

Configure Peer Node and Connections

OPERATING INSTRUCTIONS

Copyright

© Ericsson AB 2015, 2016. All rights reserved. No part of this document may be reproduced in any form without the written permission of the copyright owner.

Disclaimer

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

Trademark List

All trademarks mentioned herein are the property of their respective owners. These are shown in the document Trademark Information.



Contents

1	Introduction	1
1.1	Prerequisites	1
2	Procedure	3





1 Introduction

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

1.1 Prerequisites

This section describes the prerequisites, which must be fulfilled before using the procedure.

1.1.1 Conditions

The following conditions must apply:

- The following mandatory attributes are known:
 - 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.





2 Procedure

To configure a peer node connection:

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

```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-App
lication=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-PeerNo
deContainer=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-Neighbou
rNode=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\23ab
c) >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\23ab
c) >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) >enabled=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-CFG-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\23conn  
2)>enabled=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\23con  
n2)>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\23conn  
2)>end
```