



# Tech Info Library

## AppleTalk Internet Router: Setup Considerations

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These are some items to keep in mind when setting up the AppleTalk Internet Router:

### Memory Considerations

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- In general 1MB of RAM is sufficient for running the router. However, you should consider the following exceptions:

- You must use 2MB of RAM when running the router concurrently with the AppleShare File Server. You can add memory beyond 2MB, but that only increases performance of the file server and not of the router. The reason is that the file server uses all additional memory for its RAM cache.

- It is recommended that you use 2MB of RAM to run the router and the AppleShare Print Server or the router and a mail server package concurrently. As long as you have 2MB of RAM, you can also run the router, the AppleShare File Server, and any single foreground application, like a print server.

- To avoid memory problems, do not use MacroMaker on a 1MB router machine.

- Be aware that having MacsBug (or any other debugger) active reduces the amount of memory available to the router. Do not run MacsBug on a 1MB router machine or on a router that is also running the AppleShare File Server.

- To avoid memory problems, do not use 32-bit QuickDraw on a 1MB router machine.

- Best use of memory can be obtained by minimizing the INITs and desk accessories that run concurrently with the router.

- Because of the way MultiFinder runs desk accessories, we recommend that you run the router in single Finder. MultiFinder runs desk accessories in the system heap. This means that when you use the router desk accessory under MultiFinder, you are more likely to run out of memory, because the router driver and any other concurrently running process take memory from the system heap.

## Printing

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Note that the following considerations refer to printing from the router machine. These considerations do not refer to a workstation printing, even if it reaches a printer through a router.

- Avoid background printing on a router machine. When Print Monitor opens a printer driver, it uses up memory; the router desk accessory may then run out of memory.
- Do not attempt 32-bit color printing from a router machine.
- Be aware that the 6.0 LaserWriter driver takes up much more memory than the 5.2 driver. Avoid using the 6.0 LaserWriter driver on a 1MB router machine. Also avoid using the 6.0 LaserWriter driver, when running the router and the AppleShare File Server concurrently.

## INITs and Desk Accessories

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- INITs and desk accessories are not always well-written. They sometimes use up memory behind the operating system's back. Try to live with as few of them as possible.
- Close unneeded desk accessories. This includes the Chooser, which would otherwise continually broadcast look-up requests on the network.
- Responder is OK when installed with the Router.

## Upgrade Utility

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- If a Phase 1 router is introduced to the internet after the routers have been running in Phase 2 mode with network ranges for at least 15 minutes, the Phase 2 routers issue an alert and do no conversion. You must restart the router Macintoshes with the Upgrade Utility installed to restart the conversion.

## System Software

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- The Router has been tested with System 6.0.3 and will be tested with future releases. Older systems are not recommended.

## Hard Disks

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- The Router is RAM based. A faster hard disk will not cause faster routing of packets. (Improvements can be seen when using a faster hard disk with the AppleShare File Server).

## EtherTalk Card

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- You should use a revision J or later EtherTalk card with the router.
- An improperly terminated EtherTalk card or a break in the EtherTalk cable causes the router to take a very long time to load. An EtherTalk card not connected to a cable must have a BNC "T" connector attached and terminators attached to the "T".
- Make sure your EtherTalk card is properly set for thick or thin Ethernet. If it is improperly set, no workstations or other routers on the network can communicate with the router.

## Removal of AppleShare File Server

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- The removal of AppleShare File Server software after installation of the Router/EtherTalk/TokenTalk software will remove the AppleTalk file from the System Folder. You must re-install either the router, EtherTalk 2.0, or TokenTalk 2.0 software.

## Installation

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- When using the router with TokenTalk, be aware that some customers were seeded with an AppleTalk Phase 1 (1.0) version of TokenTalk. You should remove TokenTalk 1.0, using the 1.0 Installer diskette, and then install TokenTalk 2.0.
  - Be aware that some customers were seeded with an AppleTalk Phase 1 (1.0) version of the AppleTalk Internet Router. You should remove the 1.0 version, using the 1.0 installer diskette, and then install the 2.0 version. The ADEV files for the LocalTalk ports were renamed with the 2.0 version of the AppleTalk Internet Router. If you do not remove the 1.0 version of the router, the router setup window will show the old and new ADEVs, causing you to have 4 LocalTalk ports.
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