



Tech Info Library

Open Transport 1.1.1 Read Me - Part 1 (12/96)

Revised: 12/20/96
Security: Everyone

Open Transport 1.1.1 Read Me - Part 1 (12/96)

=====
Article Created: 16 October 1996
Article Reviewed/Updated: 20 December 1996

TOPIC -----

This article is the Open Transport 1.1.1 ReadMe - Part 1 file.

DISCUSSION -----

Open Transport 1.1.1 Read Me - Part 1

Introduction
=====

This Read Me document contains late-breaking information about Open Transport compatibility, add-on software, and solutions to known problems with third-party software. For instructions about how to use the Open Transport control panels (AppleTalk and TCP/IP), see the Open Transport User's Guide. For additional technical information about Open Transport, see the "Open Transport Technical Info" file that came with Open Transport.

Contents
=====

- License agreement
- Network interface options
- Before you install Open Transport 1.1.1
- How to turn off or remove Open Transport 1.1.1
- General compatibility
- Apple product compatibility update
- Dialup network connectivity - AppleTalk
- Dialup network connectivity - TCP/IP
- Tips for SLIP and PPP configurations
- What's new in Open Transport 1.1.1 - general
- What's new in Open Transport 1.1.1 - AppleTalk

What's new in Open Transport 1.1.1 - TCP/IP
Known limitations and other issues
System 7.5.3 notes

License agreement
=====

This release of Open Transport is subject to the terms and conditions of the license agreement that accompanies the software in the file "LICENSE." By downloading the software you agree to abide by the terms and conditions of the license agreement.

System requirements
=====

Open Transport is designed to work on Mac OS-compatible computers with a Motorola 68030 or 68040 family microprocessor, or a PowerPC 601, 603(e), or 604 microprocessor. You should use system software version 7.5.3, 7.5.5 or later with Open Transport, although the earlier system software versions 7.1, 7.1.1 and 7.1.2 releases are also compatible.

Open Transport 1.1.1 can be used on the Performa and Power Macintosh 52xx, 53xx, 62xx and 63xx product lines. When you install OT1.1.1 on a 52xx, 53xx, 62xx and 63xx model you may get a dialog box indicating a hardware issue was detected. If this alert is displayed, Open Transport cannot be installed or loaded until the Cache/ROM DIMM is replaced. Your computer will continue to run classic networking. The required repairs are covered under the Apple repair extension program. Please contact an Apple-authorized service provider to have your computer repaired.

Open Transport requires a minimum of 5 MB of RAM (68030 or 68040 computers) or 8 MB of RAM (PowerPC-based computers). Open Transport memory requirements are based on total system memory including virtual memory, minus the size of any RAM disk and disk cache you're using.

Network interface options
=====

Open Transport 1.1.1 supports PCI bus, NuBus, communications slot, and PC Card network interface cards, as well as built-in LocalTalk, Ethernet, and Token Ring network adapters. For computers without expansion options, Open Transport 1.1.1 also supports a SCSI-attached network adapter. Third party network interface options available for Open Transport include Fast Ethernet, ATM, and FDDI.

Before you install Open Transport 1.1.1
=====

- Read the section "Known Limitations and Other Issues" below to make sure Open Transport 1.1.1 will work on your computer.

- Make backup copies of the software and documents on your hard disk (especially your System Folder) before installing this software.
- For best results, you should install Open Transport 1.1.1 over Open Transport 1.1 and not over a beta version of 1.1.1. Several beta test sites have experienced problems when updating over a beta release. If you choose to install Open Transport 1.1.1 over a beta version, be sure to copy and save your prefs file.
- Turn on only those extensions installed with your system software. (Open the Extensions Manager control panel and select System 7.5.3 from the Sets pop-up menu, then restart your computer.) Do not turn off all extensions before installing Open Transport.
- Performa and Power Macintosh 52xx, 53xx, 62xx and 63xx models using System 7.5.3 can install Open Transport 1.1.1 directly. Other supported systems must install Open Transport 1.1 and system software version 7.1, 7.1.1, 7.1.2 or 7.5.3 before updating to version 1.1.1.
- If you use SLIP or PPP software to access the Internet, verify that your SLIP or PPP software is compatible with Open Transport. See the section under "Dialup network connectivity - TCP/IP."
- When Open Transport is installed, the Network control panel is replaced by the AppleTalk configuration utility program. The MacTCP control panel is replaced by the TCP/IP configuration utility program. Both AppleTalk and TCP/IP are located in the Control Panels folder. For simplicity and consistency, user documentation generally refers to AppleTalk and TCP/IP as "control panels" even though technically they are utility programs.
- You should download a copy of System 7.5, Update 2.0 to your hard disk or have a copy of the Open Transport 1.1 retail package available. This will give you the software to reinstall Open Transport 1.1 in case you decide to remove Open Transport 1.1.1.

