

# Miramar Systems, Inc.

## PC MACLAN version 6.01

-----  
This document may contain information not found in the manual. Please read.  
-----

### C O N T E N T S

- I. Installing
- II. Upgrading from Personal MACLAN v5.5x or PC MACLAN v6.0(1)
- III. Unlisted Adapters Information (ODI & NDIS3)
- IV. Errors during Installation
- V. Errors during operation
- VI. Incompatible Network Adapters
- VII. Performance Issues
- VIII. Uninstalling

=====

#### I. Installing to Windows 95

##### A.Run Install from DISK1

1.Standard Installation assumes that you are installing the AppleTalk stack to connect to an Ethernet or Token-Ring network.

2.To install Personal MACLAN Connect onto a LocalTalk network, select Custom Installation and check the Network Transport option. This will give you the opportunity to add an ODI adapter.

3.After installing Personal MACLAN Connect, the AppleTalk protocol stack needs to be entered into the Windows 95 registry. The installer will do this for you. Do not reboot your system until after this has been accomplished.

B.If the protocol and client get removed from the Network Control Panel applet follow the steps listed below to setup the AppleTalk protocol and client for Ethernet or Token-ring networks:

1.Select the CONTROL PANEL from your computer

2.Select the Network ICON

3.Select the ADD button

4.Select Adapter (if there is one previously installed skip to #9)

5.From the manufacturer list choose your ethernet card's maker

6.From the list of adapters select the adapter you installed

7.Select OK

8.If you do not wish to connect to other PCs, remove the two Microsoft clients and the IPX/SPX protocol and the NETBEUI protocol

9.Select Add

10.Select Protocol

11. Select ADD
12. Under Manufacturers List box choose Miramar Systems, Inc.
13. Select the Miramar Systems AppleTalk v6.0 using NDIS3 protocol and press OK
14. Select the ADD button
15. Select Client
16. Select ADD
17. Under Manufacturers List box choose Miramar Systems, Inc.
18. Select OK
19. Select OK again to enter the new values into the Windows registry
20. Select YES to Restart WINDOWS 95

C. To setup the ODI LocalTalk AppleTalk protocol and client do the following:

1. Select the CONTROL PANEL from your computer
2. Select the Network ICON
3. Select the ADD button
4. Select Adapter (if there is one previously installed skip to 9)
5. From the manufacturer list choose "(installed localtalk driver)"
6. From the Network Adapters list select "Existing ODI LocalTalk Driver"
7. Select OK
8. Select Add
9. Select Protocol
10. Select ADD
11. Under Manufacturers List box choose Miramar Systems, Inc.
12. Select the Miramar Systems AppleTalk v6.0 using ODI protocol and press OK
13. Select the ADD button
14. Select Client
15. Select ADD
16. Under Manufacturers List box choose Miramar Systems, Inc.
17. Select OK
18. Select OK again to enter the new values into the Windows registry.

## 19. Select YES to Restart WINDOWS 95

---

### IIa. Upgrading from Personal MACLAN v5.5x to v6.0(1)

You do not need to uninstall v5.5x from Windows 95 prior to installing.

The File Server database in Personal MACLAN version 5.5x for Windows 95 is not compatible with version 6.0. During installation the installer will detect the location of the previous version and will create backup files (extension .BAK). The first time the File Server is run, these .BAK files will be converted to the new database format which supports Long File Names.

### IIb. Upgrading from PC MACLAN v6.0 to v6.01 (or v6.01 to v6.01)

You do not need to uninstall v6.0 from Windows 95 prior to re-installing.

You will need to run the backup utility on the File server to prevent the loss of Longname and resource information on Macintosh files stored on PC volumes. Before performing the upgrade, if you use the File Server to save Macintosh files on your PC, you must backup the server system files. From the Server menu, select Backup System files and change the destination directory to any directory other than "." or "MACLAN6." After completing the upgrade, copy the .BAK files to the MACLAN6 directory and change the extension to .DAT. The next time the server is run the system files will be reported as corrupt and a rebuild will be requested. This is normal.

If you are upgrading from a beta release of PC MACLAN v6.0, due to changes to the UNC path structure, you must delete your AppleTalk network printers before attempting to print. Re-establish your printers by double clicking the printer from the Network Neighborhood or by browsing in the Add Printer wizard.

