123 Manual, LP-288ai V2.0 TURBO OFDM Compact outdoor radio with throughput booster. INSTALLATION IN POINT TO POINT, POINT TO MULTI-POINT MODE. FIRMWARE V2.0.2B5P1

LP288aiV22B5\_M123\_END01W



123 Manual, LP-288ai V2.0 TURBO OFDM Compact outdoor radio with throughput booster. INSTALLATION IN POINT TO POINT, POINT TO MULTI-POINT MODE. FIRMWARE V2.0.2B5P1



**IMPORTANT INFORMATION:** For the LP-288ai equipment with firmware (V2.0.2B5P1), it is only possible to connect equipment with this firmware. If you want to interconnect other equipment different from the LP-288ai V2.0 AP with firmware (V2.0.2B5P1), you shall change the firmware for the V2.0.3B2P1 or V2.0.3B5P0T2E1 version.

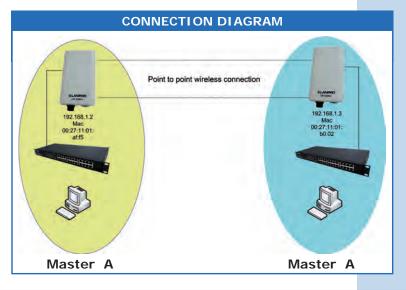
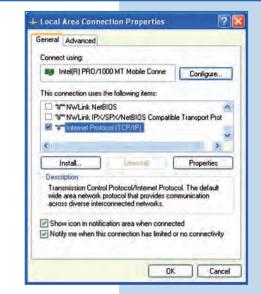


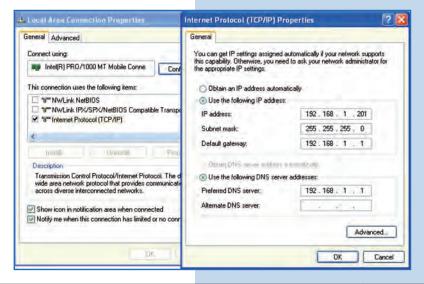
Figure 1

Go to the properties of your network card and select **Internet Protocol (TCP/IP)** and then **Properties**, as shown in **Figure 1**.



2

Select **Use the following IP address** and type an IP address in the LP-288ai V2.0 IP range by default; for this example we have selected the 192.168.1.201 address. The LP-288ai V2.0 has the 192.168.1.2 address by default. In **Subnet mask** type 255.255.255, as shown in **Figure 2**. Once you have finished, select **OK** twice.



For this configuration you will need the MAC Addresses of the equipment, which you are going to use for point to point connection. You will also use two different IP addresses in the range for their management.

In order to verify the MAC Addresses you shall access each LP-288ai and check it en **System Status** window. To do so:

**a**. Prepare the cable with the connector, as shown in **Figures 3a-1**, **3a-2**, and **3a-3**.









Figure 3a-2

Figure 3a-3

**b**. Connect the cable as shown in **Figure 3b**.

Figure 3b

c. Connect the POE as shown in Figure 3c.







 d. Connect your PC or switch to the LP-288ai POE, as shown in Figure 3d.



Figure 3d

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



Figure 3e

**f**. Open the web browser of your preference and type the default address **192.168.1.2**, as shown in **Figure 3d**.

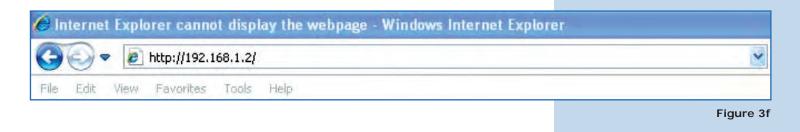


Figure 3g

g. The equipment will request a user and a password. The LP-288ai has two user levels, one with all the privileges, which is super by default with super as password, and another one with fewer privileges with admin as user and admin as password. Type super in user and password and select OK, as shown in Figure 3e.

onnect to 192.	168.1.2	?
<b>R</b>		
The server 192. and password.	168.1.2 at Secure Realm requ	uires a username
	erver is requesting that your unit in an insecure manner (basi connection).	
instruction of pocord		
User name:	🖸 super	-
		-

 h. In the initial window (System Status), take note of the MAC Address of the first equipment, as shown in Figure 3f. Repeat this procedure with the second LP-288ai (From step a to h).

<b>us)</b> , take	Favorites Chttp://192.168.1.2	
ment, as	SLANPRO	Status ->System Status Reboot
e with the	Basic Site Survey Administration HTTP Server IP Configuration Operation Mode Remote AP List	Panel Uptime: Day 0, 0:19:40 Device Name: Admin Admin user Name: admin IP Mode: Static IP Mode IP Address: 192.166.1.2 Subnet Mask: 255.255.0 Gateway Address: 0.0.0.0
	Statistics SNTP Setting Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter SIMIP Configuration	SSID: Wireless Wireless Mode: 11a Radio Data Rata: best Radio Frequency: 5260 HHz (Channel 52) Radio Channel Widti: 20HHz Operation Mode: Access Point Radio Power: 20 dBm
Figure 3f	Miscellaneous Qos Setting Vian Setting System Log Pair Connection	Security Method: None System MAC Address: 00:27:11:01:af:f5
	Status System Štatus Association Status MAC Learning Table	Association Status; Up
	<b>Super user</b> Super User Firmware Upgrade Firmware Version	

# Master A

Reconnect the first equipment and proceed to access it. To do so, open the web browser of your preference and type the default address **192.168.1.2**, as shown in **Figure 4**.

