123 Fast Installation Guide LanPro's LP-1520ai Radio in Modes PtP, MP+AP (WDS+AP)

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This Fast Installation Guide will let you perform a fast installation of this device.

1 **Check the box contents and physical installation as per the following list:**

- LP-1520ai Radio.
- LP-PoE150 Injector.
- Power cable.

2 **Physical connection**

- Connect the Data + Power UTP Cable coming from the LP-PoE150 injector to the Watertight connector on the bottom of the LP-1520ai Radio from LanPro.

- Connect a Cat5e cable as per the 568a or 568b standard from the port marked as Data on the LP- PoE150 to the Switch. (In case you want to configure the radio in a direct manner, please use a crossed cable).

3 **Logical Configuration**

3.1 Please go to your Network Card (NIC) properties as shown in figure 1 and configure the IP protocol to Obtain an IP address automatically as shown in figure 2.
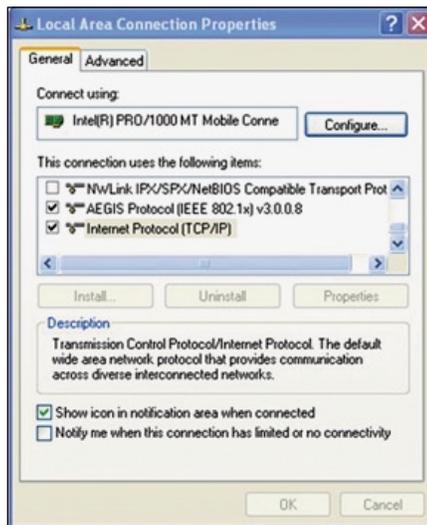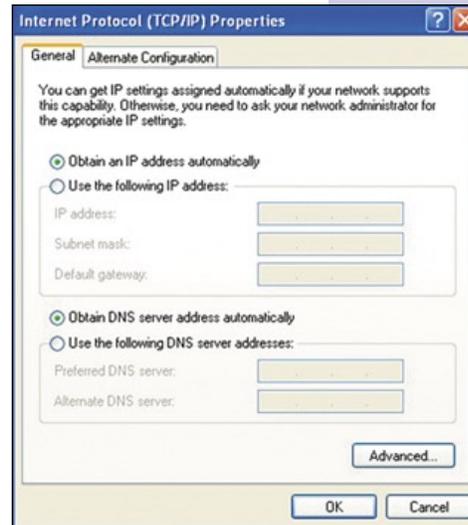
Figure 1   Figure 2

3.2 Open your preferred Browser and input the following address: 192.168.1.254 as shown in figure 3. The configuration window will pop-up but won't ask for a Username or Password.
Note: remember to select a Username and password for your equipment as the configuration might be accesed by any one.

Figure 3

3.3 You should define the functionality of your Radio. The possible modes are:

- **WDS:** in case you want to create a link between two or more points (PtP, PtmP).
- **WDS+Client:** case you want to create a link between two or more points (PtP, PtmP) and accept Client type connections.
- **AP:** mode AP in which your equipment will serve to extend your wired network into a wireless way.
- **Client:** Mode in which the AP will be a client of a wireless network, or to link two wired networks, or as a client of a WLAN that is farther than a Wireless card can reach.

3.4 In the window shown in figure 4, you should disable the DHCP service and change the IP address by selecting options **TCP/IP Settings**, **LAN Interface**, change the IP address as per your convenience, select **DHCP** and **Disabled**. Please select **Apply Changes** in order to activate them.

Figure 4

3.5 Please go to your NIC card properties as shown in figure 5 and configure the IP protocol as shown in figure 6 so that it is in the equipment range. In this example, it should be in the segment 192.168.1.x. where x must be different to 254 as it belongs to the LP-1520ai.
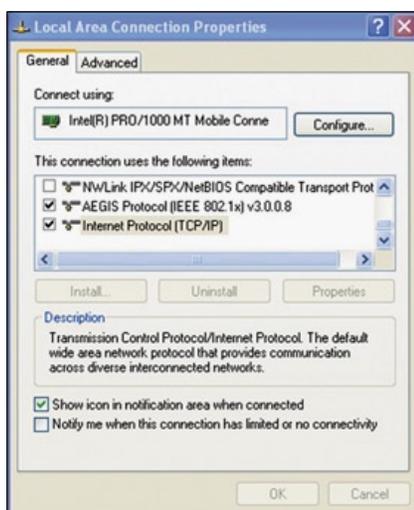

Figure 5   **Figure 6**

3.6 Please open your preferred browser and place the following address: 192.168.1.254. A configuration window will pop-up as shown in figure 7, it won't ask for a Username or password. **Note: please remember to define a username and password because anyone could Access the Configuration and change it without your permission.**

