

PC MACLAN for Windows NT/2000 Upgraders' Guide

Upgrading to PC MACLAN v8.0 from previous versions of PC MACLAN

NOTE: Do not uninstall PC MACLAN prior to upgrading your system to Windows 2000!

When you upgrade a Windows 95/98 or NT system to Windows 2000, the currently installed version of PC MACLAN will be disabled. PC MACLAN for Windows 2000 v8.0 will detect previous versions during installation and will upgrade the software, while maintaining the integrity of your Macintosh files saved to PC MACLAN File Server share points.

NOTE: During the upgrade to Windows 2000, Windows checks the compatibility of the currently installed software. During the compatibility check, Miramar's AppleTalk protocol will be listed. This is normal; do not click on the Have Disk button, click Next, instead.

PC MACLAN for Windows 2000 v8.0 changes the mechanism used to write Macintosh files to a volume on an NTFS formatted drive shared by the PC MACLAN File Server. The file structure is identical to that used by Microsoft's File Server for Macintosh. All previous versions of PC MACLAN, except v4.1, use two files to store a single Mac file. The primary file, which has the original file name, is the Mac file's data fork. The other file, which has a ".#res" extension, is the resource fork. The PC MACLAN file system maintains the link between the two files. When a share point is created on an NTFS drive, there is much less dependence on the PC MACLAN system files to maintain Mac file integrity. Miramar Systems recommends converting drives to NTFS during an upgrade to or an installation of Windows 2000.

The PC MACLAN system files also keep track of the users and groups which have been granted access to the resources shared by the PC MACLAN File Server.

When the PC MACLAN v8.0 File Server runs for the first time, your Mac files on NTFS formatted shared volumes will be converted to File Server for Macintosh compatible file streams. (This is actually a reduction in the number of files in each folder.) In addition, if there are identical users and groups in both Windows' (local) User Manager and in the PC MACLAN File Server, ownership and group permissions will be, optionally, applied to the shared folders. Prior to the start of the upgrade process, you will be given an opportunity to have the permissions changed or not. (Uncheck the *Apply AFP permissions* checkbox to prevent changes to Windows' current set of permissions.)

Please perform the following steps before upgrading to Windows 2000:

Removable media share points

Please unshare any PC MACLAN v4.0 shares which are from removable media such as floppy or Jazz drives. The mechanism for sharing removable media has been improved in PC MACLAN v4.1 and v8.0 and is not compatible with previous versions. Prior to unsharing the removable media volume, copy all Mac files back to a Macintosh or another AppleShare server.

Backup

It's always a good idea to backup your system before performing an upgrade to an operating system. Please do these 4 backup items to ensure that you can recover your system and Mac files in case of trouble during or after upgrading.

1. Prior to performing the system backup, you should create a backup of the PC MACLAN File Server system files by selecting the *Backup system files* menu option in the Server menu. Note that while the PC MACLAN File Server is running the system files are held open within the operating system which will prevent backup.

2. In addition, you might want to backup the shared volumes from a Macintosh using a Mac OS based backup utility such as Dantz's Retrospect®.
3. It will be necessary to stop both the PC MACLAN File Server and Print Spooler services prior to backup for a successful backup to occur. Be sure to backup both the PC MACLAN installation folder and all of the share points.
4. Finally, backup your Windows system drive.

Identify and note Users and Groups

List all of the PC MACLAN File Server users and their group affiliations. This can be accomplished manually from the *Users and Groups* dialog box. (You will have to use scratch paper.)

Please perform the following steps before installing PC MACLAN v8.0

Create Users and Groups

Open the Windows 2000 Computer Manager located in the Administrative Tools program group (from the Start Menu) and create a set of users and groups that correspond identically to the list created previously. If desired, during the upgrade process, the folders these users and groups own as AppleShare clients will have NTFS permissions set the same as seen on the Mac.

Set permissions

To ensure an orderly upgrade, wherever the shared directories reside on the NTFS formatted drive, the path from the root of the drive to the parent of the shared directory should have, at a minimum, Administrators and Everyone set to Full Control. Identify the path to each sharepoint from the PC MACLAN File Server *Share Directories* dialog box. (Again, you will have to use scratch paper.) From Explorer, get properties on each folder in the path, select the *Security* tab page and press the *Permissions* button. For more information on setting permissions in Windows 2000, consult Windows' documentation. After the upgrade process is complete, the NTFS permissions can be returned to their original condition.

