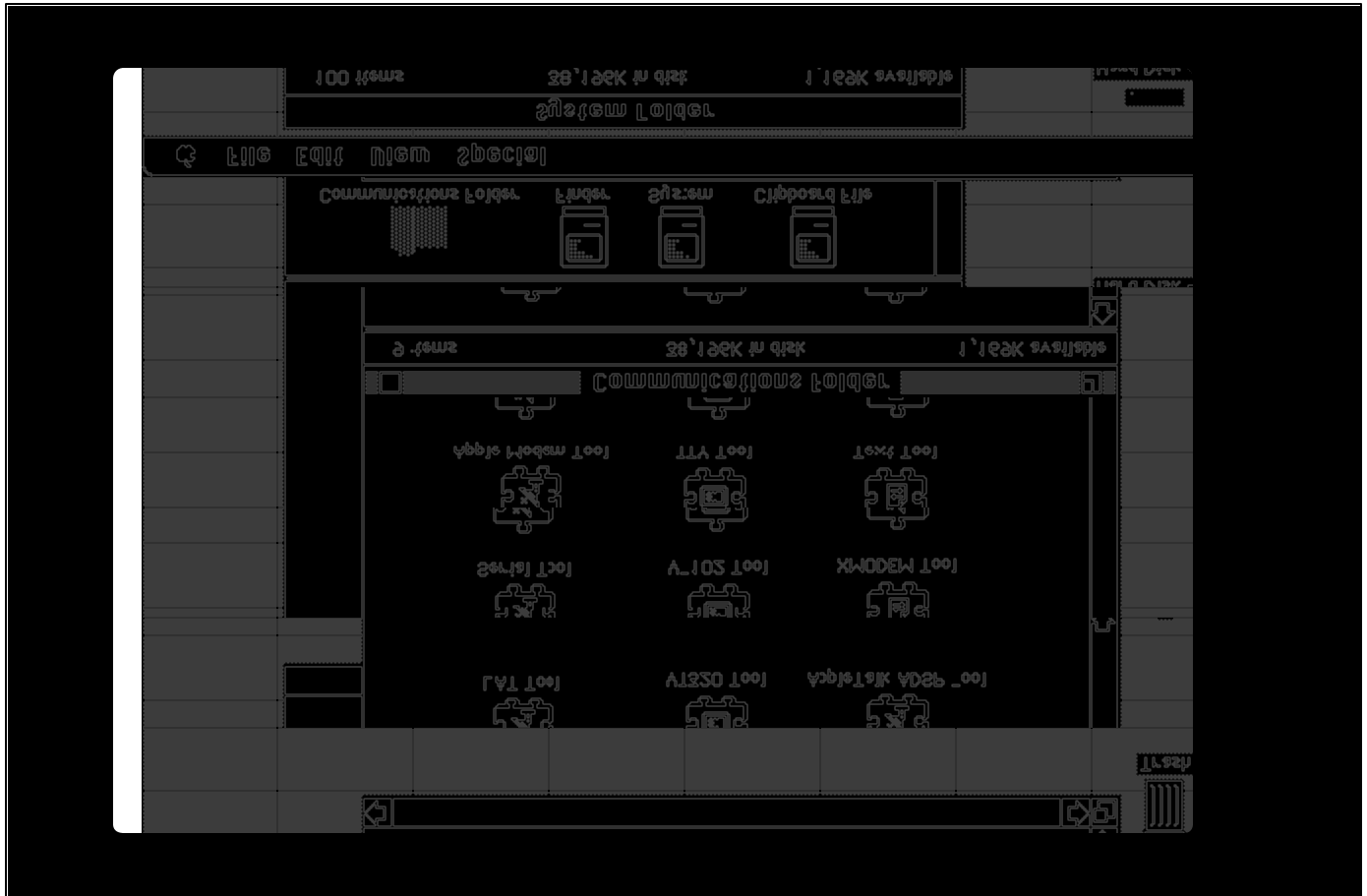


Communications Tools for the Macintosh Communications Toolbox



Overview

Communications Tools for the Macintosh® Communications Toolbox enable applications to provide connection, terminal emulation, and file transfer capabilities to users. Each communication tool provides the application with a specific communications function; for example, the VT102® Terminal Emulation Tool provides applications with VT102 terminal emulation capabilities.

There are three types of communication tools: connection tools, terminal emulation tools, and file transfer tools.

Connection tools define the type of connection that is established between a Macintosh and another computer. Terminal emulation tools determine the

type of terminal a Macintosh computer emulates during the communication session. File transfer tools implement the protocol used to ensure that files are transferred intact.

Features

Benefits

- Contains popular terminal emulation, file transfer, and connection tools

- Provides Macintosh applications that support the Macintosh Communications Toolbox with basic functionality for communicating and exchanging data with other computers.

- Intuitive, consistent user interfaces for accessing and setting up networks and services

- Allows users to select and configure communication tools easily across all Communications Toolbox applications.

- Open, modular, extensible design

- Enables users to add new functionality to applications.
- Allows developers to create new tools supporting other communications environments.

Product Details

Macintosh Communications Toolbox

The Macintosh Communications Toolbox is system software that provides applications with standard access to communications services, including connection, terminal emulation, and file transfer protocols. An integral part of Macintosh system software, the Macintosh Communications Toolbox consists of four key managers: the Connection Manager, Terminal Manager, File Transfer Manager, and Communications Resource Manager. These managers work together with the communications tools created by Apple and other companies to provide applications with standard communications functions.

