

Configure Realm Routing Table

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
```