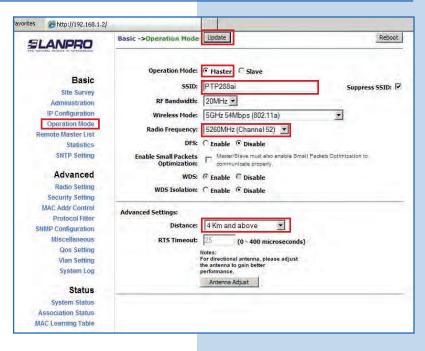
-	-	_				
G	0.	2	http://192.1	168.1.2/		~
File	Edit	View	Favorites	Tools	Help	

5

Select Basic/Operation Mode and then Master in Operation Mode. Enter the network name in the SSID field and select the channel in Radio Frequency field, which will depend on the existing links and/or interferences (See Appendix 1). Additionally, we recommend you to adjust the distance in Distance option (See Appendix 2). Select Update, as shown in Figure 5.

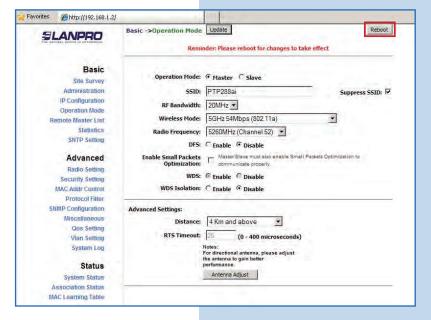
Figure 5

Figure 6



6

The equipment will save the changes, but they won't be effective unless you reboot the equipment. To do so, select **Reboot** as shown in **Figure 6**.







You can see on the screen the process of rebooting. Wait for the equipment to finish, as shown in Figure 7.

wn in		
	Basic Site Survey Administration	REBOOTING
	IP Configuration Operation Mode	
	Remote Master List	
	Statistics	If the browser fails to auto-redirect, please use the left navigator
	SNTP Setting	
igure 7	Advanced	
guior	Radio Setting	
	Security Setting	
	MAC Addr Control	
	Protocol Fifter	
	SNMP Configuration	
	Miscellaneous	
	Qos Setting	
	Vlan Setting System Log	

#### 8

9

Proceed to add the MAC Address of the Master B equipment (the second LP-288ai) in **Basic/Remote Master List**. To do so, select **Remote Master List**, add the **MAC Address** of the equipment B in MAC Address field and enter the point to point links priority (we recommend priority 1). Select **Add/Update**, as shown in **Figure 8**.

SLANPRO	Basic ->Re	emote Master List		
The variable benefit in the restriction		Address: 00:27:11:01:60:02 Priority: 1	(00:00:00:00:00:00) (1 - 512)	Add/Update
Site Survey Administration	Index	Master MAC Address	Priority	1
IP Configuration	and as			
Operation Mode	Notes:			
Remote Master List		Wireless Bridge mode, the Remote (		
Statistics SNTP Setting				
		er wireless bridges. Only the first 8 M	Masters will be used and 00:0	00:00:00:00:00 MAC ad
	Masters or oth ignored.	er wireless bridges. Only the first 8 h	Masters will be used and 00:0	10:00:00:00:00 MAC ad
of the bid with the	ignored. On Slave or Re Slave will assoc	epeater mode, the Remote Master Lis clate with. The priority value determi	st represents the MAC addre	sses of the Masters who lave will associate with
SNTP Setting	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lis	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced Radio Setting	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced Radio Setting Security Setting	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced Radio Setting Security Setting MAC Addr Control	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter SNMP Configuration	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with
SNTP Setting Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter SNMP Configuration Miscellaneous	ignored. On Slave or Re Slave will assoc Masters, Enter	epeater mode, the Remote Master Lic cate with. The priority value determi ing 00:00:00:00:00 will let the Sla	st represents the MAC addre nes the order by which the S ave associate with any Maste	sses of the Masters who lave will associate with

Select **Reboot** to apply the changes, as shown in **Figure 9**.

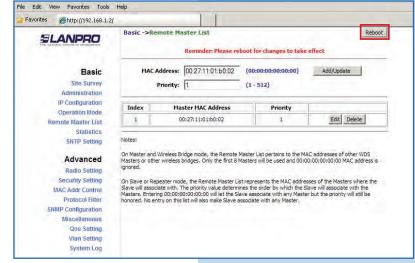


Figure 8



You can see the process of rebooting on the screen. Wait for the equipment to finish, as shown in Figure 10.

screen.	🙀 Favorites 🏾 🍎 http://192.168.1.2/	
wn in		
	Basic	
	Site Survey	
	Administration	REBOOTING
	IP Configuration	REBOUTING
	Operation Mode	
	Remote Master List	
	Statistics	If the browser fails to auto-redirect, please use the left navigator
	SNTP Setting	
ure 10	Advanced	
	Radio Setting	
	Security Setting	
	MAC Addr Control	
	Protocol Filter	
	SNMP Configuration	
	Miscellaneous	
	Qos Setting	
	Vlan Setting	
	System Log	

### 11

Select **Advanced/Security Setting** and in **Security Mode** select the **WEP** encryption mode, as shown in **Figure 11**. It is important to mention that in Point to point, Point to Multi-point ((PtP/PtmP) mode, *this is the only security mode permitted.* 