The Macintosh Communications Toolbox also makes communications capabilities much easier for people to use because all applications written according to its standard will provide the same, familiar Macintosh look and feel.

The Apple Modem and Serial Connection Tools support any NuBus[®] communications devices (such as serial or modem cards) that are registered with the Communications Resource Manager of the Macintosh Communications Toolbox. The selection and operation of these cards are controlled through the appropriate connection tool setup dialog boxes.

Basic Connectivity Set of Tools
The Basic Connectivity Set includes the following terminal emulation, file transfer, and connection tools:

Teletype (TTY) Terminal Tool

- Foremulating a basic, fixed-function terminal.

VT102 Terminal Tool

- Foremulating a standard Digital Equipment Corporation text-only terminal. Provides full-featured DEC[®] VT102 terminal emulation except for local printer control. Includes intuitive Macintosh interface for easy configuration. Supports double-high, double-wide characters and bold and blinking text.

Text File Transfer Tool

- Provides a basic way to send ASCII text files. Allows specification of intercharacter and interline delay.

XMODEM File Transfer Tool

- File transfer method that includes error-checking and correction. Also supports XMODEM variation methods: MacBinary, MacTerminal 1.1, Straight XMODEM, and XMODEM Text. Includes these transfer options: CRC-16, 1K blocks, CleanLink.

Serial Connection Tool

- Primarily for direct synchro-

nous connection between computers. Provides access to built-in serial ports and all serial cards that are registered with the Communications Resource Manager of the Communications Toolbox.

- Transmission speed: 50 to 57,600 baud
- Character length: 5 to 8 data bits; 1, 1.5, 2 stop bits
- Parity: even, odd, none
- Handshake: XON/XOFF, DTR and CTS, DTR only, CTS only, none

Apple Modem Connection Tool

- Foreestablishing a connection through any Apple Modem or other Hayes-compatible modem attached to all registered Macintosh serial ports. Provides access to all serial and modem cards that support the Communications Resource Manager of the Communications Toolbox.
 - Transmission speed: 110 to 57,600 baud
 - Character length: 5 to 8 data bits; 1, 1.5, 2 stop bits
 - Parity: even, odd, none
 - Handshake: XON/XOFF, none
- AppleTalk[®] ADSP

Connection Tool

- Foreestablishing a connection to another computer on an AppleTalk internet using the AppleTalk ADSP protocol. Requires AppleTalk network connection (for example, LocalTalk[®], EtherTalk[®], or TokenTalk[®]), and ADSP driver version 1.0.2 or later installed in System Folder.

Other Tools

VT320[®] Terminal Tool

- Foremulating DEC text terminal that offers additional functionality, including support for international character sets and function and editing keys. Also includes support for downloadable character sets.

LAT Connection Tool

- Foreestablishing access to LAT (Local Area Transport), a DEC proprietary protocol designed for efficient handling of terminal traffic over Ethernet networks. It is the recognized method for network-based connections of terminals to VAX systems.



Communications Tools for the Macintosh Communications Toolbox

System Requirements

- Macintosh system software version 6.0.4 (or later)
- A Macintosh Plus, Macintosh SE or SE/30, or any Macintosh II computer with at least 1 megabyte of memory (2 MB recommended)
- In addition to the above system requirements, you'll need the following for specific connection tools:
 - *Apple Modem Connection Tool*: An Apple modem or other Hayes-compatible modem and appropriate cable
 - *Serial Connection Tool*: Appropriate cabling to attach a Macintosh to another computer
 - *AppleTalk ADSP*
 - *Connection Tool*: AppleTalk network connection (for example, LocalTalk, EtherTalk or TokenTalk) and ADSP driver version 1.0.2 or later installed in System Folder
 - *LAT Connection Tool*: Requires an Ethernet connection and LAT drivers installed in System Folder

Availability

The Communications Tools for the Macintosh Communications Toolbox are available through APDA[®] and Developer Tools Express:

APDA (Apple Programmers and Developers Association) and Developer Tools Express

Apple Computer, Inc.
20525 Mariani Avenue, MS33G
Cupertino, CA 95014-6299 U.S.A.
(800) 282-2732 (U.S.A.)
(800) 637-0029 (Canada)
(408) 562-3910 (International)
AppleLink[®]: APDA

NOTE: You will need a license for commercial or site distribution of these tools and the accompanying user documentation. This license can be obtained from:

Apple Software Licensing
Apple Computer, Inc.
20525 Mariani Avenue, MS38-I
Cupertino, CA 95014-6299 U.S.A.
408-974-4667 AppleLink:
SMLICENSE

Ordering Information

Basic Connectivity Set of Tools
Order No. M0379LL/B

With this order you'll receive

- One 800K disk containing seven tools
- One 800K disk containing a sample Communications Toolbox application
- Sample user tools documentation (hard copy)
- Single-user license

NOTE: A commercial distribution license is included with this package. Upon receipt of your completed agreement, you will be sent disks containing unformatted text files of the user tools documentation for the Basic Connectivity Set.

Related Products

VT320 Terminal Emulation Tool Order No. M0801LL/A	LAT (Local Area Transport) Connection Tool Order No. M0800LL/A	
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Macintosh Communications Toolbox Order No. M0232LL/D	Macintosh Communications Toolbox: Source Code Order No. M0380LL/B	ADSP: AppleTalk Data Stream Protocol Development Kit v. 1.0.2. Order No. C0007LL/B

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