

vDicos, Diameter Link Disabled

OPERATING INSTRUCTIONS

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vDicos, Diameter Link Disabled



1 Alarm Description

The alarm is raised when the relevant Diameter connection is either administratively disabled by Operation and Maintenance (OAM) or disabled by a peer.

Table 1 vDicos, Diameter Link Disabled Alarm Causes

Alarm Cause	Description	Fault Reason	Fault Location	Impact
Link disabled by O&M	The Diameter connection is disabled by OAM	The link is administratively disabled or a new link is created (disabled by default)	Own node	No traffic flow through the disabled link
Link disabled by peer	The Diameter connection is disabled by the peer	The link is disabled because a Disconnect Peer Request (DPR) was received	Peer	

Note: The alarm is cleared automatically if one of the following alarms is raised:

- *vDicos, Diameter Peer Node Disabled*

Alarms for connections to the peer node are cleared and a new alarm is raised for the peer node.

- *vDicos, Diameter Own Node Disabled*

Alarms for connections (and peer nodes) related to the own node are cleared and a new alarm is raised for the own node.



2 Procedure

2.1 Handle Alarm vDicos, Diameter Link Disabled

Prerequisites

- This instruction references the following documents:
 - *Data Collection Guideline*
 - *vDicos, Diameter Own Node Disabled*
 - *vDicos, Diameter Peer Node Disabled*
- No tools are required.
- The following conditions must apply:
 - The alarm is raised.
 - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.

Steps

1. Check the `additionalText` attribute of the alarm.
2. Select action according to the alarm cause indicated in the attribute text:
 - If the link is disabled by OAM, proceed with Section 2.2 Handle Reason Link Disabled by Operation and Maintenance on page 2.
 - If the link is disabled by the peer, proceed with Section 2.3 Handle Reason Link Disabled by Peer on page 4.

2.2 Handle Reason Link Disabled by Operation and Maintenance

Steps

1. Contact the network or node administrator. Is the node administratively disabled for maintenance reasons?

Yes: Proceed with Step 13.

No: Continue with the next step.
2. Is the alarm raised for a connection acting as responder (incoming connection)?



Yes: Proceed with Step 8.

No: Continue with the next step.

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

```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-App
lication=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-PeerNod
eContainer=abc,DIA-CFG-NeighbourNode=node12.ericsson.co
m\23abc,DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1
```

4. Enable the outgoing connection:

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

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

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

5. Verify the setting:

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

The following is an example output:

```
enabled=true
```

6. Check the link status:

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

The following is an example output:

```
linkStatus=Up
```

7. Is the connection established?

Yes: Proceed with Step 10.

No: Proceed with Step 11.

8. Contact the peer node administrator to enable the connection from the peer node.

9. Proceed with Step 13.

10. Is the alarm cleared?



Yes: Proceed with Step 13.

No: Continue with the next step.

11. Perform data collection, refer to *Data Collection Guideline*.

12. Consult the next level of maintenance support. Further actions are outside the scope of this instruction.

13. Job is completed.

2.3 Handle Reason Link Disabled by Peer

Steps

1. Is the alarm raised for a connection acting as responder (incoming connection)?

Yes: Continue with the next step.

No: Proceed with Step 6.

2. Wait for the peer node to re-establish the connection and reception of a Capabilities-Exchange-Request (CER).

3. Is the alarm cleared?

Yes: Proceed with Step 15.

No: Continue with the next step.

4. Contact the network or peer node administrator to investigate the peer node.

5. Proceed with Step 15.

6. Navigate to the *DIA-CFG-Conn* MO, for example:

```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-Application=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-PeerNodeContainer=abc,DIA-CFG-NeighbourNode=node12.ericsson.com\23abc,DIA-CFG-Conn=abc\23node12.ericsson.com\23conn1
```

7. Check attribute `blockReason`:

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

The following is an example output:

```
blockReason="Not blocked"
```




8. Is attribute `blockReason` of the corresponding connection DPR received, `cause=DoNotWantToTalkToYou`, or DPR received, `cause=Busy`?

Yes: Continue with the next step.

No: Proceed with Step 11.

9. Disable and enable the connection:

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

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

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

Note: The value of attribute `blockReason` is automatically changed to Not blocked.

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

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

10. Verify the setting:

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

```
enabled=true
```

11. Wait for automatic reconnect and sending of CER.

12. Is the alarm cleared?

Yes: Proceed with Step 15.

No: Continue with the next step.

13. Perform data collection, refer to *Data Collection Guideline*.

14. Consult the next level of maintenance support. Further actions are outside the scope of this instruction.

15. Job is completed.