

# Configure Realm Routing Table

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## OPERATING INSTRUCTIONS

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# 1 Introduction

This document 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

## 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:

- 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.





## 2 Procedure

To configure an RRT:

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-D
```



```
rt=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-Routing
```





```
Container=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
```