

Subject:	Using Windows NT with 3Com MBA RPL
Category:	nt
Doc Type	Application Note

Using Windows NT with 3Com MBA RPL

These instructions assume your RPL host is Windows NT, and you are using a 3Com 3C90X adapter:

On the workstation:

- Install and configure the boot ROM to use the RPL protocol.
- Note the adapter address, i.e. 00 60 08 63 83.

On the server:

- Install the DLC and NETBEUI protocols if they are not already installed.
- Install the Remoteboot Service. Choose the default options for the directories.
- Copy the operating system you wish your client to boot to the server. (e.g. MS-DOS 6.22.) In this example the DOS files are copied to the \rpl\RPLFILES\BINFILES\DOS622 directory.
- The DOS622 directory is correct for all DOS 6.2X versions. Be sure to copy IO.SYS and MSDOS.SYS as well. To do this, the read only, hidden and system attributes have to be removed so the files can be copied. If the network adapters are not supported directly (see "Supported Network Adapters" section in the chapter on Remoteboot NT Installation), they will have to be added.
- Restart the system and from Control Panel, Services, start the Remoteboot Service (or type "net start remoteboot" from the command prompt).

Adding the network adapter card to the available configurations:

- Copy the network driver to the \RPL\BBLOCK\NDIS directory (EL90X.DOS).
- Create a directory \RPL\BBLOCK\NETBEUI\EL90X.
- Copy the DOSBB.CNF and the PROTOCOL.INI from one of the other directories.

- Modify the PROTOCOL.INI to refer to the new driver as below:

```
[protman]
drivename = protman$
dynamic = yes
priority = netbeui
[netbeui_xif] drivename = netbeui$
bindings = EL90X_nif
names = 6
ncbs = 12
packets = 20
pipeline = 10
sessions = 6
stacksize = 512
lanabase = 0 [xnsnb_xif]
drivename = xnsnb$
bindings = EL90X_nif
load = xnsnb[cbr]
lanabase = 1
[xnstp_xif]
drivename = xnstp$
bindings = EL90X_nif
load = xnstp[ub]
lanabase = 1
[tcPIP_xif] drivename = TCPIP$
disabledhcp = (TCPIP_NO_DHCP)
```

```
ipaddress0 = (TCPIP_ADDRESS)
subnetmask0 = (TCPIP_SUBMASK)
defaultgateway0 = (TCPIP_GATEWAY)
tcpsegmentsize = 1450
tcpwindowsize = 1450
nbssessions = 6
load = tcptsr[c],tinyrfc[c],emsbfr[cr]
unload = "unloadt /notsr[dc]"
bindings = EL90X_nif
lanabase = 1
[ipx_xif]
drivername = ipx$
load = ipxmark[u],ipx[u] unload = ipxrel[c]
bindings = EL90X_nif
lanabase = 1 [msdlc_xif]
drivername = msdlc$
bindings = EL90X_nif
load = msdlc[ub]
unload = msdlc[u]
[EL90X_nif] drivername = EL90X$
```

- Modify the DOSBB.CNF file to refer to the new directory structure as below:

```
;DOS on 3Com Etherlink 3c90X
BASE D0H
RPL BBLOCK\RPLBOOT.SYS
LDR BBLOCK\RPLSTART.COM ~
```

```

DAT BBLOCK\NETBEUI\EL90X\PROTOCOL.INI
DRV BBLOCK\RPLDISK.SYS ~ ~ ~
EXE BBLOCK\RPLPRO1.COM ~ 2 ~
EXE BBLOCK\I13.COM ~ ~ ~
EXE BBLOCK\RPLBIND2.EXE ~ ~
EXE BBLOCK\PROTMAN.EXE ~ ~
EXE BBLOCK\RPLBIND1.EXE ~ ~
;DRV BBLOCK\IPXNDIS.DOS ~ ~ ~
;DRV BBLOCK\TCPDRV.DOS /I:C:\LANMAN.DOS ~ ~
EXE BBLOCK\NETBEUI\NETBEUI.EXE ~ 10 ~
DRV BBLOCK\NDIS\EL90X.DOS ~ 10 ~
DRV BBLOCK\PROTMAN.DOS /I:C:\LANMAN.DOS ~ M

```

- o Next, using the Command Utility RPLCMD.EXE, create a boot block.

```

C:\winnt35\rpl\rplcmd Adapter Boot Config Profile Service
Vendor Wksta [Quit]:b

```

```
Add Del Enum: a
```

```
BootName: DOS62
```

```
VendorName: 006008
```

```
BbcFile=BBLOCK\NETBEUI\EL90X\DOSBB.CNF
```

```
All other parameters are optional BootComment= Boot record for
3C90X and DOS 6.22
```

```
WindowSize=0
```

```
Adapter Boot Config Profile Service Vendor Wksta [Quit]:
```

- o Next, create a Configuration record.

```
C:\winnt35\rpl\rplcmd
```

Adapter Boot Config Profile Service Vendor Wksta [Quit]: c

Add Del Enum: a

ConfigName=DOS62_9X

BootName=DOS62

DirName=DOS

DirName2=DOS622

FitShare=fits\dos622.fit

FitPersonal=fits\dos622p.fit

All other parameters are optional

ConfigComment= DOS6.22 configuration for 3C90X cards

DirName3=

DirName4=

- Return to the Remoteboot Manager
- Under [Configure] choose [Check Configurations] and choose the Yes button
- Also check the Security by selecting [Fix Security] in the [Configure] menu
- Select [New Profile] from the [Remoteboot] pulldown menu
- There should be an option for [DOS6.22 configuration for 3C90X cards], select it, and give the Profile a name. (DOS622_3C90X)
- Click on OK In the Remoteboot Manger, the Profile should now be listed in the bottom half of the screen

Final Stage:

- Restart the workstation; it should boot and try to find an RPL server
- In Remoteboot Manager on the server press [F5] to refresh the screen.

- There should be an entry for the adapter address of the workstation network adapter.
- Click on the adapter address and then select [Convert Adapter] from the [Remoteboot] pulldown menu. Set the Wksta Name (used as an account for the workstation, it may also double up as the users actual account).
- Enter a description and password for the workstation Choose either a Shared Profile or a Personal Profile Finally choose the newly created DOS622_3C90X (DOS6.22 configuration for 3C90X) cards profile and click on <ENTER>
- The workstation should now log on.