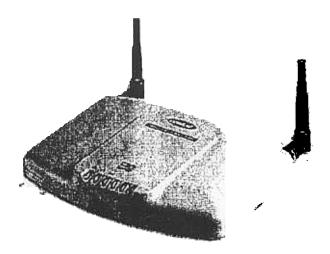
Symbol Access Points

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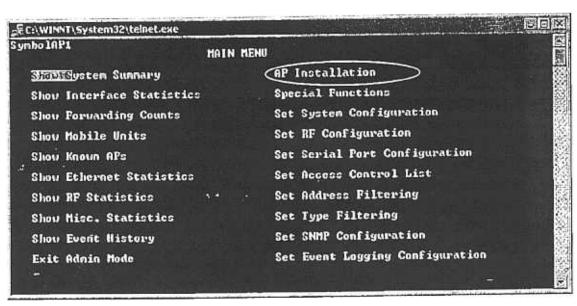
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Connecting serially to AP4131 Access Point:

You will need to initially assign an IP address for each access point. This procedure is for the AP4131 (802.11b access point).

- Connect a null modem cable (61383-00-00) from the computer's serial port to the access point's serial port.
 On the computer, use a communication software package. This can be something like Hyper Terminal.
 - O Select Com1, Set the communications parameters as follows: baud=19,200, data bits=8, stop bits=1, parity=none, flow control=none.
- Once you successfully attach to the access point, the Main Menu will be displayed. If you first do not get the Main Menu screen press the <ESC> key.

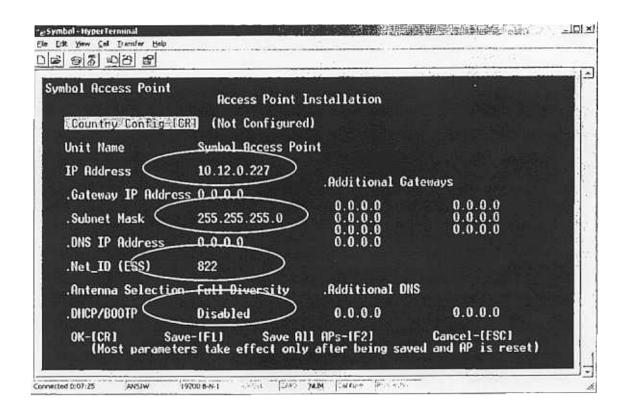


• Using the Tab key Select [Enter Admin Mode]
You will be asked for a password. The default password is "Symbol".

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Access Point Installation Screen:

From the Main Menu highlight and select [AP Installation] The following screen will appear:



The below items underlined are the minimum that will need to be configured

Unit Name

IP Address
Gateway IP Address
Subnet Mask
Net ID (ESS)
DHCP

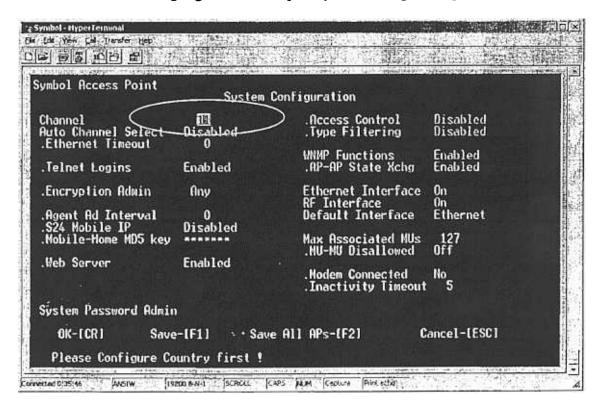
Unit Name: This is optional. This simply assigns a physical name to the access point.

- IP Address: This is required. Each access point will need a unique IP address.
- Gateway IP Address: This will be needed only if a Gateway \ Router is being used. After you have entered an IP address you could configure the access point via web browser if you wish. To do this save the configuration (press <FI>) and reboot the access point. To continue configuration using a serial connection continue with the step below.

