

Setting up the Spectrum 24 AP

This part of the document will walk you through the procedure for setting up the AP, or access point. The AP is the device that enables wireless communication between the server and the scanner. It interfaces with the network via a standard cat 5 cable, and passes the signals between the scanner and server across radio frequency waves. You will need a 9 pin female/ 9 pin female null serial cable, the access point, and access to a server or a PC. The following instructions will use the server. The procedure for using a PC may differ slightly because of the program that it uses for serial connections will be different. If you are going to connect the AP to the switch or hub, use a straight through cat 5 cable. If you will be connecting it directly to a NIC, then use a null (crossover) cable.

- 1.) Plug the AP into the wall with the ac adapter that came with it. Now plug one end of the serial cable into the serial connection on the AP, and the other end into an open com port on the server and note which one it is. (com1, or com2) Then connect your network cable to your AP and the other end to the switch, hub, or server.
- 2.) Log in as root on the server and get to the #.
- 3.) Type 'mblink' and press <enter>.
- 4.) If it asks you to reconfigure press 'y', else press <ctrl> and '[' at the same time.
- 5.) Press 'c', then 'c' again.
- 6.) Now type the name of the com port the cable is plugged into on the back of the server. If you are using com1 then the name will be 'tty1a', if it is com2 then the name will be 'tty2a'.
- 7.) Press 'b' then 'p'. This will set the baud to 19200.
- 8.) Press <enter> twice, this should bring up the Symbol Access Point Main Menu. If it does not, press enter a few more times, else check your cable at both ends. Also make sure that you have it in the same port you noted earlier.
- 9.) Arrow down to 'Enter Admin Mode' and press <enter>. The password is 'Symbol', as shown without the single quotation marks. (capital S, lowercase ymbol) Press <enter>.
- 10.) Arrow to 'AP Installation', press <enter>.
- 11.) Beside 'IP Address', type a valid and unique IP address. (Not the same as the scanner or any other device on the network.) If this store is a remote, then also put the proper gateway. For 'Subnet Mask' input '255.255.255.0'.
- 12.) The 'NET_ID (ESS)' should be 101 by default. <Backspace> it out and type 'linksys'. If you will have multiple AP's then give it an id that will allow it to work with only the RF units that you want it to work with. Example: Say you have two scanners and two AP's. You want one scanner and AP to go to the paint department, and the others to go to the hardware department. If you don't want them to communicate with the other's AP, you could make one scanner and AP's ESS be 'hardware', and the other be 'paint'. The point is that the access point will ignore any device that does not share the same ESS ID.

- 13.) Arrow down to '.Antenna Selection', if you have 1 antenna, choose 'Primary Only' by hitting the spacebar. If you have 2 antenna's the choose 'Primary and Secondary'. Then press <F1>, then 'y' to save.
- 14.) Go to 'Exit Admin Mode' and press <enter>. Then press <ctrl> and ']' at the same time, then 'q' to quit.
- 15.) Unplug the power cable to the access point, wait for a few seconds and then plug it back in. This will cause it to come up with its new settings. It will **NOT** take on the new settings until you do this.
- 16.) Once it is back up, ping the access point from the server. The command will look something like this 'ping 192.168.1.200'. When you type it, you will use the IP address you gave it instead of 192.168.1.200. If it pings, then it has accepted its new settings. Otherwise you will have to do it all over again.