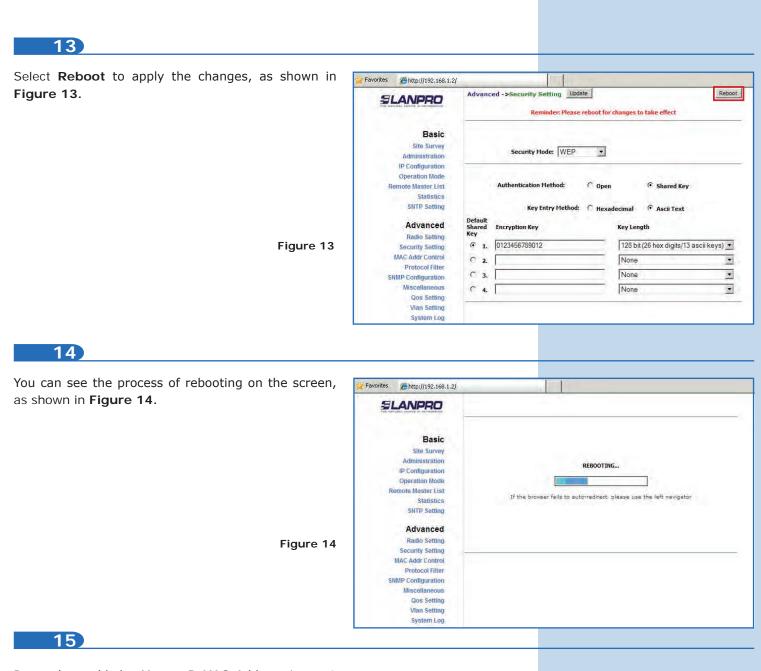
12

Select the authentication method, which is **Shared Key** for this example. Select the key entry method, in this case **Ascii Text**, enable Key **1**, type it in **Encryption Key**, and select its length in **Key Length** (128 bit). Select **Update** to save changes, as shown in **Figure 12**.

SLANPRO	Advanced ->Security Setting Update	Rebo
Basic Site Survey	Security Mode: WEP	•
Administration IP Configuration Operation Mode	Authentication Method: C 0	© Shared Key
<b>Remote Master List</b>	Key Entry Method: C H	exadecimal 👎 Ascii Text
Statistics SNTP Setting	Default	
	Shared Encryption Key Key	Key Length
shirt ustally		
Advanced	1. 0123456789012	128 bit (26 hex digits/13 ascii keys) 💌
Advanced Radio Setting	<ul> <li>0123456789012</li> </ul>	
Advanced Radio Setting Security Setting	•         1.         0123456789012           •         2.	None
Advanced Radio Setting	<ul> <li>0123456789012</li> </ul>	