How to turn off or remove Open Transport 1.1.1

=====

Switching to Classic Networking

If your computer does not have a PCI bus, and is using system software version 7.5.3, you can use the Network Software Selector (NSS) utility to turn on classic networking instead of Open Transport. The NSS utility is installed in the Apple Extras folder when you install System Update 2.0. After selecting classic networking, close NSS and restart your computer. When your computer starts up again, open the Network control panel and choose the network connection you want to use.

Removing Open Transport with the Installer

You can remove Open Transport software with the Custom Remove option in the

Installer. However, the Custom Remove option removes a file called the Apple Shared Library Manager (ASLM). If any previous version of ASLM was installed, it was automatically updated to version 2.0.1 when you installed Open Transport 1.1.1. When you remove Open Transport, your previous version of ASLM is not automatically restored.

After removing Open Transport 1.1.1, you must reinstall any applications that rely on ASLM.

To remove Open Transport 1.1.1 using the Installer, follow these steps:

1. Open the Installer included with Open Transport 1.1.1. The Welcome screen appears.
2. Click OK.
3. In the window that appears, choose Custom Remove from the pop-up menu in the upper-left corner.
4. In the list that appears, click the box next to Open Transport so an 'X' appears in it.
5. Click Remove. If a window appears asking you whether to quit any open applications, click Continue. A window will appear telling you to restart your computer.
6. Click Restart.
7. On a Power Macintosh system with PCI bus, you will then need to reinstall Open Transport 1.1 software using either (1) the System 7.5, Update 2.0 installer, (2) the Open Transport 1.1 installer, or (3) a system software CD. If you use the system update installer or the system software that came with your computer, perform a custom install of the network software.
8. On a Macintosh system without PCI bus, classic networking will be restored and made active.

Open Transport Extras Folder

=====

• This release also contains an Open Transport Extras folder which includes the following files for your convenience:

- Claris EMailer 1.1v3 patcher
- MacPPP 2.5 software files
- Remote Only ADEV software
- Network Options for AppleTalk & TCP/IP
- the Open Transport Reference Q & A
- the Open Transport User's Guide

General compatibility

=====

Open Transport is compatible with:

- existing applications that use AppleTalk as specified by Apple Computer, Inc.
- existing applications that use MacTCP as specified by Apple Computer, Inc.
- existing devices (such as printers) that you select in the Chooser

- existing NuBus network interface cards for the Mac OS

Computers running Open Transport can be added to an existing AppleTalk or TCP/IP network without upgrading other computers on the network.

