MacTCP 1.x: System Requirements and Product Details

This article gives the system requirements for using MacTCP, and details about what MacTCP offers.

This article has been archived and is no longer updated by Apple.

System Requirements

LocalTalk-compatible systems

- A Macintosh Plus or later model Macintosh computer
- System software version 6.0.5 or later and at least 1MB of memory, or system software version 7.0 and at least 2MB 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

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

Product Details

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, available to Apple Partners and Apple Associates through the Developer CD Series.

Protocols

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 (IDEA004)
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).

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