Figure 12

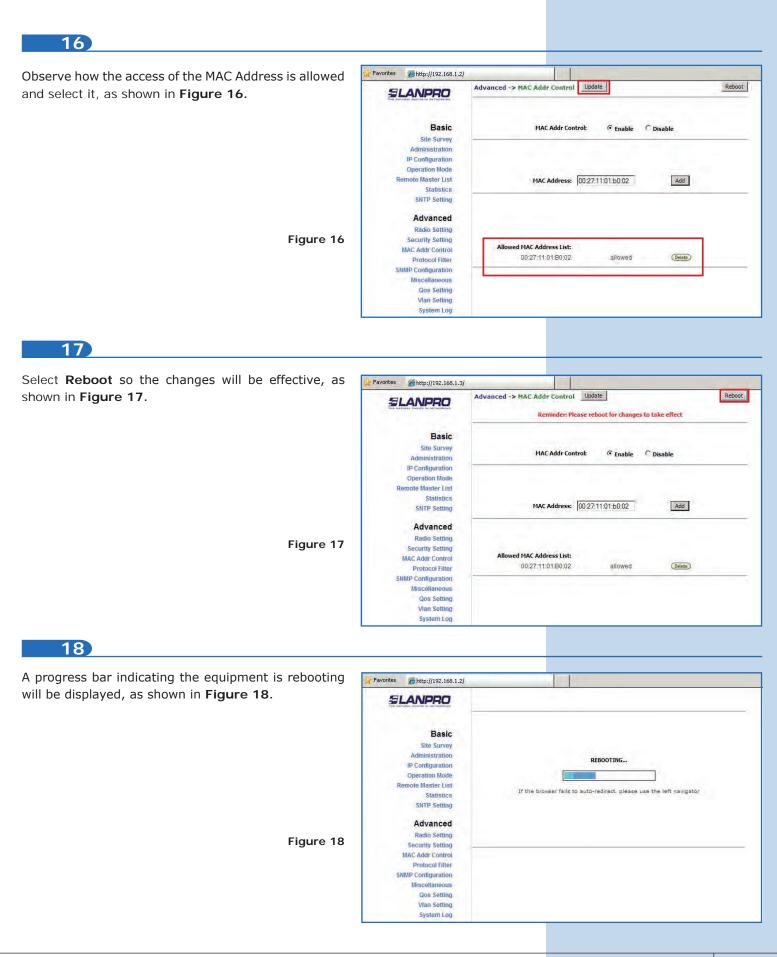


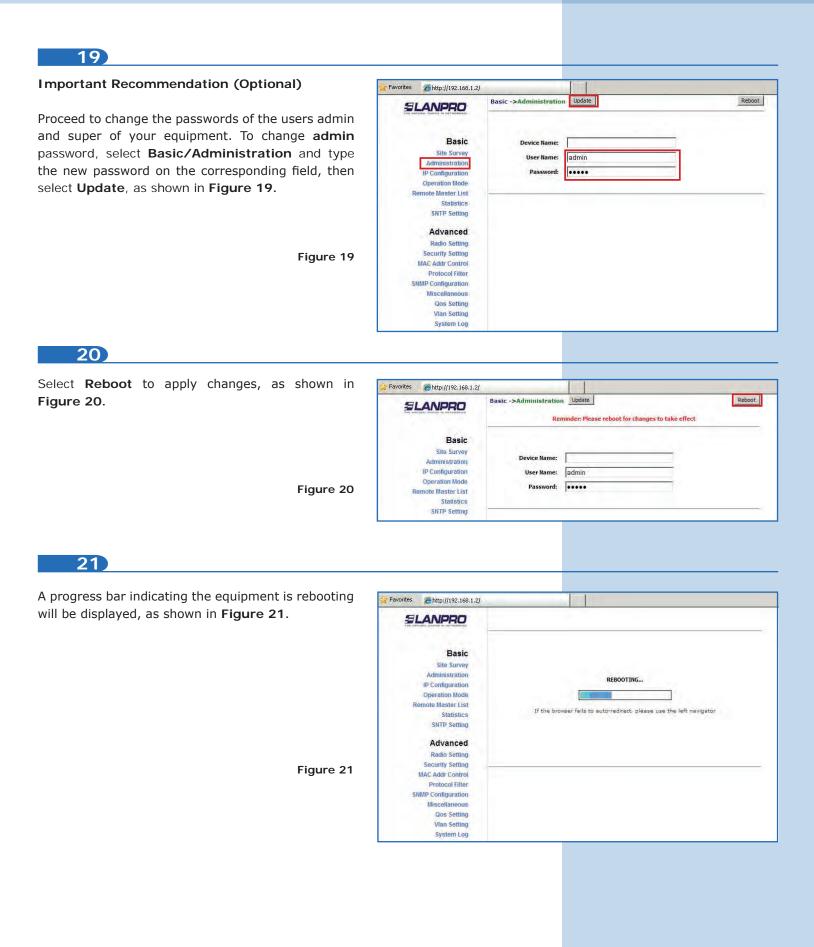


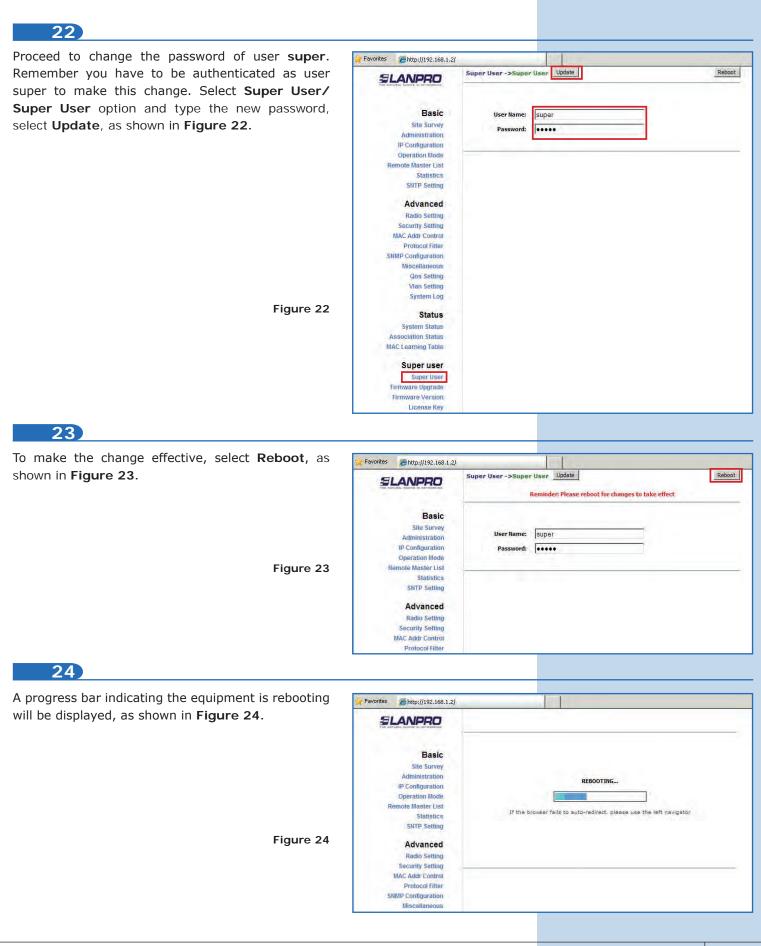
Proceed to add the Master B MAC Address in **MAC Addr Control** to limit the connection to this equipment only by the LP-288aiB. Select **MAC Addr Control** and check **Enable**, add the equipment B MAC Address and select **Add**, as shown in **Figure 15**.

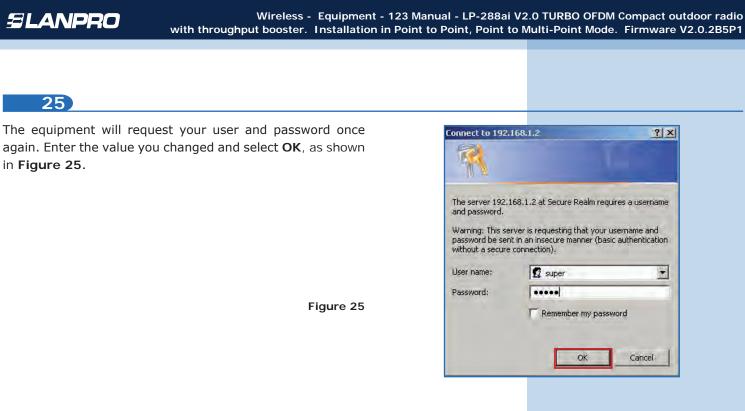
Favorites	<i>it</i> http://192.168.1.2		
	ANPRO	Advanced -> MAC Addr Control Update	Reboot
	Basic Site Survey	MAC Addr Control: C Enable C Disable	
Re	Administration IP Configuration Operation Mode emote Master List Statistics	MAC Address: 00:27:11:01:b0:02	]
	SNTP Setting Advanced Radio Setting Security Setting	Allowed HAC Address List:	
	MAC Addr Control Protocol Filter IMP Configuration Miscellaneous		
	Qos Setting Vlan Setting System Log		











# Master **B**

Proceed to connect the second LP-288ai and access it. To do so, open the web browser of your preference and type the default address **192.168.1.2**, as shown in Figure 26. Remember that **Master A** must be on.



