



# MacTCP



With MacTCP software, developers can create Apple Macintosh applications and solutions for network environments that use the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol suite—a set of standards widely used for networking heterogeneous systems. MacTCP implements the User Datagram Protocol (UDP), TCP, and IP protocols, and conforms to Internet RFCs and MIL-STDs. This conformity ensures interoperability with systems on the TCP/IP Internet. MacTCP is co-resident with the AppleTalk protocols and runs over both Ethernet- and LocalTalk-compatible cable systems. It can be installed on a Macintosh Plus or later model Macintosh computer and is compatible with either system software version 6.0.5 (or later) or version 7.0.

## Features and Benefits

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|---|---|
| > TCP/IP protocol driver implementation                             | > Provides a standard platform for developing TCP/IP applications and solutions.  |
|   | > Supports multiple, concurrent TCP/IP services.  |
| > Compatible with Macintosh Plus or later model Macintosh computers | > Lets third-party developers create applications that can run on a range of Macintosh computers.   |
| > Concurrent TCP/IP and AppleTalk operation                         | > Preserves full access to AppleTalk services. For example, users can run MacTCP while printing to an Apple LaserWriter printer over LocalTalk cable. |
| > Both C and assembly language interfaces                           | > Provides developers with a familiar development environment.  |
| > Address configuration using the Control Panel interface           | > Simplifies installation and setup procedures for users and network administrators.  |
| > Apple-supported driver  | > Makes technical assistance available for certified Apple developers.  |



## System Requirements and Product Details

### LocalTalk-compatible Systems

- For LocalTalk-compatible systems, you need
- > A Macintosh Plus or later model Macintosh computer
  - > System software version 6.0.5 or later and at least 1 megabyte (MB) of memory, or system software version 7.0 and at least 2 MB of memory
  - > Appropriate LocalTalk-compatible cable connectors
  - > A router with AppleTalk and TCP/IP support, such as the Shiva Corporation FastPath 5 or the Cayman Systems GatorBox CS

### Ethernet-compatible Systems

- For Ethernet-compatible systems, you need
- > A Macintosh Plus or later model Macintosh computer
  - > System software version 6.0.5 or later and at least 1 MB of memory, or system software version 7.0 and at least 2 MB of memory
  - > An appropriate Ethernet interface card such as the Apple Ethernet NB Card

MacTCP consists of object code libraries and associated files for both C and assembly language development. Libraries include TCP and UDP interfaces along with a name-to-address resolver. A programmer's reference guide and an administrator's guide are provided.

The MacTCP driver allows for the addition of other data link layers through the use of a link layer interface between the IP layer and the data link layer of MacTCP. Examples of these data link layers include Token Ring (IEEE 802.5), Serial Line Internet Protocol (SLIP)-RFC 1055, and Point-to-Point Protocol (PPP)-RFCs 1171 and 1172. The link layer interface is described in the reference document *Building Alternate Link Access Protocol Modules for MacTCP*, which is available to Apple Partners and Apple Associates through the Developer's CD Series. For information on how to become a certified Apple Partner or Apple Associate, call Developer Services at (408)974-4897.

MacTCP implements the following protocols:

- > IP (RFCs 791, 894; MIL-STD 1777)
  - > UDP (RFC 768)
  - > TCP (RFC 793; MIL-STD 1778)
  - > ARP (RFC 826)
  - > RARP (RFC 903)
  - > ICMP (RFC 792)
  - > BootP (RFCs 951, 1048)
  - > RIP (IDEA 004)
  - > DNS (RFCs 1034, 1035)
  - > Internet Subnetting (RFC 950)
  - > Internet Assigned Numbers (RFC 1010)
- MacTCP complies with Requirements for Internet Hosts-Communication Layers (RFC 1122)
- Throughput is 3.0 megabits per second memory-to-memory (on a Macintosh II-family computer over Ethernet).

## Ordering Information

MacTCP is available for evaluation as a single-user Developer's Kit. The documentation can also be purchased separately. A license is required for commercial distribution or internal company use. See the following product listings for details.

### MacTCP Developer's Kit

- (single user license)  
Order number M0704/C  
Available from APDA
- > MacTCP software
  - > *MacTCP Programmer's Guide*
  - > *MacTCP Administrator's Guide*
  - > Disks containing the text and illustrations from the administrator's guide

### MacTCP Documentation Kit

- Order number M0217LL/B  
Available from APDA
- > *MacTCP Programmer's Guide*
  - > *MacTCP Administrator's Guide*

APDA offers convenient worldwide access to over 300 development tools, resources, training products, and information for anyone interested in developing applications on Apple platforms.

*To order products or get additional information, contact*

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