

AppleTalk Module for EIGRP

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Introduction

This document discusses the AppleTalk module for EIGRP.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Configuration

```
appletalk routing eigrp 1
```

```
!--- 1 is a unique router ID, not an autonomous system number.
```

```
int e 0
appletalk cable-range 100-100
appletalk zone SALES
appletalk protocol eigrp
```

Important EIGRP Commands

- **show appletalk eigrp neighbors** – Displays the AppleTalk Neighbor table.
- **show appletalk eigrp topology** – Displays the AppleTalk Topology table.

- **show appletalk eigrp traffic** – Displays the AppleTalk traffic statistics.
- **show appletalk eigrp event** – Displays the AppleTalk Event information.
- **show appletalk private rtmp** – Displays the AppleTalk Routing Table Tree statistics.

Important Debug Facilities

- **debug apple eigrp-all** – Displays all AppleTalk EIGRP functions.
- **debug apple eigrp-packet** – Displays AppleTalk EIGRP packet debugging.
- **debug apple eigrp-update** – Displays AppleTalk EIGRP update functions.
- **debug apple eigrp-redistrib** – Displays AppleTalk route redistribution issues.
- **debug eigrp packets** – Displays all EIGRP packets.
- **debug eigrp fsm** – Displays DUAL FSM activity (Q, R).
- **no appletalk route-redistribution** – Disables the Auto Redistribution.
- **no appletalk protocol rtmp** – Disables RTMP on an interface.

Note: Do not disable RTMP on a LAN interface because AppleTalk nodes rely on RTMP to find their gateways.

Route Selection and Metrics

When comparing RTMP and EIGRP metrics, the router translates the RTMP metric into an EIGRP metric and chooses the best metric.

Redistribution Issues

By default, Automatic Redistribution is enabled between RTMP and AppleTalk–EIGRP. Listed below are some of the redistribution rules:

- **RTMP → EIGRP:**

EIGRP Metric = Bandwidth + Delay

BandWidth = RTMP Hop Count * 252524800

Delay = Interface Delay Value

- **EIGRP → RTMP:**

Every EIGRP router adds to the RTMP Hop Count.

Related Information

- [IP Routing Protocols Support Pages](#)
- [Technical Support – Cisco Systems](#)

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