Figure 7

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4 **Modes Configuration:**

4.1 In figure 8,
Mode: **WDS+AP:** Please select option **Basic Settings**, select **Mode WDS+AP**, and the channel number desired, it is important to mention that the same channels must be used by everybody in PtP and PtmP links. Select a name for your WLAN, this will be the one all the clients will identify as the one to connect to. Once changes are made, select **Apply Changes in order to save the changes.**
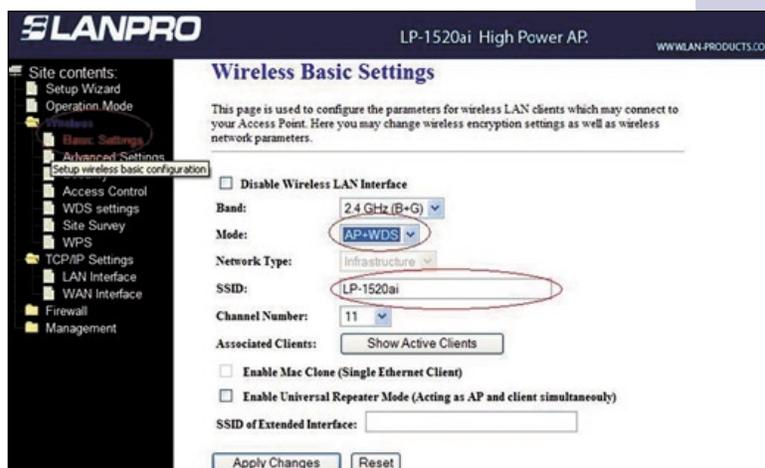
Figure 8

4.2 In figure 9, please select option **WDS Settings**, enable option **WDS**, add each **MAC Address** including a short **description**, which must refer to those AP's that will communicate with your WLAN. Remember to use the same cannel for this purpose, then select: **Apply Changes** in order to register the changes. Please repeat this operation for each AP with which this mode will be used.
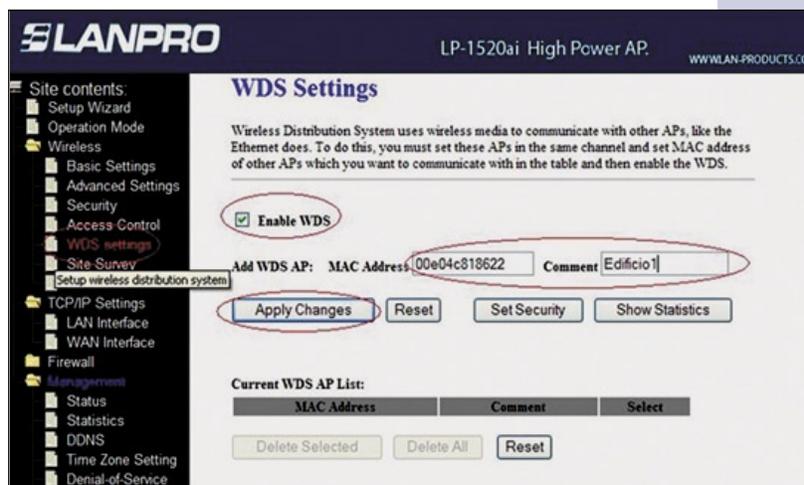

Figure 9

4.3 In figure 10, please select option Set Security, then configure the desired encryption option.
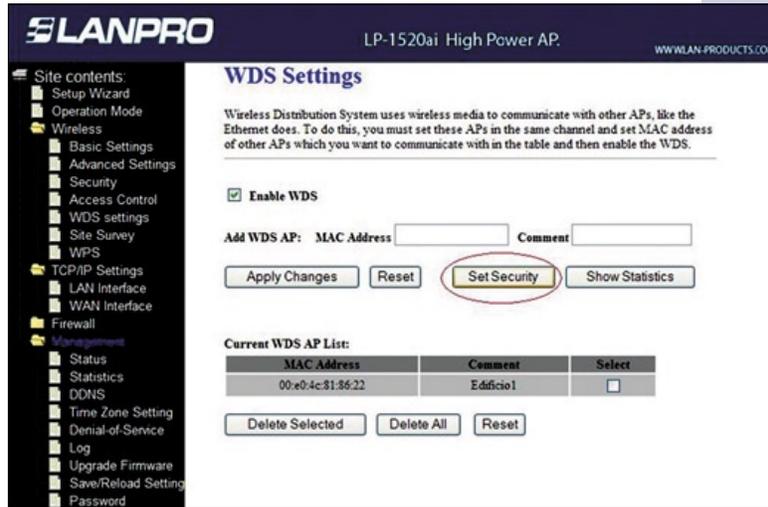

Figure 10

4.4 In figure 11, once the encryption is selected, and the corresponding data has been input, select Apply Changes.

Figure 11

4.5 You must configure the security of the clients that are to be connected to the LP-1520ai, in figure 12, please select **Wireless**, **Security**, choose the configuration mode from the options you desire to use, and finally select option **Apply Changes** in order to register the changes.

Figure 12

4.6 It is important to mention that the WPS functionality will be enabled automatically when the function WDS+AP is activated, this permits a very simple client setup. If this is not desired, select option **WPS as shown in figure 13**, and then select **Disable WPS**. Finally select **Apply Changes** in order to register the changes.

Figure 13

4.7 Once the equipment has been configured you must establish your password. As shown in figure 14, select **Management**, **Password** and place the corresponding data. Once done, select **Apply Changes**.

Figure 14

Notes

For antenna alignment, you must have a line of sight with the other radio antenna. The aperture of this antenna is about 45 degrees in the horizontal plane. There are applications in which a distance of 6 Km has been achieved with excellent results.

This radio can be fixed to a post or a wall, taking care of positioning it in a manner that the cable enters underneath it.