

SYMBOL 68xx RF TERMINAL SETUP

Section I - Overview: The configuration of the symbol terminal can be broken down into four (4) distinct steps:

1. Configure the terminal for use with our OS and application software (see detailed instructions under "Section II – SYMBOL RF TERMINAL CONFIGURATION" below).
2. Setup a line in /etc/hosts that uniquely identifies the terminal and its assigned IP address as configured in step 1 above.
3. Setup a line in /work/configs/termdevs.cfg that allows the terminal to be uniquely assigned an environment variable called \$WSNUMBER during login .profile processing.
4. Setup a login for each symbol terminal (see detailed instructions under "Section III - SYMBOL LOGIN SETUP" below).

Section II - SYMBOL RF TERMINAL CONFIGURATION

1. Place 68xx terminal into its charging/programming cradle that is connected to a PC with the proper programming software loaded on it.
2. Verify that the 68xx terminal is powered off. Use "**PWR**" button to check if in doubt.
3. Boot 68xx terminal into "**Command Mode**"
 - a. Press and hold "**F**" and "**I**" keys simultaneously.
 - b. Press and release "**PWR**" button.
 - c. Now release "**F**" and "**I**" keys you were holding.
4. Wait till boot completes and displays:

```
Command Mode  
Select function  
Self test
```

5. Press "**down arrow**" key on 68xx terminal keyboard.
Display should now say:

```
Command Mode  
Select function  
Program loader
```

6. Press "**Enter**" key on 68xx terminal keyboard. Screen should display:

```
Program loader  
WARNING: EEPROM WILL BE ERASED CONTINUE? <Enter>
```

7. Press "**Enter**" key and wait for the display to show the following:

```
Comm Parameters  
Baud  
4 9600
```

8. Press "**down arrow**" key on 68xx terminal keyboard until it shows the following:

```
Baud  
5 19200
```

9. Press the "**Enter**" key on the 68xx terminal keyboard to accept the defaults for the remaining three comm parameters:

```
Databits-      7  
Parity-       Odd  
Flow control- None
```

10. The 68xx terminal display should now show:

Comm parameters

Start? <Enter>

```
*****
* NOTE – STOP!! DO NOT PRESS ENTER YET! *
*****
```

11. The next two steps must be performed on the programming PC system, NOT on the 68xx terminal itself...
Get to a **"dos prompt"** in the directory where the file vthp6840.hex resides (**hint**: use find on win 95 system).

12. Type the following command assuming your mouse is on com1: and your symbol cradle is attached to com2:
sendhex vthp6840.hex 19200 2
If your com1: port is the attached port you may substitute a "1" for the final argument on the above command line.

```
*****
* NOTE – STOP!! DO NOT PRESS ENTER YET! *
*****
```

- 13. Now press the **"Enter"** key on 68xx terminal keyboard.
- 14. Press the **"Enter"** key on the PC keyboard twice.
- 15. Hex file will load into 68xx terminal.
- 16. When transfer is complete the 68xx terminal should show the following:
Status code: 0000

If it shows any other (non-zero) status code, the load has failed and will NOT work.

17. Now you are ready to setup the terminal's IP address! Cold boot the 68xx terminal by following this procedure:

Turn off by pressing **"PWR"** button briefly.
Press and hold the following three keys:
"A", "B" and "D"
Press and release the **"PWR"** button.
Now release the **"A", "B" and "D"** keys.

18. Watch the screen closely during boot up, & when it displays the following **"splash screen"**:

```
FLASH TERMINAL  
LWP.HEX V3.03-03
```

Note that this screen gives you approximately 5 seconds to key in a special break key sequence to get to a system prompt and invoke a configuration program. The key sequence is:

- "CTL"** key.
- "FUNC"** key.
- "1"** key.

- 19. At the D:\>_ prompt, type the following command:
cfg24<Enter>
- 20. Set the Net Id. This must be unique for each symbol rf terminal connected to a system and range from 101 to 1FE (hexidecimal).
- 21. Set subnet mask to **255.255.255.0**
- 22. Set default router to **0.0.0.0**
- 23. Set Ip address to a known unique value that does not conflict with any others on the network. Note this should also be used in step 2 of section I.
- 24. Boot mode should be set to
- 25. All other parameters should remain at the symbol defaults.
- 26. Select **"Exit"** from menu and system will return to the "D:_" prompt.

3. Create a file in this **"HOME"** directory called **".profile1"**: From the prompt type
te .profile1
Now add the following line to this file:
export NSTERM=vt10020
Now F-2 to **"Save and Exit"**
4. Create a file to prevent normal login clist processing: From the prompt type
touch .nogo
5. Create a file in this **"HOME"** directory called **".profile2"** From the prompt type
te .profile2
Add the following line to this file if you wish the login to be able to select from the "clist"
exec dbrslexe compenvi.app symbolrf
Or... If you wish to lock the login to a specific dataset number From the prompt type
. dset 89; exec dbrslexe symbolrf.app

NOTE: (If you use the latter approach, their on-site acting administrator should be aware of this so they know (not to change the settings in the "clist" DB in a way that will adversely affect this login scripting).