

123 Manual, LP-1521 Broadband AP Router. Configuration of Bandwidth Control

LP1521_M123_ENQ01W



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1

Check the content of the box, as shown in **Figure 1**.



Figure 1

2

Screw the antenna, as shown in **Figure 2**.



Figure 2

3

Connect to electric power, as shown in **Figure 3**.



Figure 3

4

Connect your PC to a LAN port of the LP-1521, as shown in **Figure 4**.



Figure 4

5

Go to the properties of your network card and select **Internet Protocol / Properties**, as shown in **Figure 5**.

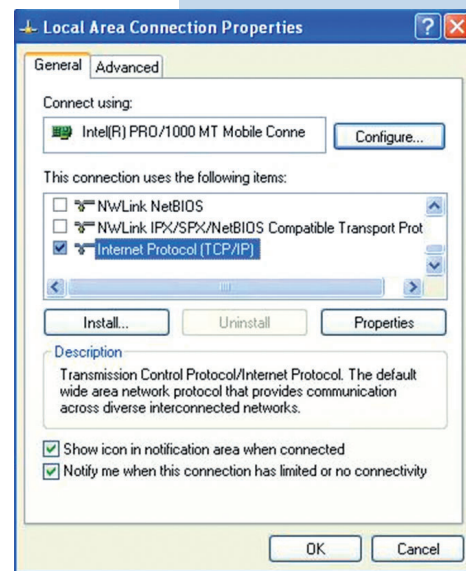


Figure 5

6

Select **Use the following IP address** and type an IP address in the LP-1521 IP range by default; for this example we have selected the **192.168.1.201**. The LP-1521 has the 192.168.1.254 address by default. In **Subnet mask** type **255.255.255.0**, in **Default gateway** the address of the destination router, in **DNS** you shall enter your provider DNS or the destination router IP providing the Internet service, so the corresponding queries are sent to the router of the destination network, as shown in **Figure 6**.

Once you have finished, select **OK** twice.

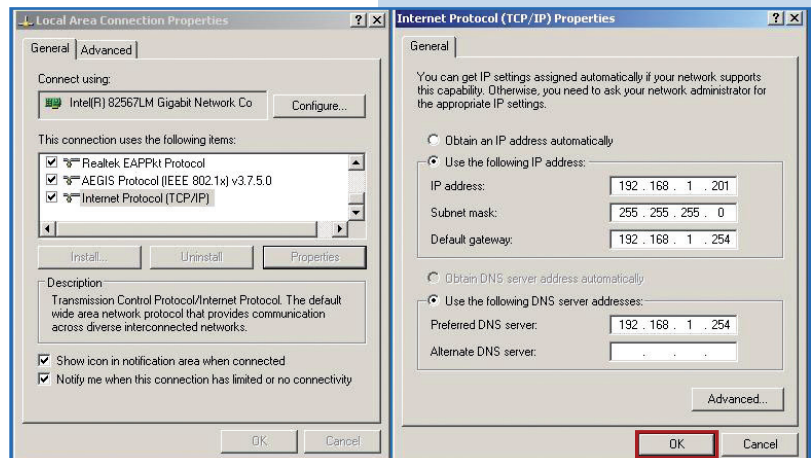


Figure 6

7

Open the web browser of your preference and type the default address **192.168.1.254**, as shown in **Figure 7**.

