

Configure SCCP Routing on any Destination

OPERATING INSTRUCTIONS

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1 Description

This instruction describes how to create and configure a Routing on Remote or Local Destination for the SCCP protocol using the Ericsson Command-Line Interface (ECLI).

The instructions below considers only configuring a Primary Destination, but can be applied for any other.

2 Procedure

2.1 View Available MOs for any MOC

Steps

1. Run show command

```
>show -m MocName -r
```

Where MocName is the name of the MOC to get available MOs for.

The following is an example:

```
show -m RemoteSignalingPoint -r
```



```

ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=SccpRemoteSp
remoteSignalingPointCode=100
reservedBy
    "ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=0,Sccp
    "ManagedElement=1,Ss7=1,M3ua=1,LocalAs=1,RkGrouping=1"
ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=SccpRemoteSp
remoteSignalingPointCode=103
reservedBy
    "ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=3,Sccp
    "ManagedElement=1,Ss7=1,M3ua=1,LocalAs=4,RkGrouping=1"
ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=SccpRemoteSp
remoteSignalingPointCode=102
reservedBy
    "ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=2,Sccp
    "ManagedElement=1,Ss7=1,M3ua=1,LocalAs=3,RkGrouping=1"
ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=SccpRemoteSp
remoteSignalingPointCode=101
reservedBy
    "ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=1,Sccp
    "ManagedElement=1,Ss7=1,M3ua=1,LocalAs=2,RkGrouping=1"

```

2.2 Configure Routing on Destination for current Local Node only

Prerequisites

- A Managed Object LocalSignalingPoint, representing Local Node, exists.
- A Managed Object SccpSignalingPoint under LocalSignalingPoint MO exists.
- A Managed Object, representing Destination (Destination MO), exists. The Destination MO can be an instance of one of following MOCs:
 - LocalSignalingPoint
 - RemoteSignalingPoint
 - LocalSap
 - RemoteSap

Steps

1. Navigate to the SccpSignalingPoint MO, for example:

```
>dn ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignaling
Point=1,SccpSignalingPoint=1
```

2. Enter Config mode:



```
(SccpSignalingPoint=1)>configure
```

3. Create the MO for the GtTranslator MOC, for example:

```
(config-SccpSignalingPoint=1)>GtTranslator=1
```

4. Create the MO for the GtDestination MOC, for example:

```
(config-GtTranslator=1)>GtDestination=1
```

5. Set the value of the sap attribute as a reference to an MO to configure routing on. Examples:

```
— (config-GtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=2"
```

```
— (config-GtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=2"
```

```
— (config-GtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=1,SccpSignalingPoint=1,LocalSap=2"
```

```
— (config-GtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=1,SccpSignalingPoint=1,RemoteSap=2"
```

6. Change the CLI position to the parent MO (GtTranslator), for example:

```
(config-GtDestination=1)>up
```

7. Set the value of the primaryGtDestination attribute to refer on previously created GtDestination MO, for example:

```
(config-GtTranslator=1)>primaryGtDestination="GtDestination=1"
```

8. Set sane values for GtTranslator attributes. Example:

```
(config-GtTranslator=1)>translationType=-2
```

```
(config-GtTranslator=1)>numberSeries=*
```

9. Commit the changes:

```
>commit
```

2.3 Configure Routing on Destination for every Local Node in current Network

Prerequisites

- A Managed Object SignalingNetwork exists.



- A Managed Object, representing Destination (Destination MO), exists. The Destination MO can be an instance of one of following MOCs:

- LocalSignalingPoint
- RemoteSignalingPoint
- LocalSap
- RemoteSap
- SharedRemoteSap

Steps

1. Navigate to the SignalingNetwork MO, for example:
`>dn ManagedElement=1,Ss7=1,SignalingNetwork=1`
2. Enter Config mode:
`(SignalingNetwork=1)>configure`
3. Create the MO for the SharedGtTranslator MOC, for example:
`(config-SignalingNetwork=1)>SharedGtTranslator=1`
4. Create the MO for the SharedGtDestination MOC, for example:
`(config-SharedGtTranslator=1)>SharedGtDestination=1`
5. Define the DN of Destination MO to configure routing on (see: Section 2.1 on page 1)
6. Set the value of the sap attribute. Examples:
 - `(config-SharedGtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=1"`
 - `(config-SharedGtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,SharedRemoteSap=1"`
 - `(config-SharedGtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=3,SccpSignalingPoint=1,RemoteSap=2"`
 - `(config-SharedGtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=3,SccpSignalingPoint=1,LocalSap=1"`
 - `(config-SharedGtDestination=1)>sap="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=1"`
7. Change the CLI position to the parent MO (GtTranslator=1), for example:



```
(config-SharedGtDestination=1)>up
```

8. Set the value of the `primaryGtDestination` attribute, for example:

```
(config-SharedGtTranslator=1)>primaryGtDestination="SharedGtDestination=1"
```

9. Set sane values for `SharedGtTranslator` attributes. Example:

```
(config-SharedGtTranslator=1)>translationType=-2
```

```
(config-SharedGtTranslator=1)>numberSeries=*
```

10. Commit the changes:

```
>commit
```

2.4 Configure Routing on Local Destination on the same Node

1. Define a Destination MO of `LocalSap` MOC: choose previously created one (see: Section 2.1 on page 1) or create new one.
2. Perform steps from Section 2.2 on page 2 with `Destination` MO defined on previous step.

2.5 Configure Routing on another Local Node

1. Define a Destination MO of `LocalSignalingPoint` MOC: choose previously created one (see: Section 2.1 on page 1) or create new one.
2. Perform steps from Section 2.2 on page 2 with `Destination` MO defined on previous step.

2.6 Configure Routing on Remote Destination by SPC and SSN

2.6.1 Configure Routing on Remote Destination for current Local Node only

1. Define a Destination MO of `RemoteSap` MOC: choose previously created one (see: Section 2.1 on page 1) or create new one.
2. Perform steps from Section 2.2 on page 2 with `Destination` MO defined on previous step.

2.6.2 Configure Routing on Remote Destination for every Local Node in current Network

1. Define a Destination MO of `SharedRemoteSap` MOC: choose previously created one (see: Section 2.1 on page 1) or create new one.



2. Perform steps from Section 2.3 on page 3 with Destination MO defined on previous step.

2.7 Configure Routing on Remote Destination by SPC only

1. Define a Destination MO of RemoteSignalingPoint MOC to configure routing on: choose previously created one (see: Section 2.1 on page 1) or create new one.
2. Perform steps from Section 2.2 on page 2 with Destination MO defined on previous step.

2.8 Configure Routing between Networks

1. Define a Destination MO of LocalSignalingPoint MOC from another network (SignalingNetwork) to configure routing on: choose previously created one (see: Section 2.1 on page 1) or create new one. Example:

`ManagedElement=1,Ss7=1,SignalingNetwork=5,LocalSignalingPoint=2`

The LocalSignalingPoint=2 belongs to SignalingNetwork=5. An MO for GtDestination MOC belongs to SignalingNetwork=1.

2. Perform steps from Section 2.2 on page 2 with Destination MO defined on previous step.