Apple product compatibility update

=====

- At Ease version 2.x or 3.x may encounter problems when starting up with Open Transport. Apple has released an updater utility ("At Ease Basic OT Updater") on Apple Software Update sites on the Internet and selected online services. If you are using At Ease for Workgroups, you should upgrade to version 3.0.2.
- Assistant Toolbox version 1.2 is not compatible with Open Transport, and will result in AppleTalk being turned off each time you restart your system. System 7.5.3 includes an updated version of Assistant Toolbox that is compatible with Open Transport.
- The Apple PCI Token Ring Card (M3904Z/A) requires Open Transport 1.1 or later. The Apple PCI Token Ring card is compatible with Power Macintosh 7500, 8500 and 9500 computers; it is not compatible with 7200/75 and 7200/90 computers.
- Apple LaserWriter Bridge and LocalTalk Bridge versions 2.1f2 or later are compatible with Open Transport.
- Apple Internet Dialer 1.0, part of the Apple Internet Connection Kit 1.0 (stock number M4276LL/A), is not fully compatible with System 7.5.3. This is corrected in AICK 1.1 (stock number 504081U). AICK customers with version 1.0 can update their software by downloading a "patcher" from the Apple Internet Connection Kit home page, available at <http://www.online.apple.com/kit1/>.
- Apple Internet Mail Server 1.1 or later software is compatible with Open Transport 1.1 and later. System Update 2.0 (System 7.5.3) is strongly recommended.
- Apple Remote Access (ARA) Multiport Server 2.1, ARA Client 2.0.1, and ARA Personal Server 2.0.1 are compatible with Open Transport 1.1 and later.
- Apple PCI-based Workgroup servers (Application, AppleShare, and Internet) are compatible with Open Transport 1.1.
- Computers running the current versions of Apple IP Gateway and AppleTalk Internet Router must not be updated to Open Transport; these products are based on classic networking. These products do, however, interoperate with computers using either classic or Open Transport networking. Apple has not yet announced plans regarding future versions of these products.
- Apple's MacTCP Ping is not compatible with Open Transport; no update is planned. MacPing from Dartmouth, available at <ftp://ftp.dartmouth.edu>, OTTool from Neon Software, available at <ftp://ftp.neon.com> and Mac TCP Watcher v2.0 from Peter N. Lewis & Stairways Software available at <ftp://ftp.share.com> are Open Transport-compatible alternatives.

NOTE: This note is not part of the original Read Me file. MacTCP Ping 2.0.2 will work for simple pings, but other functions, like record route fail with no explanation.

- ZapTCP is not compatible with Open Transport.

Dialup network connectivity - AppleTalk

=====

For dialup connectivity to AppleTalk networks, Open Transport supports Apple Remote Access version 2.0.1 or later.

Dialup network connectivity - TCP/IP

=====

For dialup connectivity to TCP/IP networks (including the Internet) Open Transport supports third-party extensions known as "MDEVs." Serial Line Interface Protocol (SLIP) and Point to Point Protocol (PPP) connectivity are provided in this manner. Not all versions of all MDEVs are compatible with Open Transport 1.1 and later.

Open Transport 1.1 and later recognizes and is compatible with the following MDEVs. When properly installed they appear in the "Connect via" pop-up menu in the TCP/IP control panel.

- FreePPP - version 1.0.5 or later

FreePPP is shareware and can be found on the Internet, typically at "info-mac" mirror sites in the comm/tcp/conn directory. A list of info-mac mirror sites can currently be found at:
<<http://www.pht.com/info-mac/mirror-list.html>>

Some sites where FreePPP can be found currently include:

<<ftp://mirrors.aol.com/pub/info-mac/comm/tcp/conn/>>
<<ftp://mirror.apple.com/mirrors/Info-Mac.Archive/comm/tcp/conn/>>

FreePPP versions prior to 2.5 may experience problems when running with virtual memory turned on (including RAM Doubler). If you have problems using FreePPP with VM, either update to FreePPP 2.5, or temporarily turn VM off. The current version of FreePPP is 2.5rf.

- MacPPP - version 2.1.4 or later (MacPPP 2.5 is recommended)

MacPPP versions prior to 2.5 may experience problems when running with virtual memory turned on (including RAM Doubler). If you have problems using MacPPP with VM, either update to MacPPP 2.5, or temporarily turn VM off.

An Open Transport-compatible version of MacPPP (MacPPP 2.5) is included in the Open Transport Extras folder. For more information, please refer to the MacPPP Read Me document.

