/" />
  </S:Body>
</S:Envelope>
```

Example 33 Set Search Order Response Message



18 Delete Search Order

This section covers the EIR-FE Equipment command `DeleteSearchOrder`.

MOType

`SearchOrder@http://schemas.ericsson.com/ma/EIR/`

18.1 Request Data

18.1.1 Parameters

MOId

Table 33 Delete Search Order MO Id

Parameter	Type	Occurrence	Description
imsiPrefix	String Pattern value="[0-9]*!Default t" minLength value="2" maxLength value="15"	Mandatory	This attribute contains the IMSI ⁽¹⁾ of the equipment being searched for.

(1) A default search order must be present and cannot be deleted.

MOAttributes

N/A

18.2 Examples

Request Example

This section gives an example of a `DeleteSearchOrder` request message, as shown in Example 34.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Delete>
      <cai3:MOType>SearchOrder@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imsiPrefix>123456789</eir:imsiPrefix>
      </cai3:MOId>
    </cai3:Delete>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 34 Delete Search Order Request Message

Delete EIR SearchOrder with imsiPrefix 123456789.

Response Example

This section gives an example of a DeleteSearchOrder response message, as shown in Example 35.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:DeleteResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imsiPrefix xmlns:eir="http://schemas.ericsson.com/ma/EIR/">123456789
        </eir:imsiPrefix>
      </ns2:MOId>
    </ns2:DeleteResponse>
  </S:Body>
</S:Envelope>
```

Example 35 Delete Search Order Response Message



19 Get Equipment Status

This section covers the EIR-FE Equipment Status command `GetEquipmentStatus`.

MOType

`EquipmentStatus@http://schemas.ericsson.com/ma/EIR/`

19.1 Request Data

19.1.1 Parameters

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

Note: The `Check Digit` in the IMEI value is not supported.

Table 34 Get Equipment Status MO Id

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Optional	This attribute contains the IMSI associated with the equipment.

19.2 Response Data

19.2.1 Parameters

MOId

N/A

The parameters that are used in the operation are shown in Figure 15.

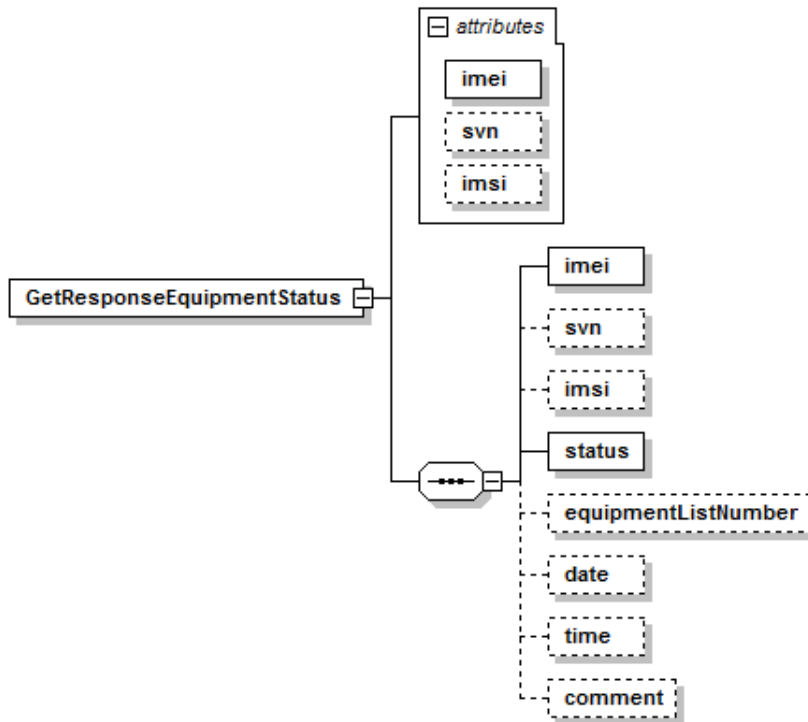


Figure 15 Parameters in Get Equipment Status

The following table covers the parameters that are received in a GetEquipmentStatus response.

