

Radio Frequency Device Configuration

The instructions below describe the initial setup of the Intel PRO/Wireless 2011 LAN Access Point (AP), and a Telxon PTC-960SL scanning unit. Together these are used by DAC users for RF receiving, physical inventory and updating UPCs. Note: A Telxon PTC-960SL unit cannot be used to scan UPCs printed in red.

Before the configuration of the AP and the Telxon units can be completed, the following information must be obtained from the end user's network administrator:

- A static IP address for the user's AS/400's ethernet card. Initially, the IP address of CDR's "support box" AS/400 is used for testing. As of 3/22/01, this was ##.##.##.
- A static IP address for Access Point. Initially, an IP address available for use by CDR is used for testing. As of 3/22/01, this was ##.##.##.
- A static IP address for each Telxon unit that is configured for the user. Initially, IP addresses available for use by CDR are used for testing. As of 3/27/01, three of these were ##.##.## through ##.##.##.
- If a value other than the default (255.255.255.255) is used, the necessary value for the **Broadcast Addr** field which is entered during RF Setup of the Telxon units. As of 3/22/01, the default was used for testing at CDR.
- If a value other than the default (255.255.255.0) is used, the necessary value for the **Subnet Mask** field which is entered during RF Setup of the Telxon units. As of 3/22/01, the default was used for testing at CDR.
- If a value other than the default (255.255.255.0) is used, the necessary value for the **Subnet Mask** field which is entered during the setup of the AP. As of 3/22/01, the default was used for testing at CDR.

Intel PRO/Wireless 2011 LAN Access Point

The Intel PRO/Wireless 2011 LAN Access Point (AP) serves as the communication bridge between the end user's physical wired network and the Telxon scanning units.

As previously noted, the following must be obtained from the end user's network administrator before the setup of the AP can be completed:

- A static IP address for the ethernet card of the user's AS/400.
- A static IP address for Access Point.
- If a value other than the default (255.255.255.0) is used, the necessary value must also be obtained for the **Subnet Mask** field which is entered during the setup of the AP.

Connecting To The Access Point

After physically connecting the Access Point (AP) to a personal computer (PC) on CDR's network using a serial cable, run the Window's HyperTerminal program to make a new connection between the AP and the PC. The following instructions may vary depending on which version of Windows is used.

1. When the Connection Description window appears, enter a name for the connection and click OK. The Connect To window appears.
2. Select the appropriate port for the **Connect using** field and click OK. The Properties window for the port, such as COM1 Properties, appears.
3. Select 19200 for the **Bits per second** field of Port Settings and click OK. The connection to the AP should be complete.

Initial Setup Of Access Point

After the connection from the PC to the AP is complete:

1. Press <Enter> . The System Summary screen appears.
2. Press <ESC> . The AP's Main Menu appears.
3. Press <Tab> to move cursor to the **Set RF Configuration** field, and press <Enter> .
4. Enter *Intel* for the **Enter System Password** field, and press <Enter> . The RF Configuration screen appears. Note: The password is case-sensitive, and the cursor does not move when the password is entered.
5. Press <Tab> to move the cursor to the **Short RF Preamble** field, and press <Space> to change the value of the field from *Enabled* to *Disabled*.
6. Press <Tab> to move cursor to Save-[F1] and press <Enter> . The *Are you sure?* message appears.
7. Press <Tab> to move cursor to Yes and press <Enter> . The AP's Main Menu appears.
8. Press <Tab> to move cursor to the **AP Installation** field, and press <Enter> . The Access Point Installation screen appears with *Intel PRO/Wireless 2011 LAN* for the value of the **Unit Name** field.
9. Enter a new value for the **Unit Name** field to identify the AP, such as *API*.

