

# Diameter, Configure Realm Routing Table

## OPERATING INSTRUCTIONS

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# 1 Description

This instruction describes how to configure a Realm Routing Table (RRT) in the Diameter application for the following:

- Authorization and Authentication Application Routing
- Accounting Application Routing

The RRT contains routing information, which is used to decide how to process the incoming requests from a particular Diameter application.

The RRT must be configured for the following traffic cases:

- When outgoing messages are sent to the realm
- When the destination host is not specified
- When the destination host is specified, but not present in peer table, that is, among the configured neighbor peers

# 2 Procedure

## 2.1 Configure Realm Routing Table

### Prerequisites

- No documents are required.
- No tools are required.
- The following conditions must apply:
  - For configuration of Authorization and Authentication Application Routing, the appropriate routing information is known.
  - For configuration of Accounting Application Routing, the appropriate routing information is known.
  - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.

### Steps

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



```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-Application=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-RoutingContainer=abc
```

2. Enter Config mode:

```
(DIA-CFG-RoutingContainer=abc)>configure
```

3. Create a DIA-CFG-Drt MO, for example:

```
(config-DIA-CFG-RoutingContainer=abc)>DIA-CFG-Drt=ericsson.com:abc:FALSE
```

4. Commit the settings:

```
(config-DIA-CFG-Drt=ericsson.com:abc:FALSE)>commit
```

5. Navigate to the DIA-CFG-RoutingContainer MO:

```
(DIA-CFG-Drt=ericsson.com:abc:FALSE)>up
```

6. Show the settings:

```
(DIA-CFG-RoutingContainer=abc)>show DIA-CFG-Drt=ericsson.com:abc:FALSE
```

The following is an example output:

```
DIA-CFG-Drt=ericsson.com:abc:FALSE
DIA-CFG-AccReqContainer=accReqContainerName
DIA-CFG-AuthReqContainer=authReqContainerName
```

7. Is it required to configure Accounting Application Routing?

- Yes: Continue with the next step.
- No: Proceed with Step 17.

8. Navigate to the DIA-CFG-AccReqContainer MO, for example:

```
(DIA-CFG-RoutingContainer=abc)>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-Application=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-RoutingContainer=abc,DIA-CFG-Drt=ericsson.com:abc:FALSE,DIA-CFG-AccReqContainer=accReqContainerName
```

9. Enter Config mode:

```
(DIA-CFG-AccReqContainer=accReqContainerName)>configure
```

10. Create a DIA-CFG-AppRouting MO, for example:

```
(config-DIA-CFG-AccReqContainer=accReqContainerName)>DIA-CFG-AppRouting=0:8
```

11. Set attribute action, for example:



```
(config-DIA-CFG-AppRouting=0:8)>action=4
```

12. Set attribute nodeIds, for example:

```
(config-DIA-CFG-AppRouting=0:8)>nodeIds="0:node12.ericsson.com#abc"
```

13. Set the optional attributes, as needed:

- autoFailback
- secondaryNodeIds

14. Commit the settings:

```
(config-DIA-CFG-AppRouting=0:8)>commit
```

15. Verify the settings:

```
(DIA-CFG-AppRouting=0:8)>show
```

The following is an example output:

```
DIA-CFG-AppRouting=0:8
  action="4"
  nodeIds
    "0:node12.ericsson.com#abc"
  secFailoverActive=false
```

16. Is it required to configure the Authorization and Authentication Application Routing?

- Yes: Continue with the next step.
- No: Proceed with Step 25.

17. Navigate to the DIA-CFG-AuthReqContainer MO:

```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-Application=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-RoutingContainer=abc,DIA-CFG-Drt=ericsson.com:abc:FALSE,DIA-CFG-AuthReqContainer=authReqContainerName
```

18. Enter Config mode:

```
(DIA-CFG-AuthReqContainer=authReqContainerName)>configure
```

19. Create a DIA-CFG-AppRouting MO, for example:

```
(config-DIA-CFG-AuthReqContainer=authReqContainerName)>DIA-CFG-AppRouting=0:8
```

20. Set attribute action, for example:



```
(config-DIA-CFG-AppRouting=0:8)>action=4
```

21. Set attribute nodeIds, for example:

```
(config-DIA-CFG-AppRouting=0:8)>nodeIds="0:node12.ericsson.com#abc"
```

22. Set the optional attributes, as needed:

- autoFailback
- secondaryNodeIds

23. Commit the settings:

```
(config-DIA-CFG-AppRouting=0:8)>commit
```

24. Verify the settings:

```
(DIA-CFG-AppRouting=0:8)>show
```

The following is an example output:

```
DIA-CFG-AppRouting=0:8  
  action="4"  
  nodeIds  
    "0:node12.ericsson.com#abc"  
  secFailoverActive=false
```

25. Navigate to the relevant DIA-CFG-RoutingContainer MO, for example:

```
>dn ManagedElement=NODE06ST,XYZFunction=xyz,DIA-CFG-Application=DIA,DIA-CFG-StackContainer=abc,DIA-CFG-RoutingContainer=abc
```

26. Verify the settings:

```
(DIA-CFG-RoutingContainer=abc)>show -r
```

The following is an example output:





```
DIA-CFG-RoutingContainer=abc
routingContainerName="routingContainerName"
DIA-CFG-Drt=ericsson.com:abc:FALSE
DIA-CFG-AccReqContainer=accReqContainerName
DIA-CFG-AppRouting=0:8
action="4"
nodeIds
"0:node12.ericsson.com#abc"
secFailoverActive=false
DIA-CFG-AuthReqContainer=authReqContainerName
DIA-CFG-AppRouting=0:8
action="4"
nodeIds
"0:node12.ericsson.com#abc"
secFailoverActive=false
```