Note: The Check Digit in the IMEI value is not supported.

Table 35 Get Equipment Status MO Attributes

Parameter	Type	Occurrence	Description
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. SVN value 99 is reserved for future use.
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Optional	This attribute contains the IMSI associated with the equipment.



Table 35 *Get Equipment Status MO Attributes*

Parameter	Type	Occurrence	Description
status	String Enumeration value="Black" Enumeration value="Grey" Enumeration value="White" Enumeration value="Unkno wn"	Mandatory	This attribute contains the response returned if the IMEI being searched for is not found in any of the lists.
equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	Optional	This attribute contains the lists for which the equipment is defined. One equipment can be included in up to 10 lists.
date	Date Format is yyyy-mm-dd.	Optional	This attribute contains the date when the equipment is created.
time	Time Format is hh:mm:ss.	Optional	This attribute contains the time when the equipment is created.
comment	String minLength value="0" maxLength value="255"	Optional	This attribute contains a comment related to why the equipment is created.

19.3 Examples

Request Example

This section gives an example of a GetEquipmentStatus request message, as shown in Example 36.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>EquipmentStatus@http://schemas.ericsson.com/ma/EIR/
      </cai3:MOType>
      <cai3:MOId>
        <eir:imei>12345688000009</eir:imei>
        <eir:svn>15</eir:svn>
        <eir:imsi>112158</eir:imsi>
      </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 36 *Get Equipment Status Request Message*

Get EIR EquipmentStatus data with IMEI number 12345688000009.



