123 Fast Installation Guide

The LP-1520ai Radio

by LanPro in WDS Mode

www.lanpro.com

This fast installation guide will help you easily install your device.

1 **Please check the box contents and physical installation as shown in this list:**

- LP-1520ai Radio.
- LP-PoE150 PoE Power Injector.
- AC power cable.

2 **Physical connection**

- Please connect the UTP cable carrying the Data and Power to the Radio port coming from the PoE Injector port labeled Power+Data.

- Connect a 568a or 568b Cat 5e patchcord from the LP-PoE150 port labeled: DATA   to the Switch. In case you want to configure it from a computer, please use a cross-connect cable.

3 **Logic configuration**

3.1 Please go to your network card properties as shown in figure 1 and configure the IP Protocol to obtain the IP address automatically as shown in figure 2.
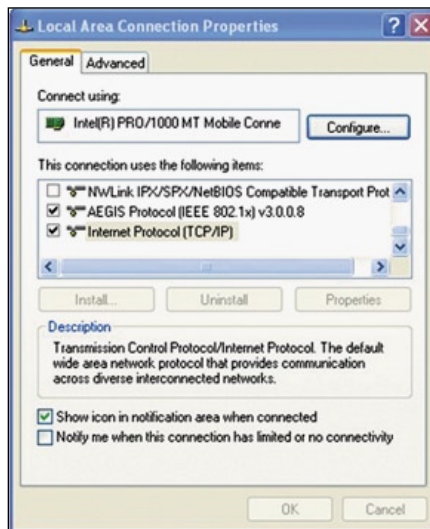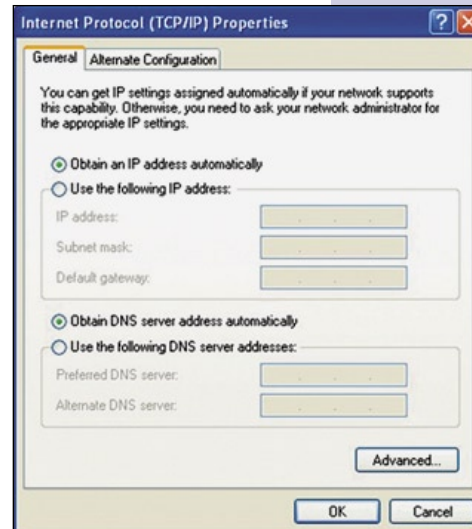

Figure 1   **Figure 2**

3.2 Please open the browser of your preference and search the following IP address: 192.168.1.254 as shown in figure 3. The configuration window will pop-up. No User or Password will be needed at this time. Note: remember to select a new user name and password in order that no one else can Access the configuration of the equipment.
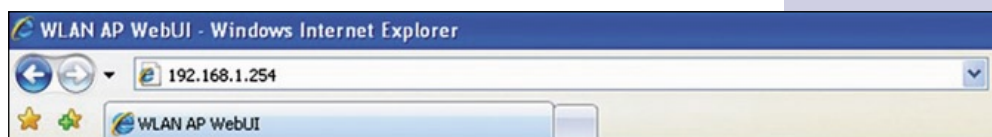

Figure 3

3.3 You should now define the mode of functionality:

- **WDS:** when you want to setup a link between two(2) or more points (PtP or PtMP).
- **WDS+Client:** when you want to create a link between two(2) or more points (PtP or PtMP) and accept cliente connections.
- **AP:** the AP mode is used to extend your current LAN to a WLAN.
- **Client:** Mode in which the AP will be a Client of a WLAN to join to geographically separated LANs or as a Client of a WLAN in which a WLAN Network card doesn't have enough coverage.

3.4 In the window shown in figure 4, you must disable the DHCP service and change the IP address. For doing this, please select the option: **TCP/IP Settings**, **LAN Interface**, change the IP address as per your convenience, select **DHCP** and **Disabled**. Select **Apply Changes** to confirm the changes.
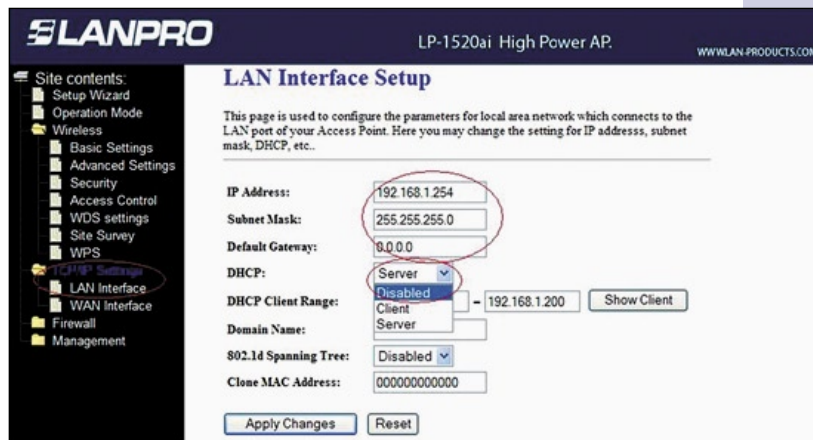

