

# Create Basic M3UA ASP-SGP Configuration

## OPERATING INSTRUCTIONS

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# 1 Description

This instruction describes how to create and configure basic M3UA Application Server Process (ASP) - Signaling Gateway Process (SGP) configuration using the Ericsson Command-Line Interface (ECLI).

## 2 Procedure

### 2.1 Configure Basic ASP - SGP Configuration

#### Prerequisites

- No documents are required.
- No tools are required.
- The following conditions must apply:
  - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.
  - A Managed Object (MO) SctpProfile exists.
  - A Managed Object (MO) LocalSignalingPoint exists.
  - A Managed Object (MO) RemoteSignalingPoint exists..
  - A Managed Object (MO) LocalSctpEndpoint exists.

#### Steps

There is recommended order of creating objects of basic ASP-SGP configuration:

1. Create Local Application Server (AS).
2. Create Local ASP.
3. Create Remote SGP.

### 2.2 Create Local AS

#### Steps

1. Navigate to the M3ua MO, for example:



```
>ManagedElement=1,Ss7=1,M3ua=1
```

2. Enter Config mode:

```
(M3ua=1)>configure
```

3. Create the LocalAs MO, for example:

```
(config-M3ua=1)>LocalAs=1
```

4. To see all attributes with values, run show command, for example:

```
(config-LocalAs=1)>show -v
```

The following is an example output:

```
LocalAs=1
  asProfile=[]
  localAsId=1
  localSpc=[]
  networkAppearance=[]
  remoteAs=[]
  reservedBy=[]
```

5. Set the value of the localSpc attribute, for example:

```
(config-LocalAs=1)>localSpc="ManagedElement=1,Ss7=1,SignalingNetwork=1,LocalSignalingPoint=1"
```

6. Set the value of the networkAppearance attribute, for example:

```
(config-LocalAs=1)>networkAppearance=0
```

7. Set the value of the asProfile attribute, for example:

```
(config-LocalAs=1)>asProfile="ManagedElement=1,Ss7=1,M3ua=1,AsProfile=1"
```

8. Create the RkGrouping MO, for example:

```
(config-LocalAs=1)>RkGrouping=1
```

9. To see all attributes with values, run show command, for example:

```
(config-RkGrouping=1)>show -v
```

The following is an example output:

```
RkGrouping=1
  dpc=[]
  localSpc=-1
  rkGroupingId=1
  si=[]
```



10. Set the value of the si attribute. Example:

```
(config-RkGrouping=1)> si=[3,4]
```

11. Set the value of the localSpc attribute, for example:

```
(config-RkGrouping=1)> localSpc=100
```

12. Set the value of the dpc attribute. Examples:

```
(config-RkGrouping=1)> dpc=["ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=1"]
```

13. Create the RoutingContext MO, for example:

- a. Navigate back to the LocalAs MO:

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

- b. Create the RoutingContext MO:

```
(config-LocalAs=1)> RoutingContext=1
```

**Note:** Step is optional. RoutingContext may be not created if a LocalAsp serves only one LocalAs MO.

## 2.3 Create Local ASP

### Steps

1. Navigate to the M3ua MO, for example:

```
(config-RoutingContext=1)> ManagedElement=1,Ss7=1,M3ua=1
```

2. Create the LocalAsp MO, for example:

```
(config-M3ua=1)> LocalAsp=1
```

3. To see all attributes with values, run show command, for example:

```
(config-LocalAsp=1)> show -v
```

The following is an example output:

```
LocalAsp=1
  localAs=[]
  localAspId=1
  sctpEndpoint=[]
```

4. Set the value of the sctpEndpoint attribute, for example:

```
(config-LocalAsp=1)> sctpEndpoint="ManagedElement=1,Ss7=1,M3ua=1,LocalSctpEndpoint=1"
```



5. Set the value of the localAs attribute. Examples:

```
(config-LocalAs=1)>localAs=["ManagedElement=1,Ss7=1,M3ua=1,LocalAs=1"]
```

## 2.4 Create Remote SGP

### Steps

1. Navigate to the LocalAs MO, for example:

```
(config-LocalAs=1)>ManagedElement=1,Ss7=1,M3ua=1,LocalAs=1
```

2. Create the RemoteSgp MO, for example:

```
(config-LocalAs=1)>RemoteSgp=1
```

3. To see all attributes with values, run show command, for example:

```
(config-RemoteSgp=1)>show -v
```

The following is an example output:

```
RemoteSgp=1
  aspIdentifier=0
  aspIdentifierHandling=NO_ASP_ID
  localCongestionLevel=3
  messageDiscardLevelShift=0
  networkAppearanceHandling=OFF
  primaryLocalIpAddress=[]
  primaryRemoteIpAddress=[]
  remoteAddresses=[]
  remotePortNumber=2905
  remoteSctpProfile=[]
  remoteSg=[]
  remoteSgpId=1
  remoteSpPriority=1
  remoteSpProfile=[]
  routingContextHandling=RFC_4666_COMPLIANT
  routingContexts=[]
  sctpType=CLIENT_PEER
  spInStartAll=INCLUDE_IN_START_ALL
```

4. Set the value of the remoteAddresses attribute. Examples:

```
(config-RemoteSgp=1)>remoteAddresses=[1.1.1.1,1.1.1.2]
```

5. Set the value of the remotePortNumber attribute, for example:

```
(config-RemoteSgp=1)>remotePortNumber=2906
```

6. Set the value of the remoteSctpProfile attribute, for example:





```
(config-RemoteSgp=1)>remoteSctpProfile="ManagedElement=1,Transport=1,Sctp=1,SctpProfile=1"
```

7. Set the value of the remoteSpProfile attribute, for example:

```
(config-RemoteSgp=1)>remoteSpProfile="ManagedElement=1,Ss7=1,M3ua=1,RemoteSpProfile=1"
```

8. Set the value of the remoteSg attribute, for example:

```
(config-RemoteSgp=1)>remoteSg=1
```

9. Commit the changes:

```
(config-RemoteSgp=1)>commit
```

**Note:** After successful "commit" all recently added MOs (LocalAs, LocalAsp, RemoteSgp) are activated automatically. No additional actions are needed.