Response Example

This section gives an example of a `GetEquipmentStatus` response message, as shown in Example 37.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:GetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOAttributes>
        <ns:GetResponseEquipmentStatus imei="12345688000009"
          svn="15" imsi="1121158" xmlns:ns="http://schemas.ericsson.com/ma/EIR/">
          <ns:imei>12345688000009</ns:imei>
          <ns:svn>15</ns:svn>
          <ns:imsi>1121158</ns:imsi>
          <ns:status>Unknown</ns:status>
        </ns:GetResponseEquipmentStatus>
      </ns2:MOAttributes>
    </ns2:GetResponse>
  </S:Body>
</S:Envelope>
```

Example 37 *Get Equipment Status Response Message*

20 Create Fixed SIM

This section covers the EIR-FE Fixed SIM command `CreateFixedSim`.

MOType

`FixedSim@http://schemas.ericsson.com/ma/EIR/`

20.1 Request Data

20.1.1 Parameters

MOId

Table 36 Create Fixed SIM MO Id

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment that it is locked to.

MOAttributes

The parameters that are used in the operation are shown in Figure 16.

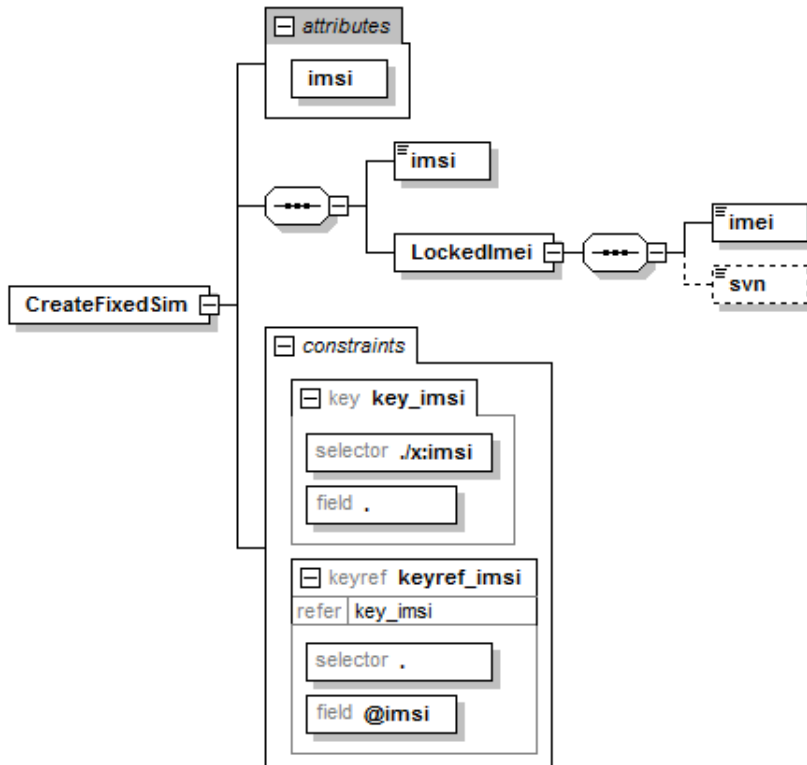


Figure 16 Parameters in Create Fixed SIM

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

Note: The Check Digit in the IMEI value is not supported.

Table 37 Create Fixed SIM MO Attributes

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment that the IMSI is locked to.
lockedImei			



Table 37 Create Fixed SIM MO Attributes

Parameter		Type	Occurrence	Description
	Imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment.
	svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment. If this parameter is not included, Dynamic Activation uses an internal value of "0F" (not used on the CAI3G interface). SVN value 99 is reserved for future use.

20.2 Examples

Request Example

This section gives an example of a CreateFixedSim request message, as shown in Example 38.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Create>
      <cai3:MOType>FixedSim@http://schemas.ericsson.com/ma/EIR/</cai3:MOType>
      <cai3:MOId>
        <eir:imsi>123456789012345</eir:imsi>
      </cai3:MOId>
      <cai3:MOAttributes>
        <eir>CreateFixedSim imsi="123456789012345">
          <eir:imsi>123456789012345</eir:imsi>
          <eir:LockedImei>
            <eir:imei>11223344556677</eir:imei>
            <eir:svn>66</eir:svn>
          </eir:LockedImei>
        </eir>CreateFixedSim>
      </cai3:MOAttributes>
    </cai3:Create>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 38 Create Fixed SIM Request Message

Create an EIR Fixed SIM with IMSI 123456789012345, IMEI 112233445566778 and svn 66.

Response Example

This section gives an example of a CreateFixedSim response message, as shown in Example 39.