Figure 4

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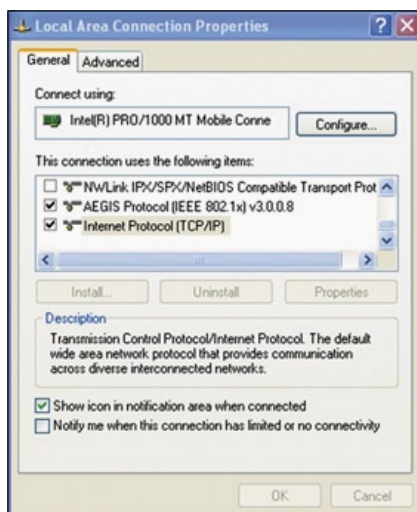

Figure 5   **Figure 6**

3.6 Please open your browser and place the address: 192.168.1.254. Then, the configuration window will pop-up. No User or Password will be needed at this time. **Note: remember to select a new user name and password in order that no one else can Access the configuration of the equipment.**
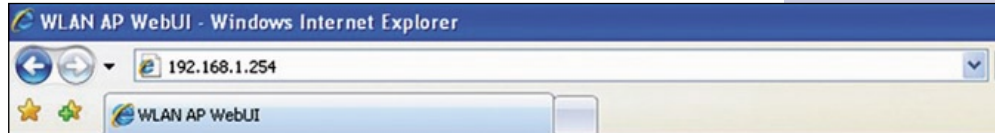

Figure 7

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4   **Configuration of the different modes**

4.1 In figure 8,
Mode: **WDS:** Select option: **Basic Settings**, also select: **Mode WDS**, the desired channel number. **Note: It is important to mention that in PtP and PtMP links the channel must be common to all of them.** Once changes have been selected, select: **Apply Changes** to save the changes made.
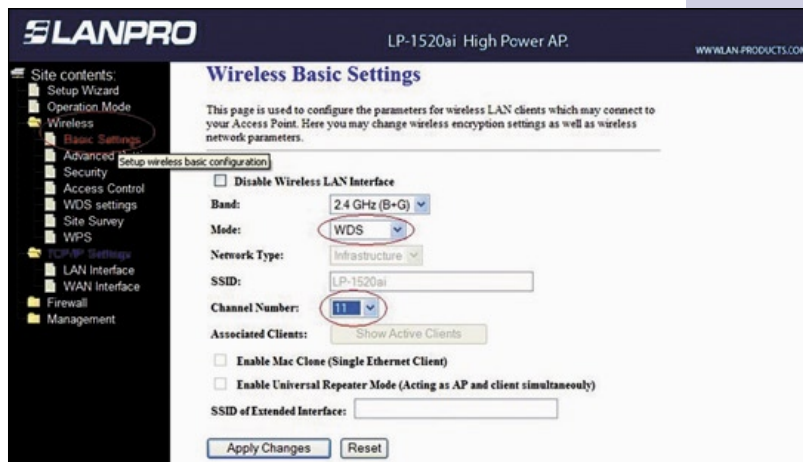

Figure 8

4.2 As shown in figure 9, an Alert will pop-up to notify you that in WDS mode the WPS will be disabled, then select **OK**.
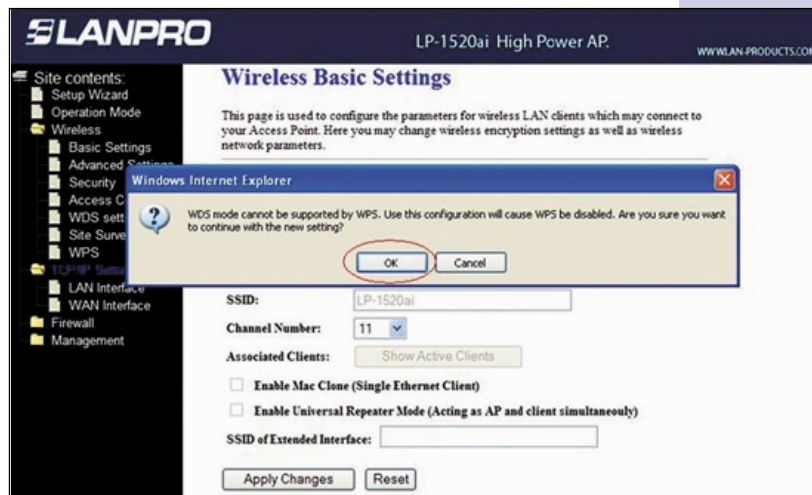