- InterPPP - version 1.2.9 or later; InterPPP II - version 1.1 or later
InterPPP and InterPPP II are commercial software products. For availability and ordering information in the U.S., contact InterCon Systems at 800-468-7266 or 703-709-5500.
- MacSLIP - version 3.0.3 or later
MacSLIP is commercial software developed by Hyde Park Software. For availability and ordering information in the U.S., contact TriSoft at 800-531-5170 or 512-472-0744. For more details see the MacSLIP Web page at <<http://www.zilker.net/~hydepark/>>
- Sonic PPP - version 1.0.2 or later
SonicPPP is commercial software developed by Sonic Systems, Inc. For availability and ordering information in the U.S., contact Sonic Systems at 408-736-1900 (voice) 408-736-7228 (fax). For more details see the Sonic Systems Web page at <<http://www.sonicsys.com/>>
- NTS PPP - 2.0 or later
NTS PPP is commercial software developed by Network Telesystems, Inc. For availability and ordering information in the U.S., contact Network Telesystems at 408-523-8100 (voice) 408-523-8818 (fax). For more details see the Network Telesystems Web page at <<http://www.nts.com/>>
- SAT/SAGEM PPP - 1.02b1 or later
SAT/SAGEM PPP is commercial software developed by SAT/SAGEM. For availability and ordering information in the US, contact SAT/SAGEM at 408-446-8690 (voice) 408-446-9766 (fax). For more details see the SAGEM Web page at <<http://www.satusa.com/>>
- LeoTCP - 2.0.1 or later
LeoTCP is commercial software developed by Hermstedt GmbH. For availability and ordering information in the U.S., contact Hermstedt USA at 1-800-828-5522 (voice). In Europe contact Hermstedt GmbH at +49 621-76500 (voice) +49 621-7650100 (fax).
- T-Online CSLIP - version 1.0.3 or later
T-Online CSLIP is commercial software developed by Computer Consulting GbR. For availability and ordering information in Europe, contact format network & communication at 49 2206 95840. For more details, contact format network & communication at info@format.de.
- University of Michigan ISDN PPP - 2.0.6 or later
- OT/PPP - version 1.0f1c9 or later
Open Transport supports extensions that uses the STREAMS architecture. Apple Computer is developing a version of PPP that takes advantages of this capability. A beta version of OT/PPP 1.0 is available from the "unsupported" folder of Apple Software Updates sites and requires OT 1.1.1.

In addition to these, there are a number of other MDEVs (examples include those from Pacer, FCR, and Tribe) which are indistinguishable from one another to Open Transport. When installed, these appear in the "Connect via" pop-up menu as

"TCP/IP PPP."

Tips for SLIP and PPP configurations

=====

- Some MDEVs are known to be incompatible with other MDEVs. If you experience problems, remove unused MDEVs so that only one MDEV is installed on your computer at a time.

- Users who dial into a TCP/IP network or Internet Service Provider (ISP) may have been assigned a router (gateway) address that is not a part of their local subnet. This was an accepted but technically invalid configuration for MacTCP. Open Transport users should not enter a value for the router address or subnet mask; Open Transport/TCP generates correct values for these fields automatically. In unusual circumstances, these supplied values can be overridden using the Administration mode of the TCP/IP control panel.

- If BootP is used over SLIP or PPP for interface configuration, and if BootP returns additional default router addresses, Open Transport will automatically add those addresses to the list of default routers.

- When Open Transport is installed on a computer that previously had MacTCP configured for a server configuration, the initial configuration method—the selection in the "Configure" pop-up menu in the TCP/IP control panel—is set for the use of a BootP server. This default may not be the appropriate choice for you; please verify.

- If your computer was previously configured for MacTCP "server" addressing and you experience connection difficulties using PPP or SLIP after installing Open Transport, follow these steps:
 1. Open the TCP/IP control panel.
 2. Choose Using PPP Server or Using SLIP from the Configure pop-up menu.
 3. Close the TCP/IP control panel, and save changes when prompted.
 4. Try connecting again.

- If your computer was previously configured for MacTCP "manual" addressing and you experience connection difficulties using PPP or SLIP after installing Open Transport, follow these steps:
 1. Open the TCP/IP control panel.
 2. Choose Manual from the Configure pop-up menu.
 3. Verify that the correct IP address is entered in the Address field.
 4. Close the TCP/IP control panel, and save changes when prompted.
 5. Open the configuration utility supplied with your SLIP or PPP software, and verify that it also reflects the correct IP address in the appropriate location. Refer to the documentation supplied with your SLIP or PPP software for further information on how to enter an IP address, and how to save an updated configuration.
 6. Try connecting again.

NOTE: In MacPPP's ConfigPPP control panel, this setting is entered in the IPCP

..TIL20535-Open_Transport_1-1-1_Read_Me_-Part_1_12-96_(TA36109).pdf

dialog box. Refer to the documentation that came with MacPPP or FreePPP for additional information.

For additional information, see the file OT 1.1.1 Read Me - Part 2.

Article Change History:

20 Dec 1996 - Added MacTCP Ping note.

23 Oct 1996 - Changed distribution status.

Copyright 1996, Apple Computer, Inc.

Tech Info Library Article Number:20535