```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:CreateResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imsi xmlns:eir="http://schemas.ericsson.com/ma/EIR/">123456789012345
      </eir:imsi>
      </ns2:MOId>
    </ns2:CreateResponse>
  </S:Body>
</S:Envelope>
```

Example 39 *Create Fixed SIM Response Message*

21

Get Fixed SIM

This section covers the EIR-FE Fixed SIM command `GetFixedSim`.

MOType

`FixedSim@http://schemas.ericsson.com/ma/EIR/`

21.1

Request Data

21.1.1

Parameters

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

Table 38 *Get Fixed SIM MO Id*

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment that it is locked to.

21.2

Response Data

21.2.1

Parameters

MOId

N/A

The parameters that are used in the operation are shown in Figure 17.

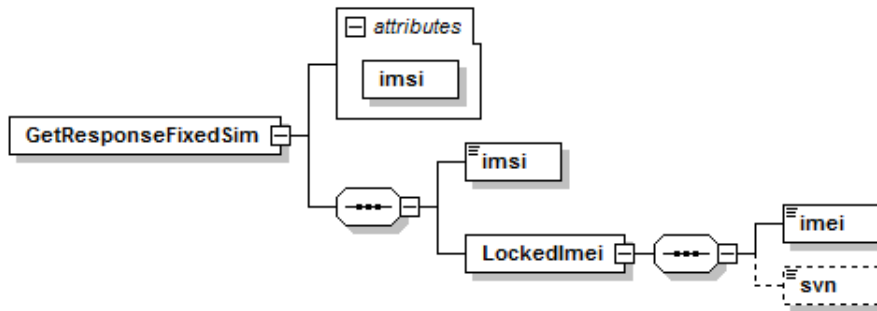


Figure 17 Parameters in Get Response Fixed SIM

The following table covers the parameters that are received in a `GetFixedSim` response.

Note: The Check Digit in the IMEI value is not supported.

Table 39 Get Fixed Response Fixed SIM MO Attributes

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment that it is locked to.
lockedImei			
imei	String Pattern value="[0-9]*" minLength value="14" maxLength value="14"	Mandatory	This attribute contains the IMEI associated with the equipment that it is locked to.
svn	String Pattern value="[0-9]{2}"	Optional	This attribute contains the Software Version Number associated with the equipment that it is locked to. SVN value 99 is reserved for future use.

21.3 Examples

Request Example

This section gives an example of a `GetFixedSim` request message, as show in Example 40.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3g1.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3:Get>
      <cai3:MOType>FixedSim@http://schemas.ericsson.com/ma/EIR/</cai3:MOType>
      <cai3:MOId>
        <eir:imsi>123456789012345</eir:imsi>
      </cai3:MOId>
    </cai3:Get>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 40 *Get Fixed SIM Request Message*

Get EIR Fixed SIM data with IMSI number 123456789012345.

Response Example

This section gives an example of a GetFixedSim response message, as show in Example 41.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:GetResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOAttributes>
        <ns:GetResponseFixedSim imsi="123456789012345"
          xmlns:ns="http://schemas.ericsson.com/ma/EIR/">
          <ns:imsi>123456789012345</ns:imsi>
          <ns:LockedImei>
            <ns:imei>11223344556677</ns:imei>
            <ns:svn>66</ns:svn>
          </ns:LockedImei>
        </ns:GetResponseFixedSim>
      </ns2:MOAttributes>
    </ns2:GetResponse>
  </S:Body>
</S:Envelope>
```

Example 41 *Get Fixed SIM Response Message*





22 Delete Fixed SIM

This section covers the EIR-FE Fixed SIM command `DeleteFixedSim`.

MOType

`FixedSim@http://schemas.ericsson.com/ma/EIR/`

22.1 Request Data

22.1.1 Parameters

MOId

Table 40 Delete Fixed SIM MO Id

Parameter	Type	Occurrence	Description
imsi	String Pattern value="[0-9]*" minLength value="6" maxLength value="15"	Mandatory	This attribute contains the IMSI associated with the equipment that it is locked to.

22.2 Examples

Request Example

This section gives an example of a `DeleteFixedSim` request message, as shown in Example 42.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3="http://schemas.ericsson.com/cai3gl.2/"
  xmlns:eir="http://schemas.ericsson.com/ma/EIR/">
  <soapenv:Header>
    <cai3:SessionId>session_id</cai3:SessionId>
  </soapenv:Header>
  <soapenv:Body>
    <cai3>Delete>
      <cai3:MOType>FixedSim@http://schemas.ericsson.com/ma/EIR/</cai3:MOType>
      <cai3:MOId>
        <eir:imsi>123456789012345</eir:imsi>
      </cai3:MOId>
    </cai3>Delete>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 42 Delete Fixed SIM Request Message

Delete EIR Fixed SIM with IMSI number 123456789012345.