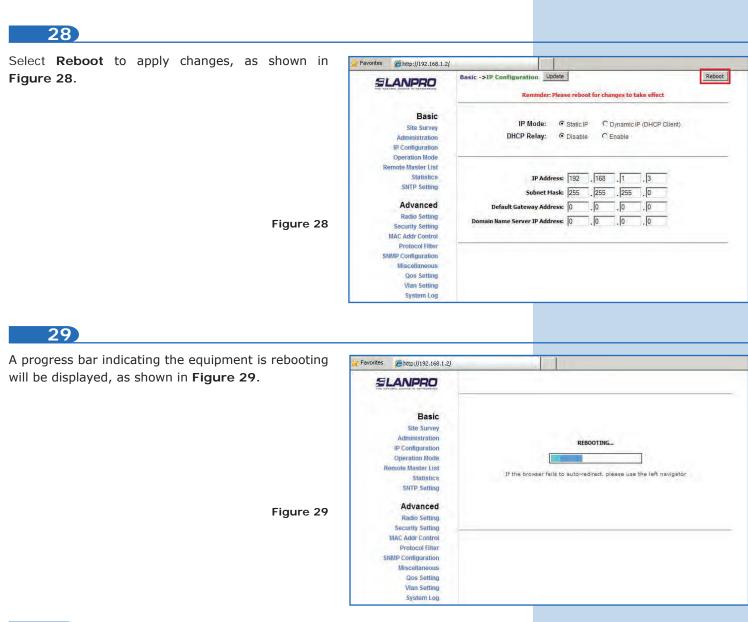
27

26

Change the Master B IP, which is 192.168.1.3 according to the diagram. Select **Basic/IP Configuration**, and in **IP Address** box enter 192.168.1.3. Select **Update**, as shown in **Figure 27**.

	Basic ->IP Configuration	
	IP Mode: Static IP C Dynamic IP (D	HCP Client)
Basic	DHCP Relay:  O Disable O Enable	
Site Survey	and the second second	
Administration IP Configuration	-	
Operation Mode		
Remote Master List	A STATE OF A	3
Statistics	Subnet Mask: 255 . 255 . 255 .	0
SNTP Setting	Default Gateway Address: 0 , 0 . 0 .	0
Advanced	Domain Name Server IP Address: 0 .0 .0 .	0
Radio Setting		
Security Setting		
MAC Addr Control		
Protocol Filter		
SNMP Configuration		
Miscellaneous		
Qos Setting Vian Setting		
System Log		





Open the web browser of your preference and type the default address **192.168.1.3**, as shown in **Figure 30**.





The equipment will request your user and password once again. Enter the value you changed and select OK, as shown in **Figure 31**.

1		
The cerver 102 1	68.1.3 at Secure Realm req	uiroc a licerna
and password.	oo,1,3 at seture Kealin req	uires a userria
Warning: This ser	ver is requesting that your	username and
password be sent	t in an insecure manner (ba:	
without a secure	connection).	
without a secure	connection).	
	1	

## 32

Select Basic/Operation Mode and then Master in Operation Mode. Enter the network name in the SSID field and select the channel in Radio Frequency field. Select Update, as shown in Figure 32. (Remember these values must be the same in Master A).

Figure 32

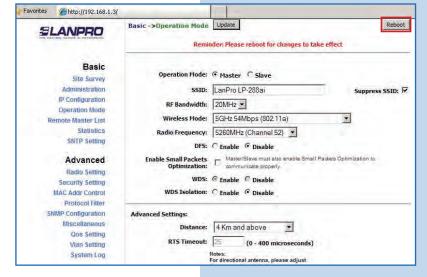
Figure 33

Figure 31



### 33

The equipment will save the changes, but they won't be effective unless you reboot the equipment. To do so, select **Reboot** as shown in **Figure 33**.



A progress bar indicating the equipment is rebooting will be displayed. Wait until the process is finished, as shown in **Figure 34**.

S SLANPRO	
Basic	
Site Survey	
Administration	Charlos and Charles
IP Configuration	REBOOTING
Operation Mode	
Remote Master List	
Statistics	If the browser fails to auto-redirect, please use the left navigator
SNTP Setting	
Advanced	
Radio Setting	
Security Setting	
MAC Addr Control	
Protocol Filter	
SNMP Configuration	
Miscellaneous	

# 35

Proceed to add the MAC Address of the Master A equipment in **Remote Master List**. To do so, select **Basic/Remote Master List**, add the MAC Address of the equipment A in **MAC Address** field and enter the point to point links priority (we recommend priority 1). Select **Add/Update**, as shown in **Figure 35**.

Figure 35

Favorites	@http://192.168.1.3	3/
51	LANPRO	Basic ->Remote Master List Reboo
1100 144	Basic	MAC Address:         00:27:11:01:aff5         (00:00:00:00:00:00)         Add/Update           Priority:         1         (1 - 512)
	Site Survey Administration	Index Master MAC Address Priority
	IP Configuration	
	Operation Mode	Notes:
R	emote Master List	On Master and Wireless Bridge mode, the Remote Master List pertains to the MAC addresses of other WDS
	Statistics	Masters or other wireless bridges. Only the first 8 Masters will be used and 00:00:00:00:00:00:00 MAC address is
	SNTP Setting	Ignored.
	Advanced	On Slave or Repeater mode, the Remote Master List represents the MAC addresses of the Masters where the Slave will associate with. The priority value determines the order by which the Slave will associate with the Masters. Entering 00:000100:00:000 will the the Slave associate with any Master but the priority will still be
	Radio Setting	honored. No entry on this list will also make Slave associate with any Master,
	Security Setting	
	MAC Addr Control	
	Protocol Filter	
SI	NMP Configuration	
	Miscellaneous	
	Qos Setting	
	Vlan Setting	
	System Log	

# 36

Select **Reboot** to apply the changes, as shown in **Figure 36**.