10. Press <Tab> to move cursor to the **IP Address** field, and enter the static IP address of the Access Point. Initially, an IP address available for use by CDR is entered for testing. As of 3/22/01, ##.##.## was used. After testing, the static IP address supplied by the end user must be entered for the **IP Address** field.
11. Press <Tab> to move cursor to the **Gateway IP Address** field, and enter the static IP address of the AS/400's ethernet card. Initially, the IP address of CDR's "support box" AS/400 is entered for testing. As of 3/22/01, this was ##.##.##. After testing, the static IP address of the ethernet card of the end user's AS/400 must be entered for the **Gateway IP Address** field.
Note: The IP address entered for this field must be identical to the IP address entered for the **Host IP Addr** field when configuring the Telxon unit (refer to RF Setup below).
12. Press <Tab> to move cursor to the **Subnet Mask** field. If a value other than the default is used, enter the necessary value for the field. As of 3/22/01, the default (255.255.255.0) was used for testing at CDR. If necessary after testing, the value supplied by the end user must be entered for the **Subnet Mask** field.
Note: The value entered for this field must be identical to the value entered for the **Subnet Mask** field when configuring the Telxon unit (refer to RF Setup below).
13. Press <Tab> to move cursor to the **Net_ID (ESS)** field, and enter three alphanumeric characters, or use the default of 101.
Note: The value entered for this field must be identical to the value entered for the **Enter SSID** field when configuring the Telxon unit (refer to RF Setup below).
14. Press <Tab> to move the cursor to the **DHCP** field, and press <Space> to change the value of the field from *Enabled* to *Disabled*.
15. Press <Tab> to move cursor to Save-[F1] and press <Enter>. The *Are you sure?* message appears.
16. Press <Tab> to move cursor to Yes and press <Enter>.

Connecting To The AS/400

After HyperTerminal is used to disconnect the PC from the Access Point (AP):

1. Physically disconnect the PC from the AP.
2. Unplug and replug the AP to the electrical wall outlet.
3. Physically connect the AP to CDR's network via the Ethernet.

After the configuration of a Telxon unit is complete, refer to Radio Frequency Device Testing for instructions to verify that a connection to the AS/400 can be made using the Access Point.

Reconfiguration Of Access Point

After successfully testing the Access Point (AP) and Telxon units at CDR, use the MS-DOS Telnet command of a networked PC to connect to the AP, and make the necessary changes in its configuration for the end user. The following instructions may vary depending on which version of Windows is used.

1. Use Window's MS-DOS Command Prompt to enter *Telnet ###.###.###.###* where *###.###.###.###* is the IP address of the AP which was previously entered for the **IP Address** field.
2. Press <Enter> .
3. Enter *Intel* for the **User/Admin password** field, and press <Enter> . Note: The password is case-sensitive, and the cursor does not move when the password is entered.
4. Press <ESC> when the *Admin Access...enter ^D to terminate, ESC to enter UI* message appears. The Telnet window appears with the AP's Main Menu.
5. Press <Tab> to move the cursor to the AP Installation field, and press <Enter> . The Access Point Installation screen appears.
6. Enter the user-supplied IP address of the AP for the **IP Address** field.
7. Enter the user-supplied IP address of the AS/400's ethernet card for the **Gateway IP Address** field. Note: The IP address entered for this field must be identical to the IP address entered for the **Host IP Addr** field when reconfiguring the Telxon unit for the end user (refer to RF Setup below).
8. If used, enter the user-supplied value for the **Subnet Mask** field. Note: The value entered for this field must be identical to the value entered for the **Subnet Mask** field when reconfiguring the Telxon unit for the end user (refer to RF Setup below).
9. Press <Tab> to move the cursor to Save-[F1] and press <Enter> . The *Are you sure?* message appears.
10. Press <Tab> to move the cursor to Yes and press <Enter> . The AP's Main Menu appears.
11. Click the Connect menu item of the Telnet window, select Disconnect, and close the Telnet window.
12. Type *Exit* at the C: prompt of the MS-DOS Command Prompt window, and press <Enter> to exit.

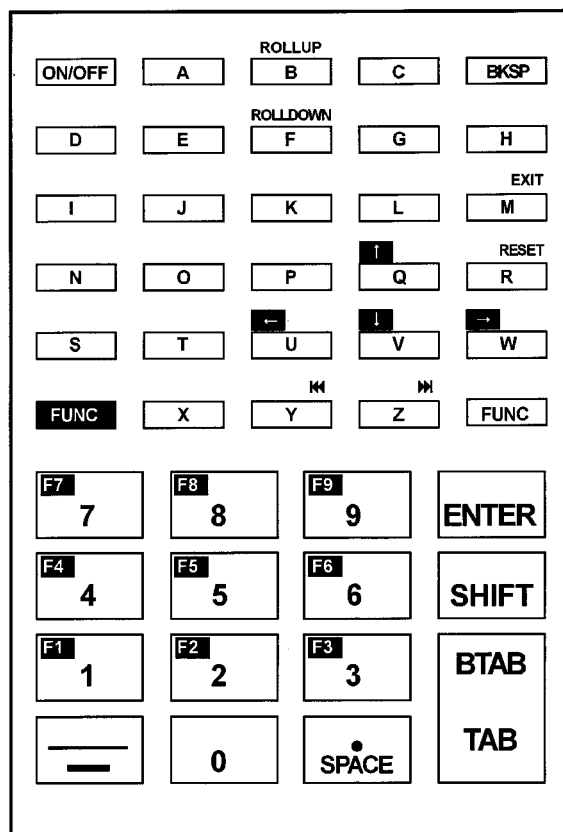
Refer to RF Setup below for information about making similar changes in the setup of the Telxon units.