Response Example

This section gives an example of a DeleteFixedSim response message, as shown in Example 43.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:cai3g="http://schemas.ericsson.com/cai3g1.2/">
  <S:Header>
    <cai3g:SessionId>session_id</cai3g:SessionId>
  </S:Header>
  <S:Body>
    <ns2:DeleteResponse xmlns:ns2="http://schemas.ericsson.com/cai3g1.2/">
      <ns2:MOId>
        <eir:imsi xmlns:eir="http://schemas.ericsson.com/ma/EIR/">123456789012345</eir:imsi>
      </ns2:MOId>
    </ns2:DeleteResponse>
  </S:Body>
</S:Envelope>
```

Example 43 *Delete Fixed SIM Response Message*



23 Faults and 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.

Only EIR specific error codes are described in this section. These error codes are included in the Fault type `PGFault`.

For generic error codes, and information about the different Fault types, see *CAI3G Implementation*, Reference [4].

23.1 Subordinate EIR Error Codes

The following table covers subordinate error codes for EIR commands over the CAI3G interface.

Table 41 Subordinate EIR Error Codes

Error Code	Error Message	Error Details	MO	Operation
15001	EQUIPMENT EXIST	Specified equipment (IMEI) exists	Equipment	C
		Part or all equipment (IMEI) range exists	Equipments	C
15003	EQUIPMENT DOES NOT EXIST	Specified equipment (IMEI) does not exist	Equipment	G/S/D
			EquipmentStatus	G
		Part or all equipment (IMEI) range does not exist	Equipments	D
15005	IMSI EXIST	Specified IMSI exists	ClonedHandsetUser	C/G/D
			FixedSim	C/G/D
15006	IMSI DOES NOT EXIST	Specified IMSI does not exist	ClonedHandsetUser	G/S/D
			FixedSim	G/D
15007	IMSI PREFIX EXIST	Specified IMSI Prefix exists	SearchOrder	C
15008	IMSI PREFIX DOES NOT EXIST	Specified IMSI Prefix does not exist	SearchOrder	G/S/D
15009	MOBILE STATION DOES NOT EXIST	Mobile station with this IMEI (and SVN) does not exist	MobileStation	G/D
15010	LOCKED IMSI NOT DEFINED	Specified equipment (IMEI) does not have lockedIMSI defined	MobileStation	G



Error Code	Error Message	Error Details	MO	Operation
15015	NE UNAVAILABLE	CUDB unavailable – retry operation	Equipment	C/S/D
			EquipmentStatus	G
			MobileStation	C/D
			ClonedHandset User	C/S/D
			SearchOrder	C/S/D
			FixedSim	C/D
		CUDB unavailable – retry operation from <imei>	Equipment	C/D
15017	INCOMPLETE DATA	ImeilogData could not be completed, manual repair needed	Equipment	C/S/D
			Equipment	C/D
15060	MAX NO OF RESPONSE ITEMS EXCEEDED	Number of items returned by request exceeded the configured max limit	EquipmentStatus	G
			SearchOrder	G
15061	NUMBER OF ITEMS EXCEEDED	Not enough space to add new ClonedIMEIs	ClonedHandset User	S
15070	WRONG ARGUMENT	Start of range must be less than or equal to the end of range	Equipment	C/D
		Max number of items (10) in range exceeded	Equipment	C/D
		First 8 digits of imeiFrom and imeiTo must be the same	Equipment	C/D

23.1.1 CAI3G Error Message Example

The following, shown in Example 44, 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>9bba7a74f43942dd9ce89b6dd4b96d85</cai3g:SessionId>
  </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>MF</faultrole>
          <details>
            <PGFault:PGFault xmlns="http://schemas.ericsson.com/pg/1.0"
              xmlns:PGFault="http://schemas.ericsson.com/pg/1.0">
              <errorcode>15001</errorcode>
              <errormessage>EQUIPMENT EXISTS</errormessage>
              <errordetails>Specified equipment (IMEI) already exist -
                [Processed by PG Node: vmx1771]</errordetails>
            </PGFault:PGFault>
          </details>
        </Cai3gFault:Cai3gFault>
      </detail>
    </ns2:Fault>
  </S:Body>
</S:Envelope>

```

Example 44 CAI3G Error Message





Reference List

Ericsson Documents

- [1] *Glossary of Terms and Acronyms*, 0033-CSH 109 628 Uen
- [2] *Generic CAI3G Interface 1.2 Specification*, 2/155 19-FAY 302 0003 Uen
- [3] *Library Overview*, 18/1553-CSH 109 628 Uen
- [4] *CAI3G Implementation*, 26/155 19-CSH 109 628 Uen