		Basic ->R	emote Ma	ster List Reminder: Please re	eboot fo	or changes to take	_	ebo
	Basic Site Survey Administration	MAC	Address: Priority:	00:27:11:01:af.f5	(00:0 (1-:	00:00:00:00:00) 512)	Add/Update	
	IP Configuration	Index	Mas	ster MAC Address	T	Priority		
	Operation Mode Remote Master List	1	0	0:27:11:01:af:f5		1	Edit Delete	
	SNTP Setting	Notes:						
	Advanced	Ön Master an					C addresses of other WDS 0:00:00:00:00 MAC addres	
igure 36		On Master an Masters or ot ignored. On Slave or R Slave will asso Masters. Ente	her wireless b epeater mod ociate with. T ering 00:00:0	oridges. Only the first 8 e, the Remote Master L he priority value determ	Masters list repre- nines the ilave asso	will be used and 00:00 sents the MAC addres order by which the Sk bciate with any Master		the
gure 36	Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter SNMP Configuration	On Master an Masters or ot ignored. On Slave or R Slave will asso Masters. Ente	her wireless b epeater mod ociate with. T ering 00:00:0	oridges. Only the first 8 e, the Remote Master L he priority value detern 0:00:00:00 will let the S	Masters list repre- nines the ilave asso	will be used and 00:00 sents the MAC addres order by which the Sk bciate with any Master	0:00:00:00:00 MAC addres uses of the Masters where ave will associate with the	the
gure 36	Advanced Radio Setting Security Setting MAC Addr Control Protocol Filter	On Master an Masters or ot ignored. On Slave or R Slave will asso Masters. Ente	her wireless b epeater mod ociate with. T ering 00:00:0	oridges. Only the first 8 e, the Remote Master L he priority value detern 0:00:00:00 will let the S	Masters list repre- nines the ilave asso	will be used and 00:00 sents the MAC addres order by which the Sk bciate with any Master	0:00:00:00:00 MAC addres uses of the Masters where ave will associate with the	the

_	

A progress bar indicating the equipment is rebooting will be displayed. Wait until the process is finished, as shown in **Figure 37**.

ed, as	SLANPRO	
	THE NATURAL CHEER IN BETREVENING	
	Basic	
	Site Survey	
	Administration	Contraction -
	IP Configuration	REBOOTING
	Operation Mode	
	Remote Master List	
	Statistics	If the browser fails to auto-redirect, please use the left navigator
	SNTP Setting	
ure 37	Advanced	
,ui o o /	Radio Setting	
	Security Setting	
	MAC Addr Control	
	Protocol Filter	
	SNMP Configuration	
	Miscellaneous	

# 38

Select **Advanced/Security Setting** and in **Security Mode** select the **WEP** encryption mode, as shown in **Figure 38.** It is important to mention that in Point to point, Point to Multi-point (PtP/PtmP) mode, *this is the only security mode permitted.* 

Figure 38

Figure 39

SLANPRO	Advanced -> Security Settin	Update	Reboot
Basic	Security Mode:	Disabled 💌	
Site Survey		Disabled	
Administration		WEP WPA_PSK	
IP Configuration		WPA	
Operation Mode		WPA2_PSK	
Remote Master List		WPA2	
Statistics SNTP Setting			
SHIP Setting			
Advanced			
Radio Setting			
Security Setting			
MAC Addr Control			
Protocol Filter			
SNMP Configuration			
Miscellaneous			
Qos Setting			
Vian Setting			

# 39

Select the authentication method, which is **Shared Key** for this example. Select the key entry method, in this case **Ascii Text**, enable Key **1**, type it in **Encryption Key**, and select its length in **Key Length** (128 bit). Select **Update** to save changes, as shown in **Figure 39**. (Remember these values must be the same in Master A)

SLANPRO	Advanced ->Security Setting Update	Reboo
Basic Site Survey	Security Mode: WEP 💌	
Administration IP Configuration Operation Mode Remote Master List Statistics SNTP Setting	Authentication Method: C Ope Key Entry Method: C Hex Default Shared Encryption Key	adecimal C Ascii Text
Advanced	Key  1. 0123456789012	128 bit (26 hex digits/13 ascii keys) 🔻
Radio Setting Security Setting	C 2.	None
MAC Addr Control	C 3.	None
Protocol Filter SNMP Configuration Miscellaneous Qos Setting Vian Setting	с 4 [	None



Once you have saved the changes, select **Reboot** to make them effective, as shown in **Figure 40**.

oot to	Favorites 6 http://192.168.1.3	f			
		Advanc	ed ->Security Setting Update Reminder: Please reboot fo		Reboo
	Basic Site Survey Administration		Security Mode: WEP		
	IP Configuration Operation Mode Remote Master List Statistics SNTP Setting		Authentication Method: C Ope	n 🕫 Shared Key adecimal 🕫 Ascii Text	
	Advanced Radio Setting	Default Shared Key	Encryption Key	Key Length	
re 40	Security Setting	· 1.	0123456789012	128 bit (26 hex digits/13 ascii key	(s) 🔻
	MAC Addr Control	C 2.		None	
	Protocol Filter SNMP Configuration	C 3.		None	-
	Miscellaneous	C 4.	í -	None	

## 41

A progress bar indicating the equipment is rebooting will be displayed. Wait until the process is finished, as shown in **Figure 41**.