- Subnet Mask: This value will need to be the same as the network the access point is attaching to. This value will be the same for each access point.
- Net ID: This value should be given a different value from default value. This value will be the same for each access point.
- DHCP: This should remain disabled.
- When data has been entered press <F1> to save and return to the Main Menu.

Set System Configuration

From the Main Menu highlight and select [Set System Configuration]



The items below are the minimum that will need to be configured.

Select Channel and enter either 1,6, or 11.

When data has been entered press <F1> to save and return to the Main Menu.

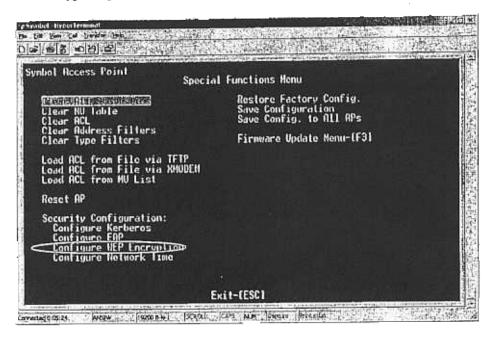
Set Special Functions

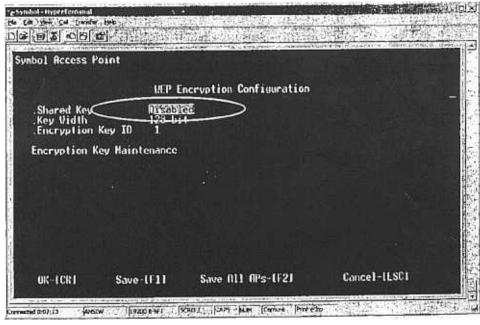
From the Main Menu highlight and select [Special Functions]

SCANSOURCE T.S

WEP

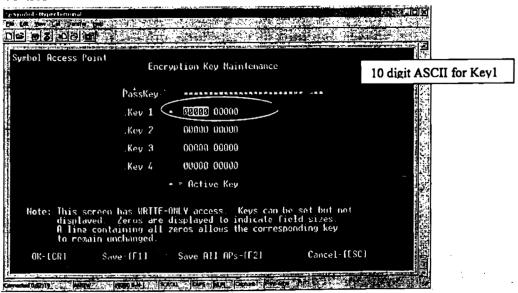
1 Use the <TAB> key to highlight and select [Configure WEP Encryption]



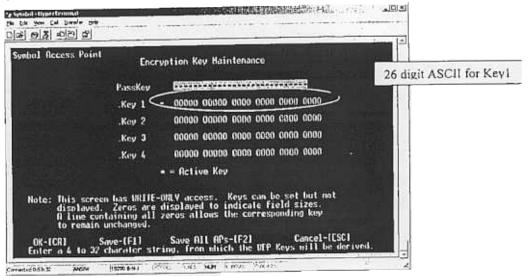


- 2. If WEP is not being used insure that the Shared Key value is Disabled. Press <ESC> to return to the Main Menu.
- 3. If WEP will be used use the <Space> key to select Enabled for the Shared Key.
- 4. Use the <TAB> key to select [Key Width] then use the <Space> key to select either 40-bit or 128-bit Encryption. You will need to press the <Enter> for your selection to take effect. This will take you back to the Special Functions Menu. You will need to go back into the WEP configuration section.
- 5. Use the <TAB> key to select [Encryption Key ID] then enter the appropriate Key ID of 1, 2, 3, or 4.
- 6. Use the <TAB> key to select [Encryption Key Maintenance] and press <Enter>.
- 7. Use the <TAB> key to select the appropriate passkey and enter the appropriate WEP values. You will enter a 10 digit hexidecimal value for 40-bit WEP and a 26 digit hexadecimal value for 128-bit WEP.
- 8. When data has been entered <TAB> down to Save [F1] and press <Enter>.

