

Create Basic M3UA IPSP-IPSP Configuration

OPERATING INSTRUCTIONS

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1 Description

This instruction describes how to create and configure basic M3UA IP Server Process - IP Server Process (IPSP - IPSP) configuration using the Ericsson Command-Line Interface (ECLI).

2 Procedure

2.1 Configure Basic IPSP - IPSP 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.
 - A Managed Object (MO) RemoteSpProfile exists.
 - A Managed Object (MO) AsProfile exists.

Steps

There is recommended order of creating objects of basic IPSP-IPSP configuration:

1. Create Remote Application Server, see Section 2.2.
2. Create Local Application Server, see Section 2.3.
3. Create Local IP Server Process, see Section 2.4.
4. Create Remote IP Server Process, see Section 2.5.



2.2 Create Remote Application Server

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 RemoteAs MO, for example:

```
(config-M3ua=1)>RemoteAs=40001
```

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

```
(config-RemoteAs=40001)>show -v
```

The following is an example output:

```
RemoteAs=40001
  asProfile=[]
  remoteAsId=40001
  reservedBy=[]
  routingContext=[]
```

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

```
(config-RemoteAs=40001)>asProfile="ManagedElement=1,Ss7=1,M3ua=1,AsProfile=1"
```

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

```
(config-RemoteAs=40001)>routingContext=1
```

2.3 Create Local Application Server

Steps

1. Navigate to the M3ua MO, for example:

```
(config-RemoteAs=40001)>ManagedElement=1,Ss7=1,M3ua=1
```

2. Create the LocalAs MO, for example:

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

3. 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=[]
```

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

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

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

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

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

```
(config-LocalAs=1)>remoteAs="ManagedElement=1,Ss7=1,M3ua=1,RemoteAs=40001"
```

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. Examples:

— (config-RkGrouping=1)>si=3

— To set several values they are to be included in square brackets and separated by comma, for example:

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



- If si attribute is empty, it means all SIs are applicable. To delete all configured SIs and make all SIs applicable, please use:

```
(config-RkGrouping=1)>no si
```

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"]

- To set several DPCs they are to be included in square brackets and separated by comma, for example:

```
(config-RkGrouping=1)> dpc=["ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=1", "ManagedElement=1,Ss7=1,SignalingNetwork=1,RemoteSignalingPoint=2"]
```

- If dpc attribute is empty, it means all DPCs are applicable. To delete all configured DPCs and make all DPCs applicable, please use:

```
(config-RkGrouping=1)>no dpc
```

13. Create the RoutingContext MO, for example:

- a. Navigate to the LocalAs MO, for example:

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

- b. Create the RoutingContext MO:

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

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

2.4 Create Local IP Server Process

Steps

1. Navigate to the M3ua MO, for example:

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

2. Create the LocalIpsp MO, for example:

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

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



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

The following is an example output:

```
LocalIpsp=1
  localAs=[]
  localIpspId=1
  sctpEndpoint=[]
```

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

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

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

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

2.5 Create Remote IP Server Process

Steps

1. Navigate to the LocalIpsp MO, for example:

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

2. Create the RemoteIpsp MO, for example:

```
(config-LocalIpsp=1)>RemoteIpsp=1
```

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

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

The following is an example output:



```
RemoteIpsp=1
  aspIdentifier=0
  aspIdentifierHandling=NO_ASP_ID
  exchangeMode=SINGLE_EXCHANGE_MODE
  localCongestionLevel=3
  messageDiscardLevelShift=0
  networkAppearanceHandling=OFF
  primaryLocalIpAddress=[]
  primaryRemoteIpAddress=[]
  remoteAddresses=[]
  remoteAs=[]
  remoteAspId=0
  remoteIpspId=1
  remotePortNumber=2905
  remoteSctpProfile=[]
  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-RemoteIpsp=1)>**remoteAddresses=1.1.1.1**

— To create several addresses they are to be included in square brackets and separated by comma, for example:

(config-RemoteIpsp=1)>**remoteAddresses=[1.1.1.1,1.1.1.2]**

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

(config-RemoteIpsp=1)>**remotePortNumber=2906**

6. Set the value of the remoteAs attribute. Examples:

(config-RemoteIpsp=1)>**remoteAs=["ManagedElement=1,Ss7=1,M3ua=1,RemoteAs=40001"]**

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

(config-RemoteIpsp=1)>**remoteSctpProfile="ManagedElement=1,Transport=1,Sctp=1,SctpProfile=1"**

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

(config-RemoteIpsp=1)>**remoteSpProfile="ManagedElement=1,Ss7=1,M3ua=1,RemoteSpProfile=1"**

9. Commit the changes:

(config-RemoteIpsp=1)>**commit**



Note: After successful "commit" all recently added MOs (RemoteAs, LocalAs, LocalIpsp, RemoteIpsp) are activated automatically. No additional actions are needed.



Glossary

AS

Application Server

ASP

Application Server Process

DPC

Destination Point Code

ECLI

Ericsson Command-Line Interface

IPSP

IP Server Process

MO

Managed Object

M3-IETF

SS7 MTPL3 & M3UA-IETF

RK

Routing Key

SGP

Signaling Gateway Process

SI

Service Indicator

SPC

Signalling Point Code