Figure

Figure 42

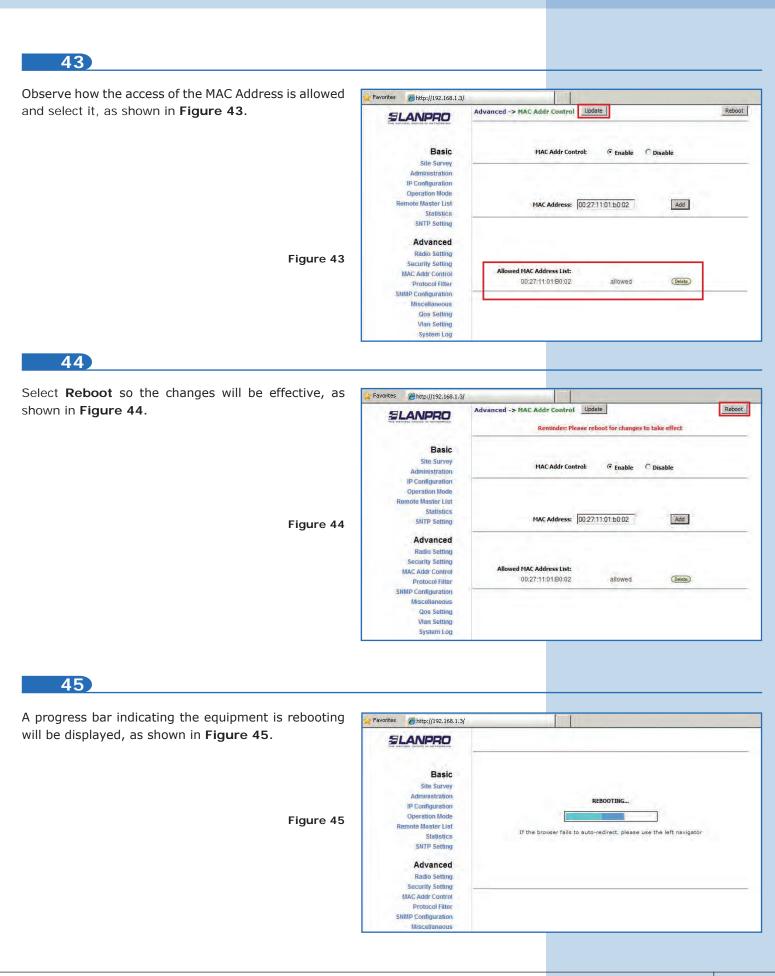
SLANPRO	
Basic Site Survey Administration	REBOOTING
IP Configuration Operation Mode	
Remote Master List	et man han an a
Statistics	If the browser fails to auto-redirect, please use the left navigator
SNTP Setting	
Advanced	
Radio Setting	
Security Setting	
MAC Addr Control	
Protocol Filter	
SNMP Configuration	
Miscellaneous	
Qos Setting	
Vian Setting System Log	

42

Proceed to add the Master A MAC Address in **MAC Addr Control** to limit the connection to this equipment only by the LP-288aiA. Select **MAC Addr Control** and check **Enable**, add the equipment A MAC Address and select **Add**, as shown in **Figure 42**.

Favorites	Attp://192.168.1.3	3/	-
SL		Advanced -> MAC Addr Control Update	Reboot
	Basic	MAC Addr Control: C Enable C Disable	
	Site Survey Administration		_
	IP Configuration		
	Operation Mode		
Re	emote Master List	MAC Address: 00:27:11:01:af:f5 Add	
	Statistics		
	SNTP Setting		
	Advanced		
	Radio Setting		
_	Security Setting	the maintain and make	
- 3	MAC Addr Control	Allowed MAC Address List:	
	Protocol Filter		
SN	IMP Configuration		
	Miscellaneous		
	Qos Setting		
	Vian Setting System Log		







#### Important Recommendation (Optional)

Proceed to change the passwords of the users admin and super of your equipment. To change **admin** password, select **Basic/Administration** and type the new password on the corresponding field, then select **Update**, as shown in **Figure 46**.

SLANPRO	Basic ->Administration Update	Reboot
Basic Site Survey Administration IP Configuration Operation Mode Remote Master List	Device Name: User Name: Password: •••••	
Statistics SNTP Setting Advanced Radio Setting Security Setting		
MAC Addr Control Protocol Filter SNMP Configuration Miscellaneous		
Qos Setting Vlan Setting System Log		

