



# Tech Info Library

## AppleTalk Connection for Macintosh 1.1 (10/94)

Revised: 10/13/94  
Security: Everyone

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Article Created: 13 October 1994

TOPIC -----

AppleTalk Connection for Macintosh provides the newest version of Apple's signature networking software for Macintosh computers.

DISCUSSION -----

AppleTalk Connection includes the AppleTalk transport stack, along with updated software drivers for LocalTalk, Ethernet, and Token Ring. AppleTalk Connection also includes support for SNMP, the industry-standard Simple Network Management Protocol. With MacSNMP, networked Macintosh computers can be managed from a variety of available SNMP-consoles.

With AppleTalk Connection installed, users have a complete foundation for network printing and file sharing, as well as for collaborative and client-server functions such as electronic mail and database service. AppleTalk's unique Name Binding Protocol allows quick and easy access to network resources such as printers and servers by means of user-designated names.

Since its introduction in 1984, AppleTalk has become a widely successful networking standard, with over ten million nodes worldwide. Suitable for both large and small organizations, AppleTalk remains the easiest networking system in the industry to use. AppleTalk software has been implemented on nearly every major hardware, OS, and NOS platform in the industry, including Microsoft DOS, Windows and Windows NT, Novell Netware, and IBM OS/2, as well as many UNIX systems.

Apple also offers AppleTalk Administration for Macintosh, a product that provides comprehensive documentation and utilities for centralized management of the MacSNMP software.

Available through all Apple retail channels, AppleTalk Connection for Macintosh can be purchased as a single-user package or through a convenient and economical multi-user license extension.

## FEATURES

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### Connectivity

- Supports multiple concurrent AppleTalk services
- Supports concurrent use of multiple protocols
- AppleTalk and other protocols can share the same Ethernet or Token Ring interface
- Works with all current Macintosh computers, including Power Macintosh

### Naming & Directory Services

- Provides dynamic, distributed name service
- Provides easy access to network resources using descriptive names
- Provides attributes for remote service identification

### Network Management

- Provides network and system information from Macintosh computers over an AppleTalk network
- Allows administrator to preconfigure and lock the SNMP software (requires AppleTalk Administration for Macintosh)
- Built-in AppleTalk, Network, and Macintosh agents for complete management data availability
- Extensible architecture allows for additional agents and transports from Apple and third parties
- Allows access to SNMP management information over both TCP/IP and AppleTalk protocols when combined with the TCP/IP Connection for Macintosh

### Other Features

- Integrated drivers support all Apple cards and on-board networking, with defined datalink interfaces for third-party cards

## TECHNICAL SPECIFICATIONS

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### AppleTalk Details

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#### Automatic Addressing

AppleTalk devices automatically negotiate among themselves to acquire a unique address; users don't need to learn how to set addresses. Network managers control addressing at the workgroup level, by assigning network number ranges. This significantly reduces the effort required to configure and support AppleTalk as compared to other protocols.

#### Dynamic Naming

AppleTalk network services are located and selected by descriptive names from a dynamic, distributed directory service. Devices may be grouped into logical zones to allow easier access to resources in large internetworks.

#### Dynamic Routing

AppleTalk network routers can discover locally attached networks, other routers, and other internetwork destinations, without extensive manual configuration. AppleTalk routing dynamically adapts to changes in internetwork connectivity. In the event of a communications failure, an alternate network route will

automatically be adopted.

#### MacSNMP Details

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The SNMP agents included in AppleTalk Connection for Macintosh support the following Management Information Base (MIB) definitions:

- The LLAP, AARP, ATPort, DDP, NBP, and ATEcho groups of the AppleTalk MIB (RFC 1243).
- The System, Interfaces, and SNMP groups of the TCP/IP MIB-II (RFC 1213).
- The Macintosh System MIB.

MacSNMP supports multiple network transports. To manage Macintosh computers using TCP/IP protocols, you need TCP/IP Connection for Macintosh.

#### System Requirements

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- A Macintosh Plus or later model Macintosh computer with the appropriate datalink such as built-in LocalTalk or Ethernet, or a networking card such as the Apple Ethernet NB Card, Apple Ethernet LC Card, or the Apple Token Ring 4/16 NB Card, or compatible card.
  - A 1.44 MB floppy disk drive such as the Apple SuperDrive.
  - To use the AppleTalk software, you need System 6 (6.0.5 or later) or System 7 and at least 2 MB of RAM.
  - To use the MacSNMP software, you need System 7 or later (4 MB of RAM recommended). You also need an SNMP Console that supports AppleTalk, such as those available from Neon Software (LANSurveyor) or Intercon (WatchTower).

#### ORDERING AND LICENSING INFORMATION

##### ----- AppleTalk Connection for Macintosh

Single-user package (Order No. M8069Z/B)

- AppleTalk protocol stack
- Datalink drivers
- MacSNMP Client
- Macintosh, AppleTalk, Network agents and MIBs
- AppleTalk Connection Installation and User's Guide
- 20-user license extension (Order No. M8065Z/B). License extension contains no software.

##### AppleTalk Administration for Macintosh

Single-user package (Order No. M8066Z/B)

- Complete AppleTalk Connection for Macintosh
- MacSNMP Admin (SNMP configuration) software
- About AppleTalk Administration
- AppleTalk Connection Installation and User's Guide
- MacSNMP Administrator's Guide
- Planning and Managing AppleTalk Networks

##### TCP/IP Connection for Macintosh

Single-user package (Order No. M8113Z/B)

- TCP/IP protocol stack

- Datalink drivers
- MacSNMP Client
- Macintosh, TCP/IP, and Network agents and MIBs
- TCP/IP Connection Installation and User's Guide  
20-user license extension (Order No. M8115Z/B). License extension  
contains no software.

MacSNMP Developer's Kit

Available on the Essentials•Tools•Objects (E.T.O.) CD-ROM from APDA.  
(Order No. M0895LL)

Support Information Services

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Tech Info Library Article Number:16523