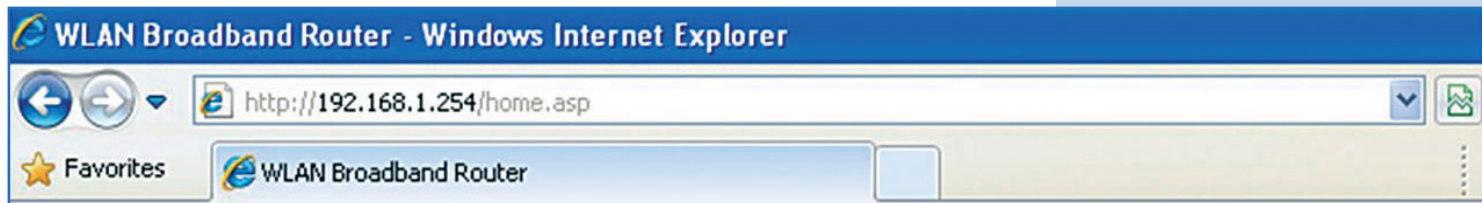


Figure 7

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Depending on the version and configuration, your equipment will request your administration credentials. Proceed to enter them and select **OK**, as shown in **Figure 8**. By default, the LP-1521 has **admin** and **password** as user and password respectively.



Figure 8

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Select the option **Management/QoS**, as shown in **Figure 9**.

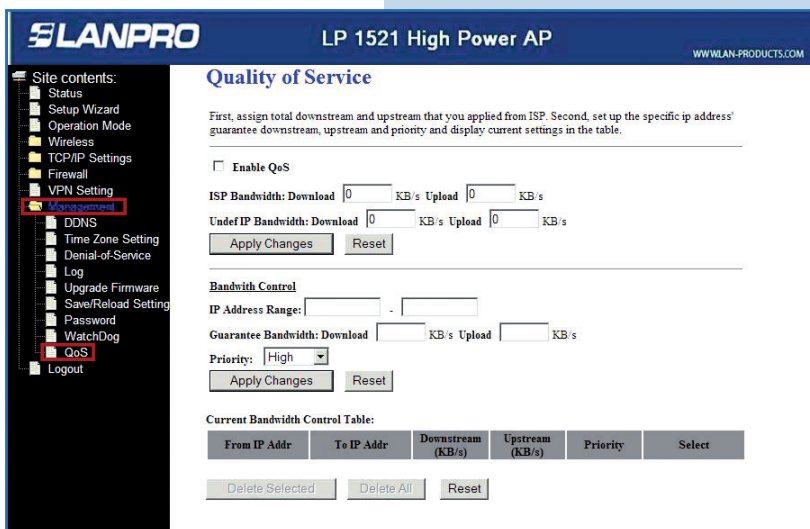


Figure 9

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At the top of the screen you will configure the speed of your service provider. To enable QoS functionality, select the box **Enable QoS**, as shown in **Figure 10**.

Figure 10

LANPRO LP 1521 High Power AP WWW.LAN-PRODUCTS.COM

Quality of Service

First, assign total downstream and upstream that you applied from ISP. Second, set up the specific ip address' guarantee downstream, upstream and priority and display current settings in the table.

Enable QoS

ISP Bandwidth: Download KB/s Upload KB/s

Undef IP Bandwidth: Download KB/s Upload KB/s

Bandwidth Control

IP Address Range: -

Guarantee Bandwidth: Download KB/s Upload KB/s

Priority:

Current Bandwidth Control Table:

From IP Addr	To IP Addr	Downstream (KB/s)	Upstream (KB/s)	Priority	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>					

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Proceed to configure the bandwidth of your service provider. In the box **ISP Bandwidth: Download** type the download speed of the provider. In **Upload** type the upload speed. Enter the maximum speed offered by your provider for asynchronous links, as shown in **Figure 11**. Remember that this option does not increase the bandwidth of your provider; this is a reference value for the rules to be defined in the LP-1521.

Figure 11

LANPRO LP 1521 High Power AP WWW.LAN-PRODUCTS.COM

Quality of Service

First, assign total downstream and upstream that you applied from ISP. Second, set up the specific ip address' guarantee downstream, upstream and priority and display current settings in the table.

Enable QoS

ISP Bandwidth: Download KB/s Upload KB/s

Undef IP Bandwidth: Download KB/s Upload KB/s

Bandwidth Control

IP Address Range: -

Guarantee Bandwidth: Download KB/s Upload KB/s

Priority:

Current Bandwidth Control Table:

From IP Addr	To IP Addr	Downstream (KB/s)	Upstream (KB/s)	Priority	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>					

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Configure the bandwidth for all the undefined traffic in the control rules (for the traffic that fails to comply the rules is regulated by this control). Type the download speed in the field **Undef IP Bandwidth: Download** and the upload speed in **Upload**, as shown in **Figure 12**.