Figure 9

4.3 Wait for changes confirmation.

4.4 Now select option **WDS Settings** as shown in figure 10, enable option **WDS**, add each **Mac Address** with a short description, this refers to the AP´s to which this AP is going to communicate with, remember they must be in the same channel. Select: **Apply changes** to register the changes. Repeat this operation for each AP in which you want to use this mode.
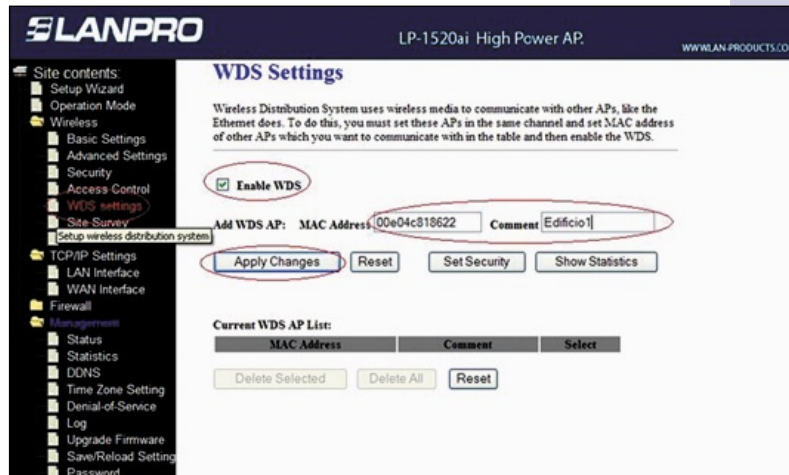

Figure 10

4.5 In figure 11 please select option: **Set security** and configure the desired encryption option:
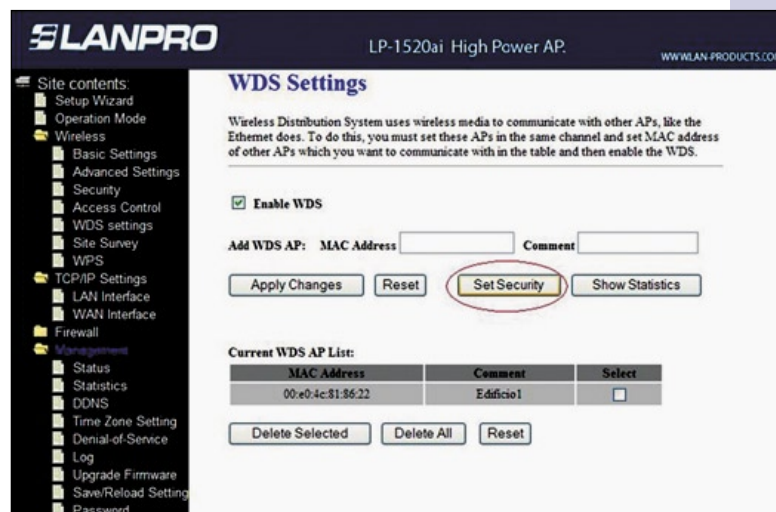

Figure 11

4.6 Once the encryption mode is selected in the window shown in figure 12 and other options are input, select: **Apply Changes.**

Figure 12

4.7 Once the equipment has been configured, you must place an Access password as shown in figure 13. In order to perform this, please select option: Management, password and placing the selected ones, please select **Apply changes**.
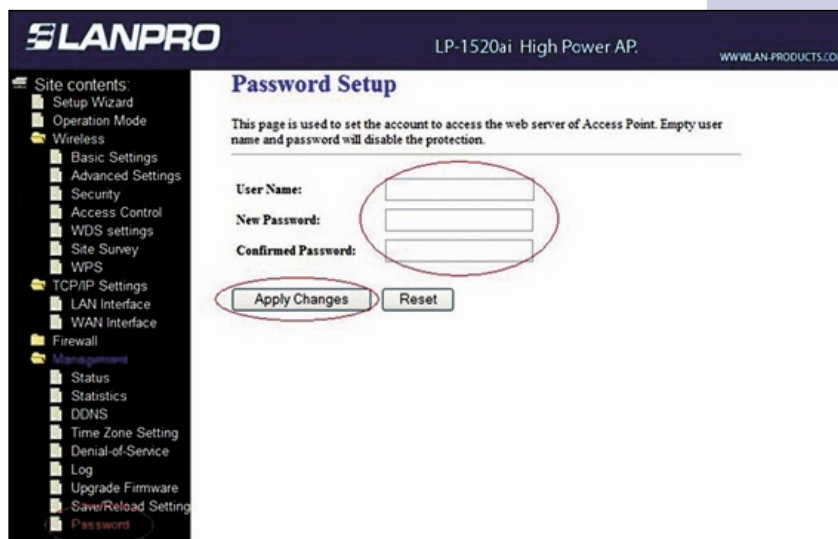

Figure 13

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 have 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 from the bottom.