Telxon PTC-960SL

The Telxon PTC-960SL is a battery-powered, hand-held computer programmed by CDR to scan universal product code (UPC) numbers (also called bar codes). Note: A Telxon PTC-960SL unit cannot be used to scan UPCs printed in red.

As previously noted, the following information must be obtained from the end user's network administrator before the setup of the Telxon units can be completed:

- A static IP address for the ethernet card of the user's AS/400.
- A static IP address for each Telxon unit that is configured.
- If used, the necessary values must also be obtained for the **Broadcast Addr** and **Subnet Mask** fields which are entered during RF Setup (see below).



Layout Of The Telxon PTC-960SL Keypad

The <On/Off> key can be pressed at any time to power off the Telxon unit, but the last screen (or field) displayed will appear when the key is pressed again to power on the unit.

The Telxon unit will timeout (due to inactivity by the user) and power itself off. If this occurs, press <On/Off> to power on the unit. As noted above, the last screen (or field) displayed will appear when the key is pressed again to power on the unit.

Pressing <Q> (Quit) when the Configure PTC screen appears will not power off

the unit. Refer to Working From C: Prompt below for information about returning to the Configure PTC screen if the C: prompt (or A: prompt) appears.

The <Yellow Func> and <Green Func> keys, which are used to configure the Telxon unit, are illustrated above as follows:

- <Yellow Func> is the black key with FUNC printed in white text on the left side of the keypad.
- <Green Func> is the white key with FUNC printed in black text on the right side of the keypad.

Initial Setup Of Telxon Units

After charging the pre-installed batteries in the Telxon unit:

1. Press <On/Off> to power on the unit.
2. Press <Enter> (0 = Do Not Use) when the Serial Mac Found screen appears.
3. Enter a number for the **PTC Id** field to identify the unit, and press <Enter>. Valid values are any number from 1 to 254, but a different value must be assigned to each unit that the end user will use.
4. Press <Enter> when the **Display Intense Fields As** field appears, and continue to press <Enter> until the Configure PTC screen (illustrated below) appears.
5. Press <On/Off> to power off the unit.

If necessary, press <2> (PTC) of the Configure PTC screen to change the values of the fields described above.

```
Configure PTC
1. Emul
2. PTC
3. RF
4. Version
5. Display
6. Wand Q. Quit
Choose Option_
```

If the C: prompt (or A: prompt) inadvertently appears at any time during the use of a Telxon unit, refer to Working From C: Prompt below for information about redisplaying the Configure PTC screen.

RF Setup

1. Press <3> (RF) of the Configure PTC screen.
2. Enter *101* for the **Enter SSID** field, and press <Enter> .
Note: The value entered for this field must be identical to the value entered for the **Net_ID (ESS)** field when configuring the Access Point (refer to Access Point Setup above). If the default value of *101* was not entered for the **Net_ID (ESS)** field, enter the three alphanumeric characters which were used.
3. Press <Enter> for both the **Power Save Mode** and **Port Number** fields.

Note: To enter the IP addresses for the fields below, the <Yellow Func> key must be pressed and released before pressing <SPACE> for each period (.).