40-bit



128-bit



Save Configuration

- 1. Return to the Main Menu (pressing <ESC> key).
- 2. Select Special Functions.
- 3. Select Save Configuration.
- 4. Select Yes.

Reboot

Return to the Main Menu (pressing <ESC> key)

- 2. Select Special Functions.
- 3. Select Reset AP.
- 4 Select Yes.

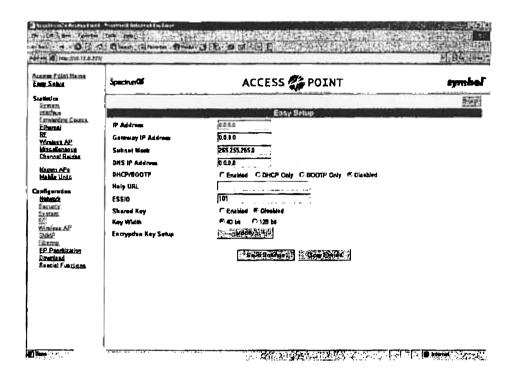
Ping

- You can test wireless connectivity by performing a Ping to the access point.
- 2. On the PC click on <Start> then click on <Run>.
- 3. Type Ping xxx.xxx.xxx (where the xs are the IP address of the access point). A short display will indicate whether ping was successful.
- 4. Remember the PC will need a static IP address similar to the access point.

Telnet

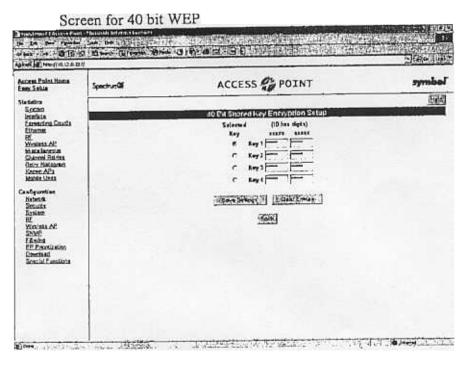
- 1. After an IP address has been assigned you can gain access to the access point via a telnet session.
- 2. On the PC click on <Start> then click on <Run>.
- 3. Type Telnet xxx.xxx.xxx (where the xs are the IP address of the access point).
- 4. You will have the same access as you had during a serial connection. The display screens will look the same also.

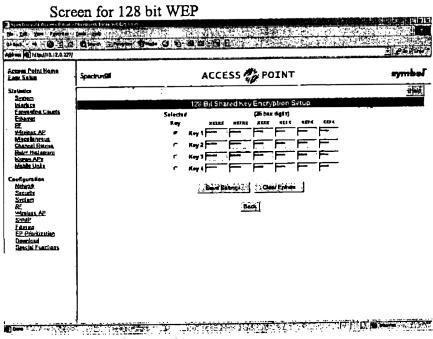
3 Enter the User Name and Password of *Symbol* to gain access to configuration screens. The following screen will display.



- 4. IP address: Enter the desired IP address.
- 5. Gateway IP address: If using a router or gateway enter the IP address, if not leave it at 0.0.0.0
- 6. Subnet Mask: Enter the appropriate Subnet Mask.
- 7. DHCP: Disable DHCP if manually entering IP Addresses. If using DHCP skip to step 8.
- 8. ESSID: Enter the desired ESSID value. This value can be anything. Suggest strongly change it from the default value.
- 9. Shared Key: This is the WEP setting to Enable or Disable.
- 10. Key Width: If using WEP select whether 40 bit or 128 bit will be used. If WEP is not used ignore this.
- 11. Remember to save your entries by clicking Save Settings.
- 12. Encryption Key Setup: If using WEP click on *Modify* to enter the WEP values. Please remember to click on *Save Settings* before leaving this screen. The following screen will appear. If WEP is not being used skip this.