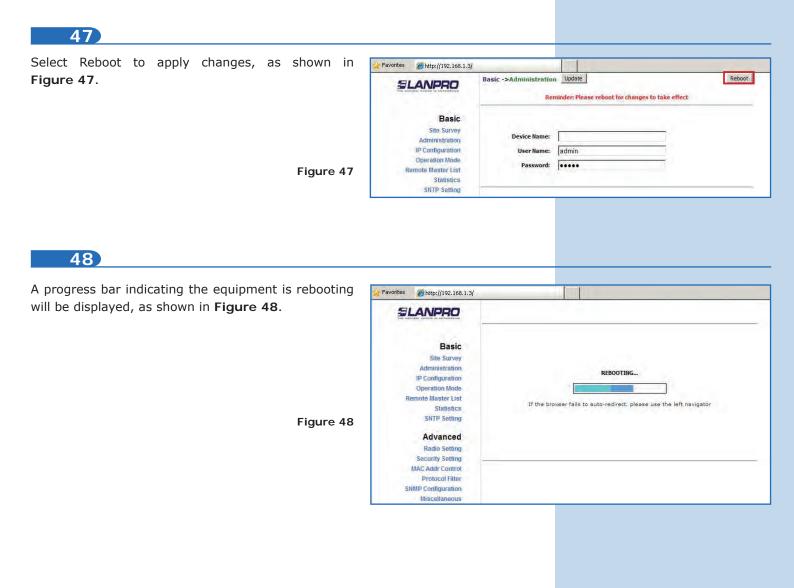
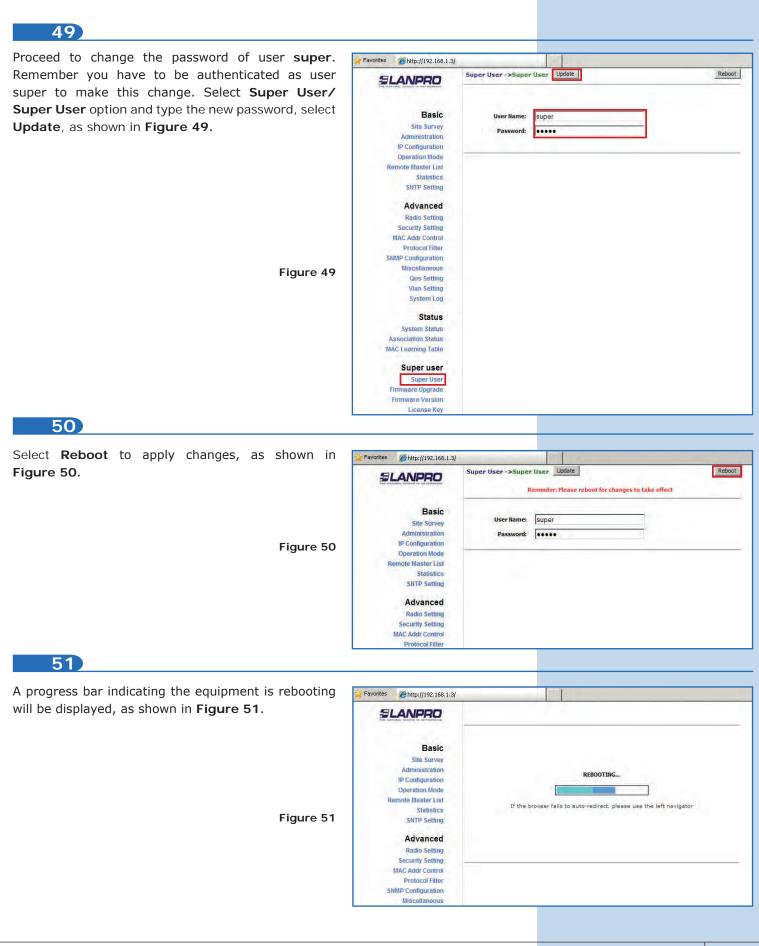
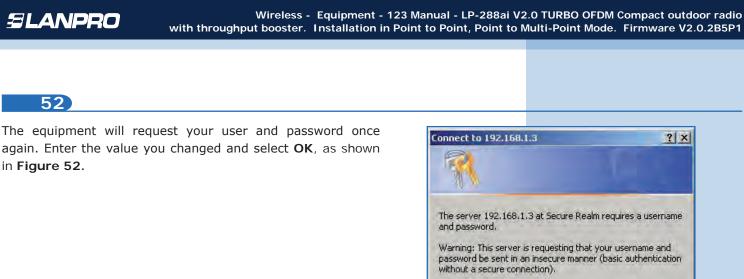


Figura 46





 The server 192,168,1.3 at Secure Realm requires a username and password.

 Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).

 User name:
 Image: Image

## 53

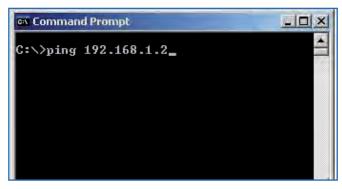
To verify the connectivity, run the Ping command in a command window against the equipment IP it is connecting, in this case 192.163.1.2. To do so, select start o inicio, select Run o ejecutar, as shown in Figures 53-1 and 53-2. Type the cmd command in the corresponding field and select OK.

1 Paint	Printers and Faxes	Run			? ×
Command Prompt	Help and Support Search	Int	pe the name of a pro ernet resource, and	ogram, folder, do Windows will ope	cument, or en it for you.
All Programs 🕨	<u>Run</u>	Open:	nd		<u> </u>
	Opens a program, folder, docur		ОК	Cancel	Browse
Start 📅 🌒 🌽 🎽	Figure 53-1	1	-		Figure 53-

54

Type the **Ping** command followed by the destination equipment IP, in this case 192.163.1.2. Press **Enter** and you will see the answer of the destination equipment, as shown in **Figures 54-1** and **54-2**.

es Command Promp



C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time=5ms TTL=64 Reply from 192.168.1.2: bytes=32 time=2ms TTL=64 Reply from 192.168.1.2: bytes=32 time=2ms TTL=64 Reply from 192.168.1.2: bytes=32 time=2ms TTL=64
Ping statistics for 192.168.1.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 2ms, Maximum = 5ms, Average = 2ms
G:>> ▼ ∢
Eiguro E.4. 2

Figure 54-1

Figure 54-2

- \* In case the equipment does not work, please verify steps 5, 8, 12, 15, 32, 35, 38, 39, and 42.
- \* The MAC Address of Master A must be registered in Master B.
- \* The MAC Address of Master B must be registered in Master A.
- \* The security and the encryption key must be the same.
- \* The channel must be the same in Master A and B.

**Appendix 1**: Consider that the correct selection of the frequency channel is a vital factor for your wireless network performance. The LP-288ai equipment operates in ISM 5 GHz frequency band and it has more frequency channels which do NOT overlap each other (because of the spacing in frequency among channels). However, there is the possibility that where you are installing your wireless network other transmission sources in the 5 GHz band exist. As a consequence, the signal of your wireless network can be interfered by other devices if they operate in the same frequency channel in the 5 GHz band. To avoid this, you can make a network survey through the **Site Survey** option and detect which frequency channels are being used in the site. The idea is to select or configure your LP-288ai in the frequency channel that you see clear or not used. In the unlikely event that all the channels are busy, it is recommended to use the frequency channel which transmission power is the lowest in the site.

**Appendix 2**: In **Operation Mode** page, **Advanced Settings**, there are several options for the **Distance** parameter. This one allows the user to select the approximate distance between the *AP* device and the *Slave* device (or between *AP* devices). In case you select the proper distance, the LP-288ai will handle the latency on a long distance path. This allows reducing the error rate and increasing the transmission speed.

#### IMPORTANT INFORMATION:

For this V2.0.2.B5P1 firmware version, the equipment can only be LP-288ai of this firmware version. If you want to interconnect another type of Mercury equipment or other 288ai of other firmware versions, you shall change the equipment firmware for the version V2.0.3B2P1 or version V2.0.3BP0T2E1.