Figure 12

LANPRO LP 1521 High Power AP WWW.LAN-PRODUCTS.COM

Quality of Service

First, assign total downstream and upstream that you applied from ISP. Second, set up the specific ip address' guarantee downstream, upstream and priority and display current settings in the table.

Enable QoS

ISP Bandwidth: Download KB/s Upload KB/s

Undef IP Bandwidth: Download KB/s Upload KB/s

Bandwidth Control

IP Address Range: -

Guarantee Bandwidth: Download KB/s Upload KB/s

Priority:

Current Bandwidth Control Table:

From IP Addr	To IP Addr	Downstream (KB/s)	Upstream (KB/s)	Priority	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>					

13

Save and apply the changes by selecting the option **Apply Changes**, as shown in **Figure 13**.

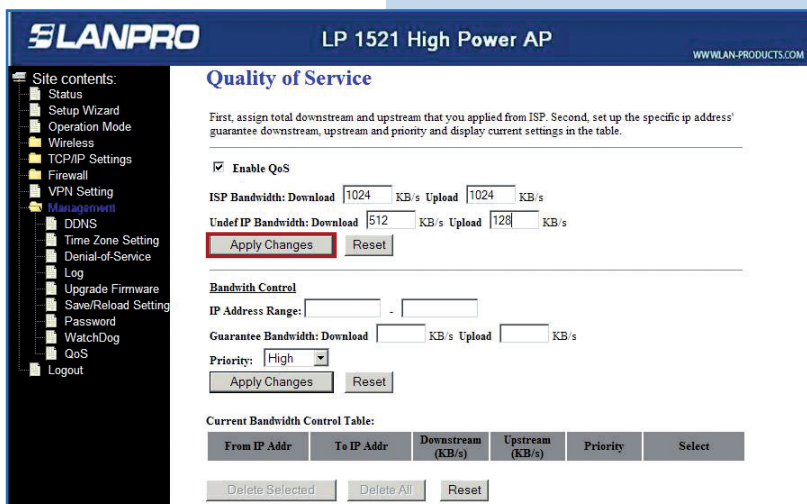


Figure 13

14

In the screen you will see that the changes were applied. Select **OK**, as shown in **Figure 14**.

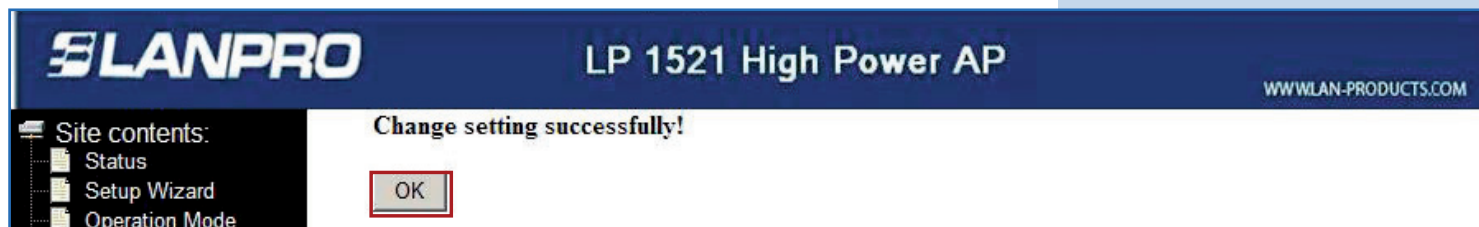


Figure 14

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Now proceed to configure your bandwidth rules for the users connecting to the LP-1521. To do this, fill the information of the fields in the section **Bandwidth Control**. In **IP Address Range** you shall type the IPs range to which the rule will be applied; in this example we use the address **192.168.1.100** to **192.168.1.200**. Next, enter the bandwidth to be assigned in the field **Guarantee Bandwidth**, in **Download** type the download speed and in **Upload** the upload speed, as shown in **Figure 15**. Remember that the speed is limited by your link speed and this bandwidth will depend on the traffic it has.