---

### III. Unlisted Adapters information

If you have a Network adapter that was not listed during Install then you will need to determine whether it came with NDIS or ODI drivers.

---

#### A. For ODI unlisted adapters

If you cannot locate your specific network adapter from the Install "Adapter selection list" perform the following STEPS:

1. Locate the ODI driver on the disk that came with your adapter.  
(XXXXXXXX.COM)
2. Copy the ODI driver file into the PC MACLAN Installation directory.  
Ex: Copy A:\ODI\XXXXXXXX.COM C:\MACLAN6
3. Run INSTALL, select Custom install and check the Network Transport checkbox. From the Select Network Adapters and select UNLISTED adapter from the NET CARD list.
4. After INSTALL use a text editor like NOTEPAD and edit the NET.CFG file located in the PC MACLAN Installation directory and change all XXXXX text to the name of your ODI driver.

5. Using a text editor, edit the ATDRIVER.BAT file located in the PC MACLAN Installation directory & change XXXXX text to the name of your ODI driver.

If your adapter has settings such as different interrupts, DMA, Memory Address, Port Address than those presented during installation it may be necessary to edit the NET.CFG file located in the PMACLAN5 directory.

Example:

```
LINK SUPPORT
  BUFFERS 9 628
  MEMPOOL 16K
  MAX BOARDS 4
```

```
LINK DRIVER XXXXX      ----->XXXXX      change to your drivers name
# UNLISTED ADAPTER NAME
  INT #1 9      ----->INTERRUPT      change 9 to your value
  PORT #1 200 8  ----->PORT ADDRESS   change 200 to your value
  DMA #1 3      ----->DMA Channel   change 3 to your value
  MEM #1 C000 10 ----->Memory Address change C000 10 to your value
  FRAME ETHERNET_SNAP
  FRAME ETHERNET_II
  FRAME ETHERNET_802.2
  FRAME ETHERNET_802.3
  PROTOCOL IPX 0 ETHERNET_802.3
  PROTOCOL APPLETALK 80007809B ETHERNET_SNAP
  PROTOCOL AARP 80F3 ETHERNET_SNAP
```

For Token-ring, change all "ETHERNET..." text to "TOKEN-RING..." for example: instead of "FRAME ETHERNET\_SNAP" enter "FRAME TOKEN-RING\_SNAP"

-----  
B. For NDIS3 unlisted adapters.

1. Run the Network Applet from Windows 95 Control Panel.
2. Select Add
3. Select Add adapter to see if your Network adapter is listed. If it's unlisted follow the manufacturers' directions on installing NDIS3 drivers for Windows95.
4. If you find your adapter, select it.
5. If you do not need to connect to other PCs or to Netware servers, remove the Netbeui and IPX/SPX protocols.

Be sure to check your Windows 95 documentation for details.

=====  
IV. ERRORS during INSTALLATION

1. Personal MACLAN may have detected incompatible AppleTalk drivers on your system. Please remove all items as listed below from your system files.

Install reports "Found Farallon"

IN AUTOEXEC.BAT

"aboth.bat" may appear as "call ABOTH.BAT"  
"aprint.bat" may appear as "call APRINT.BAT"  
"afiles.bat" may appear as "call AFILES.BAT"  
"aarp.com"  
"atalk.com"  
"pntvdd.exe"

#### IN FILE DIRECTORIES

Locate your "c:\phonenet" directory and rename "net.cfg" to "net.xxx".

#### IN SYSTEM.INI

Edit & remove: "PhoneNETMemoryPool" statement from the "386Enh" section

2. Personal MACLAN has detected a previous installation. Drivers are incompatible with version 6.0

Found earlier version MACLAN Connect/Personal MACLAN  
IN AUTOEXEC.BAT

ATDRIVER.BAT  
MLDRIVER.BAT  
LMSTART.BAT

3. Personal MACLAN has detected AppleShare for Windows installation. This is compatible with Personal MACLAN versions 6.0

Found AppleShare  
IN AUTOEXEC.BAT

"ATDRIVER.BAT"

4. Norton Navigator  
Disable Norton Navigator before installing as it will prevent installation. You can enable it after Install has completed.

