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## AIR: TCP/IP Tunneling, Tunnel Port Configuration (2/93)

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Security: Everyone

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TOPIC -----

This article describes the Apple Internet Router (AIR) TCP/IP tunneling and TCP/IP tunnel port configuring.

DISCUSSION -----

Installing the software for TCP/IP tunneling is separate from the installation of the Basic Connectivity package of Apple Internet Router. The WAN Extensions installation writes the following files to the target hard disk:

- MacTCP and AdminTCP
- The IPTunnel ADEV
- SNMPTCPTransport
- MacTCP Token Ring Extension (where applicable)

Apple Internet Router uses MacTCP to implement TCP/IP tunneling. Each exterior router is configured as an AppleTalk node and as an IP end node. The exterior routers encapsulate AppleTalk packets in TCP/IP packets and forward them across the TCP/IP network to other exterior AppleTalk routers, which decapsulate them onto their own AppleTalk internets.

From AppleTalk's perspective, TCP/IP is used solely to provide connectivity between exterior AppleTalk routers. Apple Internet Router is not a TCP/IP router or gateway.

TCP/IP tunneling is supported on Ethernet and Token Ring ports. Note that each of these ports can support both AppleTalk routing and TCP/IP tunneling simultaneously.

Configuring a TCP/IP Tunnel Port

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To configure a TCP/IP tunneling port, double-click the IP Tunnel access method under the Ethernet or Token Ring port.

In the IP Tunnel Port Info dialog, you may enter the TCP/IP addresses of all other known exterior Apple Internet Router routers on the TCP/IP network, or a subset of those if you want to limit this router's tunneling partners. These addresses can either be entered as 4-byte quantities in the standard TCP/IP address format, or as TCP/IP names. When entered as names, the TCP/IP Domain Name Service is used to determine the associated TCP/IP address.

Optionally, the administrator can allow any other Apple Internet Router which has been explicitly configured with this router's address to be routed to, without explicitly having that router's address in the list. Tunneling to non-explicitly entered routers is enabled by unchecking the "Use only the host IDs listed" check box.

Note that where the AppleTalk Port Info window had a "Hide..." button, this Port Info window (and the one for DialUp) have an "Options..." button. For more information about the Options... button, search the Tech Info Library for an article titled "Apple Internet Router: WAN Network Options."

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