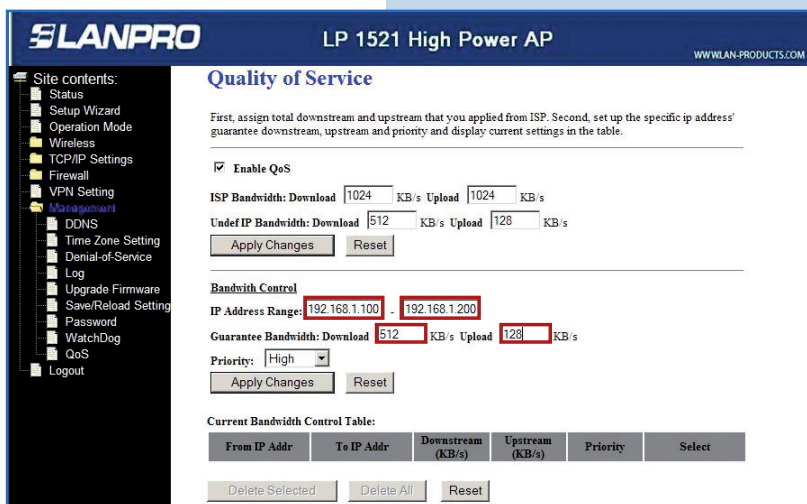


Figure 15

16

Additionally, you may assign the priority for the rules. Set the priority for the group of total IPs as **Low** in the field **Priority** (in this example), and select **Apply Changes**, as shown in **Figure 16**.

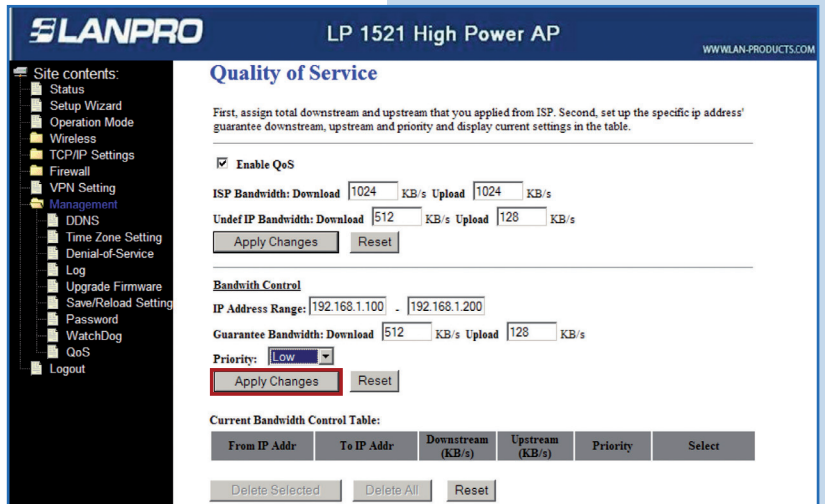


Figure 16

17

Note how the rule was added, as shown in **Figure 17**. You may eliminate it and make a new one in the option **Delete Selected**, which eliminates the selected rules, or **Delete All**, which eliminates all the rules.