---

## V. ERRORS during system OPERATION

---

1. "Need to run LSL.COM"

This error will occur if you are running Novell Netware and Install detected LSL.COM in system memory.

**FIX:** Edit your AUTOEXEC.BAT and move the "CALL <path>\ATDRIVER.BAT" statement AFTER the line(s) that execute the LSL and MLID statements.

Example:

Before CALL ATDRIVER.BAT  
PATH C:\DOS;C:\WINDOWS  
C:\NETWARE\LSL  
C:\NETWARE\3C5X9  
etc....

After PATH C:\DOS;C:\WINDOWS  
C:\NETWARE\LSL  
C:\NETWARE\3C5X9  
CALL ATDRIVER.BAT  
etc....

**NOTE:**All network device drivers are provided for the exclusive use of Personal MACLAN Connect using the manufacturer's proprietary network adapters. Using a manufacturer's network drivers with another manufacturers' network adapter is strictly prohibited.

2. "Access Denied"

This error may occur when a file is copied to a "Drop Box" from a DOS box. The operating system attempts to set the time/date of the file to its original value after the file has been successfully copied. This operation fails and the system returns the error condition. The file has been copied to the "Drop Box" but has the current time/date.

3. To browse for network printers from within the Add Printer wizard you'll need to get and install the Win 95 Service Pack.

4. "File not found" errors:  
Macintosh folders containing a '\' (i.e. backslash) cannot be accessed correctly.

=====

VI. Incompatible Adapters (ODI & NDIS3)

Some older adapters have not had their ODI driver updated by the manufacturer and have become out of spec to the current requirements of ODI and NDIS3. The following list contains the adapter, the problem you may experience and a possible workaround.

NE1000

Problem: Incompatible, obsolete drivers.  
solution: None

INTEL ETHER EXPRESS PRO

Problem: Windows freezes at splash/intro screen  
Windows freezes on re-entry after closing

Solution: 1.If running Windows for WorkGroups select the ODI protocol  
2.Obtain the latest NDIS3 driver.

APPLE LOCALTALK

Problem: Incompatible, obsolete drivers.  
Solution: Use an Apexx PCTALK adapter instead.

TOPS/SITKA CARDS

Problem: Incompatible, obsolete drivers.  
solution: Use an Apexx PCTALK adapter instead.

SMC 8216

Problem: Can cause a Page Fault (Blank screen with flashing cursor) if the cable is disconnected from adapter during a file copy.  
Solution: Obtain the latest NDIS3 drivers from SMC. ODI does not have this problem.

=====

VII. Performance Issues

Some network adapters drivers may not perform to your expectations. Miramar recommends that you always use the latest drivers available from the manufacturer.

Make sure that there are no conflicts with Memory, Interrupts, DMA etc... as this can also cause poor performance. The higher the CPU power the better Personal MACLAN will perform.

=====

## VIII.Uninstalling from Windows 95

To Uninstall from Windows 95:

- 1.Throw away any shortcuts to PC MACLAN executables.
- 2.Delete any network printers connected via AppleTalk
- 3.In the Network Control Panel:
  - a)select the Miramar Systems Appletalk Client Support v6.0 and press "Remove."
  - b)Select the Miramar System AppleTalk protocol and press "Remove."
  - c)Select the ODI LocalTalk Driver (if applicable) and press "Remove."
  - c)Press "OK"
- 3.When asked to restart your computer, select "Yes."
- 4.Run the Add/Remove Programs applet in the Control Panel, select PC MACLAN v6.0 and press the Add/Remove button. When requested, place disk 1 into the specified drive and select Uninstall.

=====

## DISCLAIMER

Miramar Systems makes no guarantees as to the compatibility with any third party device drivers operability with Miramar products. IN NO EVENT SHALL MIRAMAR SYSTEMS, INC. HAVE ANY LIABILITY FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, BUSINESS INTERRUPTION, LOSS OF USE OF EQUIPMENT, LOSS OF DATA OR COSTS OR PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, ARISING IN ANY WAY, OR UNDER ANY CAUSE OF ACTION, WHETHER OR NOT MIRAMAR SYSTEMS, INC. OR AN AUTHORIZED REPRESENTATIVE OF MIRAMAR SYSTEMS,INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING THE FAILURE OF THE ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.