WEP Settings





1. Selected the desired WEP key (1, 2, 3, or 4).

- 2. Enter the desired value in the fields adjacent to the selected WEP key. If 40 bit WEP is being used a 10 digit hexadecimal value will be entered. If 128 bit WEP is being used a 26 digit hexadecimal value will be entered.
- 3 Remember to click on Save Settings.

Reboot

Click on Special Functions under Configuration in the left border.

2 Select Reset AP and click Perform Functions.

Ping

You can test wireless connectivity by performing a Ping to the access point.

- 2 On the PC click on <Start> then click on <Run>.
- 3 Type Ping xxx.xxx.xxx.xxx (where the xs are the IP address of the access point). A short display will indicate whether ping was successful.
- 4 Remember the PC will need a static IP address similar to the access point.

Configuration of Symbol 2846 Pocket PC Wireless Terminals

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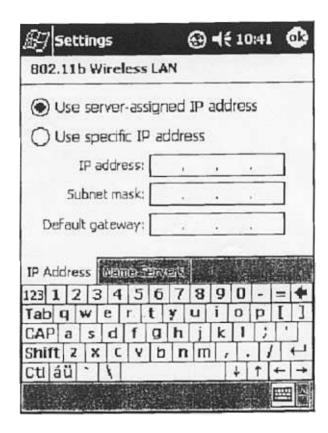
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Network Adapter

- 1. Select Settings from the Start menu.
- 2. Select Network Adapters from the Connections tab.
- 3. Select Spectrum 24 802.11b then click on Properties.

IP Address:



- 1. If IP address is to be obtained via DHCP no additional setup is needed but to insure "Use server-assigned IP address" is selected.
- 2. If IP address is to be entered manually enter a unique IP address for each wireless device with the Subnet mask. If a gateway is to be used enter the IP address. If not using a gateway leave this field blank.
- 3. Click **OK** to continue. Continue with OK until the Settings screen appears again.

Wireless Network Settings:

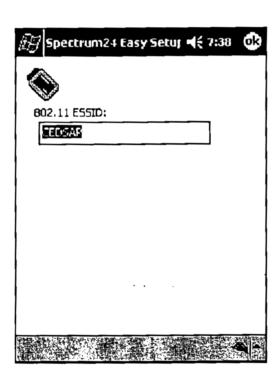
The Symbol Status screens can also be used to configure the Symbol 2846

wireless device. Click on the Symbol Status icon corner of the 700 displays.

in the lower right hand

2 Scroll using the Right\Left arrows to select the appropriate category.

ESSID:

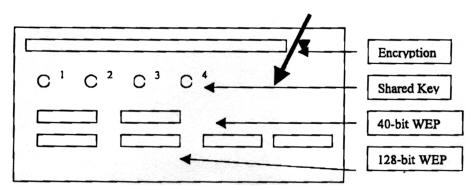


Enter the desired ESSID value. This should be the same as the access point.

WEP:

To set WEP values use the right arrow to select Encryption

- 1. If no WEP will be used insure Open System (no encryption) is selected and press OK.
- 2. If WEP will be used select either 40-bit or 128-bit shared key from the pull down window.
- 3. Select the desired Shared Encryption key (ie 1,2,3,4). This will be the same as the access point.
- 4. Enter the WEP value in the appropriate field and click **OK**. For 40-bit enter a 10 digit hexadecimal value in the 2 fields indicated below for 40-bit WEP. For 128-bit enter a 26 digit hexadecimal value in all 6 fields.
- 5. When complete click Apply then OK.



Confirming Association:

You can confirm association with access point in several ways

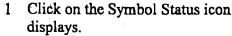


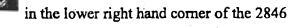
Click on the Symbol Status icon 2846 displays.

in the lower right hand corner of the

- 2 Using the right arrow select Signal.
- 3 If associated the display will indicate signal strength and which AP it is associated with.

Ping:





- 2 Using the right arrow select Ping.
- 3 Enter the IP address of the device you wish to ping and click Start Test.