Once these items have been completed, you may proceed with the installation of PC MACLAN for Windows 2000 v8.0.

If you have any questions or concerns about these steps or have any questions about the functionality of PC MACLAN for Windows 2000 v8.0, please call Miramar Systems' Tech Support at (805) 965-5161.

Upgrading to PC MACLAN v4.1 from PC MACLAN v4.0

Please note that an upgrade to PC MACLAN v4.1 is only supported from v4.0.

While not required, it is highly recommended that you make an alternate "No Network" hardware profile with networking disabled by choosing the Hardware Profiles tab in the System Control Panel. This will allow you to start your NT system if you experience network difficulties. You can find more detailed instructions on this by looking at the PC MACLAN help file, ATCPANEL.HLP, under the "Safe Mode" topic.

This version of PC MACLAN changes the mechanism used to write Macintosh files to a volume on an NTFS formatted drive shared by the PC MACLAN File Server. The file structure is identical to that used by Microsoft's Services for Macintosh. All previous versions of PC MACLAN use 2 files to store a single Mac file. The primary file, which has the original file name, is the Mac file's data fork. The other file, which has a ".#res" extension, is the resource fork. The PC MACLAN file system maintains the link between the two files. When a share point is created on an NTFS

drive, there is much less dependence on the PC MACLAN system files to maintain Mac file integrity.

The PC MACLAN system files also keep track of the users and groups that have been granted access to the resources shared by the PC MACLAN File Server.

When the PC MACLAN v4.1 File Server runs for the first time, your Mac files on NTFS formatted shared volumes will be converted to Services for Macintosh compatible file streams. (This is actually a reduction in the number of files in each folder.) In addition, if there are identical users and groups in both NT's (local) User Manager and in the PC MACLAN v4.0 File Server, ownership and group permissions will be, optionally, applied to the shared folders. Prior to the start of the upgrade process, you will be given an opportunity to have the permissions changed or not. (Uncheck the *Apply AFP permissions* checkbox to prevent changes to NT's current set of permissions.)

Please perform the following 4 steps before installing PC MACLAN for Windows NT v4.1:

Removable media share points

Please unshare any PC MACLAN v4.0 shares which are from removable media such as floppy or Jazz drives. The mechanism for sharing removable media has been improved in PC MACLAN v4.1 and v8.0 and is not compatible with version 4.0. Prior to unsharing the removable media volumes, copy all Mac files back to a Macintosh or another AppleShare server.

Backup

1. Prior to performing the system backup, you should create a backup of the PC MACLAN File Server system files by selecting the *Backup system files* menu option in the Server menu. Note that while the PC MACLAN File Server is running the system files are held open within the operating system which will prevent backup.
2. In addition, you might want to backup the shared volumes from a Macintosh using a Mac OS based backup utility such as Dantz's Retrospect®.
3. It will be necessary to stop both the PC MACLAN File Server and Print Spooler services prior to backup for a successful backup to occur. Be sure to backup both the PC MACLAN for NT folder and all of the share points.
4. Finally, backup your Windows system drive.

Create Users and Groups

List all of the PC MACLAN file server users and their group affiliations. This can be accomplished manually from the *Users and Groups* dialog box. (You will have to use scratch paper.) Open NT's User Manager located in the Administrative Tools program group (from the Start Menu) and create a set of users and groups that correspond identically to the list. If desired during the upgrade process, the folders these users and groups own as AppleShare clients will have NTFS permissions set the same as seen on the Mac.

Set permissions

To ensure an orderly upgrade, wherever the shared directories reside on the NTFS formatted drive, the path from the root of the drive to the parent of the shared directory should have, at a minimum, Administrators and Everyone set to Full Control. Identify the path to each sharepoint from the PC MACLAN file server *Share Directories* dialog box. (Again, you will have to use scratch paper.) From Explorer, get properties on each folder in the path, select the *Security* tab page and press the *Permissions* button. For more information on setting permissions in NT, consult Windows' documentation. After the upgrade process is complete, the NTFS permissions can be returned to their original condition.

Once these three items have been completed, you may proceed with the installation of PC MACLAN for Windows NT v4.1. Do not remove any of the Miramar services or protocol as this

will uninstall PC MACLAN. Follow the steps presented in the help topic to upgrade your PC MACLAN for Windows NT v4.0 installation to v4.1.

If you have any questions or concerns about these preliminary steps or have any questions about the functionality of PC MACLAN for Windows NT v4.1, please call Miramar Systems' Tech Support at (805) 965-5161.