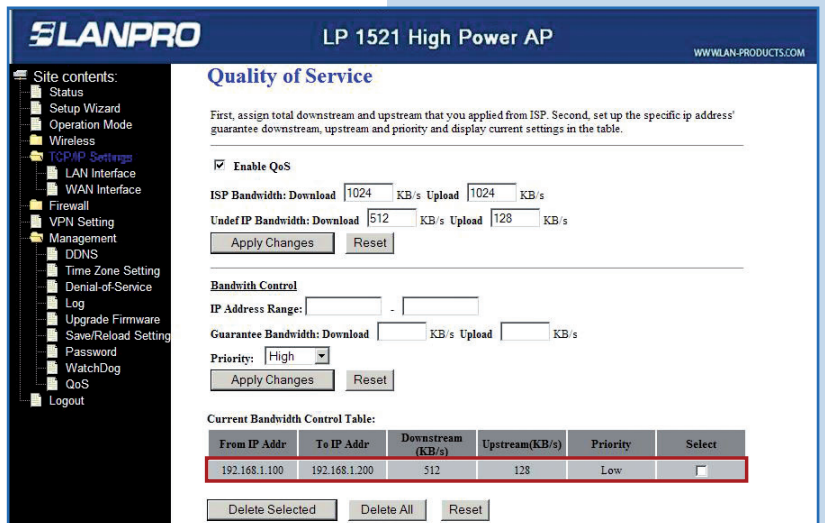


Figure 17

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Now we will make a rule to give more priority to an IP (192.168.1.190). Complete the fields and select **Apply Changes**, as shown in **Figure 18**. Remember that several rules for the same IP cannot be made.

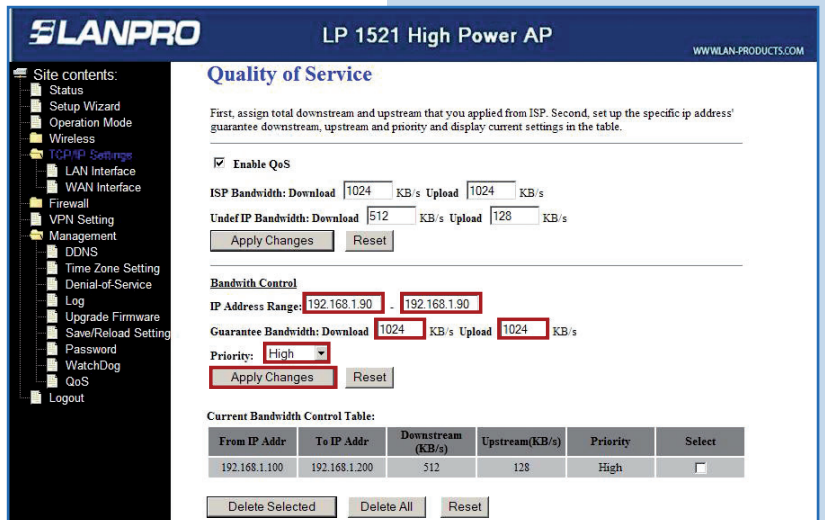


Figure 18

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Note how the added rules appear, as shown in **Figure 19**.

Figure 19

The screenshot shows the LANPRO web interface for the LP 1521 High Power AP. The main heading is "Quality of Service". Below the heading, there is a note: "First, assign total downstream and upstream that you applied from ISP. Second, set up the specific ip address/ guarantee downstream, upstream and priority and display current settings in the table." There are two sections: "Enable QoS" and "Bandwidth Control".

Enable QoS: A checkbox labeled "Enable QoS" is checked. Below it, "ISP Bandwidth: Download" is set to 1024 KB/s and "Upload" is set to 1024 KB/s. "Undef IP Bandwidth: Download" is set to 512 KB/s and "Upload" is set to 128 KB/s. There are "Apply Changes" and "Reset" buttons.

Bandwidth Control: This section has an "IP Address Range:" field with two empty input boxes. "Guarantee Bandwidth: Download" has two empty input boxes for KB/s. "Priority:" is set to "High" in a dropdown menu. There are "Apply Changes" and "Reset" buttons.

Current Bandwidth Control Table:

From IP Addr	To IP Addr	Downstream (KB/s)	Upstream(KB/s)	Priority	Select
192.168.1.100	192.168.1.200	512	128	Low	<input type="checkbox"/>
192.168.1.90	192.168.1.90	1024	1024	High	<input type="checkbox"/>

At the bottom of the table, there are "Delete Selected", "Delete All", and "Reset" buttons.