4. Enter the static IP address of the AS/400's ethernet card for the **Host IP Addr** field, and press <Enter> . Initially, the IP address of CDR's "support box" AS/400 is entered for testing. As of 3/22/01, this was *##.##.##*. After testing, the static IP address of the ethernet card of the end user's AS/400 must be entered for the **Host IP Addr** field.
Note: The IP address entered for this field must be identical to the IP address entered for the **Gateway IP Address** field when configuring (and reconfiguring) the Access Point (refer to Initial Setup Of Access Point and Reconfiguration Of Access Point above).
5. Enter the static IP address of the Telxon unit for the **PTC IP Addr** field, and press <Enter> . Initially, an IP address available for use by CDR is entered for testing. As of 3/27/01, *##.##.##* through *##.##.##* were used to test three Telxon units. After testing, the static IP address supplied by the end user must be entered for the **PTC IP Addr** field.
6. If a value other than the default is used, enter the necessary value for the **Broadcast Addr** field, and press <Enter> . As of 3/22/01, the default (*255.255.255.255*) was used for testing at CDR. If necessary after testing, the value supplied by the end user must be entered for the **Broadcast Addr** field.
7. If a value other than the default is used, enter the necessary value for the **Subnet Mask** field, and press <Enter> . As of 3/22/01, the default (*255.255.255.0*) was used for testing at CDR. If necessary after testing, the value supplied by the end user must be entered for the **Subnet Mask** field.
8. Enter the user-supplied values, if necessary, for the seven fields which follow **Subnet Mask** field, and/or press <Enter> to continue until the Configure PTC menu appears.
9. If necessary, press <On/Off> to power off the unit.

Wand Setup

1. Press <6> (Wand) of the Configure PTC screen.
2. Press <Enter> when the **Engine Type** field appears, and continue to press <Enter> until the **Auto Key Upon Scan** field appears.
3. Press <1> (Field Exit) when the **Auto Key Upon Scan** field appears, and continue to press <Enter> until the **Number of Barcodes To Configure** field appears.
4. Press <4> when the **Number of Barcodes To Configure** field appears, and press <Enter>.
5. Press <Enter> to accept the default value of 00 for the fields which appear next with the following exceptions:

Barcode #1

Label Type: Press <2> (UPC)
UPC: Press <1> (EAN-8,EAN-13)
Label Length: Press <8> and press <Enter>
Drop Last: Press <2> and press <Enter>

Barcode #2

Label Type: Press <2> (UPC)
UPC: Press <2> (A,E,EAN-8/13)

Barcode #3

Label Type: Press <1> (Code 2 of 5)
CODE 2 OF 5: Press <2> (Interleaved)

Barcode #4

Label Type: Press <3> (Misc)
Misc Barcodes: Press <2> (Code 128)
Label Length: Press <2> <4> and press <Enter>
Drop First: Press <5> and press <Enter>
Drop Last: Press <9> and press <Enter>

Barcode #5

Label Type: Press <3> (Misc)
Misc Barcodes: Press <2> (Code 128)

6. Press <Enter> until the Configure PTC screen appears.
7. If necessary, press <On/Off> to power off the unit.

Working From C: Prompt

Use the following steps to return to the Configure PTC screen.

1. If the A: prompt is displayed, refer to Working From A: Prompt below.
2. From the C: prompt, press the bottom left key (---) of the keypad.
3. Press <Green Func > .
4. Press <Enter > .
5. Press <Green Func > .
6. If necessary, press <On/Off> to power off the unit.

Working From A: Prompt

Use the following steps to return to the Configure PTC screen if the A: prompt appears:

1. Press <On/Off> to power off the unit.
2. Press and hold the keys in the two bottom corners of the keypad, as you press <On/Off> once.
3. Continue holding the two bottom keys only until the **Current Date Is...** prompt appears.
4. Release the two bottom keys, and press <TAB> until the C: prompt appears.
5. When the C: prompt appears, refer to Working From C: Prompt above for information about returning to the Configure PTC screen.

Radio Frequency Device Testing

After the configuration of both the Access Point (AP) and a Telxon unit is complete, follow the instructions below to verify that a connection to the AS/400 can be made:

1. Press <1> (Emul) of the Configure PTC screen.
2. Press any key when the *Changes Require Reboot To Apply Hit Any Key* message appears.
3. Press <1> (Emul) when the Configure PTC screen appears. The AS/400 Sign On screen appears if a connection was successfully made to the AS/400.
4. To exit (without signing on), press <Green Func> , then press <M> (Exit). The Exit Menu appears.
5. Press <2> (Exit Emulation). The Configure PTC screen appears.
6. If necessary, press <On/Off> to power off the unit.

After successfully testing the AP and Telxon units at CDR, refer to RF Setup to make the following changes in the configuration of the scanners:

- Enter the user-supplied IP address of the AS/400's ethernet card for the **Host IP Addr** field.
- Enter the user-supplied IP address for each Telxon unit for the **PTC IP Addr** field.
- If used, enter the necessary user-supplied values for the **Broadcast Addr** and **Subnet Mask** fields.

Refer to Reconfiguration Of Access Point for information about making similar changes in the setup of the AP.