

Diameter, Configure Peer Node and Connections

OPERATING INSTRUCTIONS

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1 Description

This instruction describes how to configure one or more Diameter connections from the own node to a peer node.

2 Procedure

2.1 Configure Peer Node and Connections

Prerequisites

- No documents are required.
- No tools are required.
- The following conditions must apply:
 - The unique node identifier, formatted as a case-insensitive, and extended Fully Qualified Domain Name (FQDN). The identifier is composed of the unique node identifier of the peer node to connect to, and the Diameter stack identifier assigned to the own node.
 - The unique identifier of the Diameter connection to configure between the own node and the peer node.
 - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.

Steps

1. Navigate to the **DIA-CFG-PeerNodeContainer** Managed Object (MO), for example:

```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-Application=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-PeerNodeContainer=abc
```
2. Enter Config mode:

```
(DIA-CFG-PeerNodeContainer=abc)>configure
```
3. Create the **DIA-CFG-NeighbourNode** MO, for example:

```
(config-DIA-CFG-PeerNodeContainer=abc)>DIA-CFG-NeighbourNode=node12.ericsson.com\23abc
```



Note: A first connection `conn1` is created automatically with the `DIA-CFG-NeighbourNode` MO.

4. Set attributes `transportLayerType` and `ipAddressesList` of the `DIA-CFG-NeighbourNode` MO, for example.

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc)>transportLayerType=1
```

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc>ipAddressesList="0:10.1.137.2"
```

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc>ipAddressesList="1:2dea::66:2"
```

5. Set any other relevant optional attributes for the `DIA-CFG-NeighbourNode` MO.
6. Enable the `DIA-CFG-NeighbourNode` MO:

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc)>enabled=true
```

7. Commit the settings:

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc)>commit-s
```

8. Verify the peer node configuration result:

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc)>show
```

The following is an example output:

```
DIA-CFG-NeighbourNode=node12.ericsson.com\23abc
connIds
  "0:abc#23node12.ericsson.com#23conn1"
diaVendorId="0"
firmwareRevision="0"
isDynamic=false
ipAddressesList
  "0:10.1.137.2"
  "1:2dea::66:2"
productName=""
realm=""
transportLayerType="1"
DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1
```

9. Navigate to the `DIA-CFG-Conn` MO for the connection `conn1`, for example:

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc)>DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1
```



10. Set any other relevant optional attributes for the connection for the DIA-CFG-Conn MO.

11. Enable the DIA-CFG-Conn MO, for the connection:

```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1)>enable  
d=true
```

12. Commit the settings:

```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1)>commit  
-s
```

13. Verify the connection configuration result:

```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1)>show
```

The following is an example output:

```
DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1  
blockReason="Own Node or Peer Node disabled"  
enabled=true  
linkStatus="Initial"
```

14. Are more connections needed?

Yes: Continue with the next step.

No: Proceed with Step 22.

15. Navigate to the DIA-CFG-NeighbourNode MO:

```
>up
```

16. Create the DIA-CFG-Conn MO for one more connection, for example:

```
(config-DIA-CFG-NeighbourNode=node12.ericsson.com\23abc)>DIA-CF  
G-Conn=abc\23node12.ericsson.com\23conn2
```

17. Set any other relevant optional attributes for the connection for the DIA-CFG-Conn MO.

18. Enable the DIA-CFG-Conn MO for the connection:

```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn2)>enable  
d=true
```

19. Commit the settings:

```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn2)>commit  
-s
```

20. Verify the connection configuration result:



```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn2)>show
```

The following is an example output:

```
DIA-CFG-Conn=abc\23node12.ericsson.com\23conn2
  blockReason="Own Node or Peer Node disabled"
  enabled=true
  linkStatus="Initial"
```

21. Proceed with Step 14.

22. Return to Exec mode:

```
(config-DIA-CFG-Conn=abc\23node12.ericsson.com\23conn2)>end
```