LP-349 123 Manual in PTP and MTP Mode.

LP349_M123_ENF01W



LP-349 123 Manual in PTP and MTP Mode.

The following Instruction Manual will guide you on how to configure the LP-349 in PTP and MTP Mode.

1

We recommend you to first draw a detailed diagram of your equipment configuration. We have developed a typical diagram shown in figure 1 where three (3) equipment will be configured in a Multi-Point configuration and that will serve as a guide for you to setup yours. We remind you that each one of the equipment has a unique MAC address which you will need in the setup.

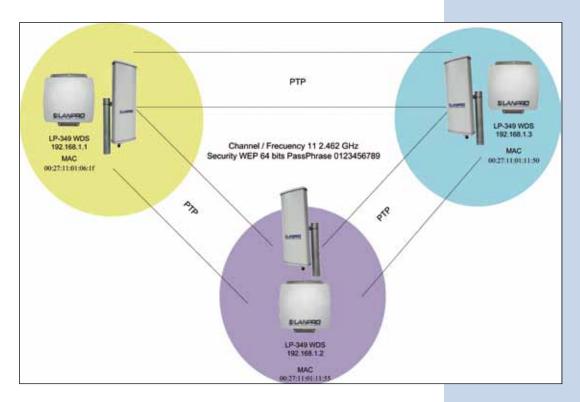


Figure 1

2

Once the Setup 123 Manual has been executed, proceed to configure it by first connecting the UTP cable that comes from the LP-349 to the **To Odu** port of the PoE Injector furnished with the radio as shown in figure 2.



Figure 2



Connect an UTP cable from the **To Ethernet** port of the PoE injector to the Switch or PC as shown in figure 3.



Figure 3

4

6

Connect electric power to the PoE injector as shown in figure 4.





5

Please go to your network card properties window and select: **Internet Protocol**, then select: **Properties**, as shown in figure 5.

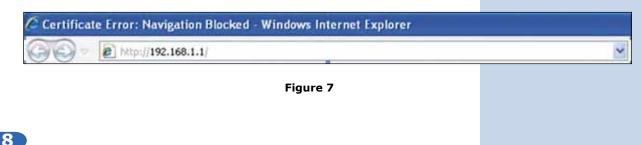
eneral Advanced		
Connect using:		
Intel(R) PR0/100	0 MT Mobile Conne	Configure
This connection uses the	e following items:	
S** NWLink NetBI	Contractor and a second state of the	^
NWLink IPX/S	and an international statements of the second	ible Transport Prot
M Tintemet Protoco	ol (TCP/IP)	~
<		>
Instal	Uninstal	Properties
Description		
Transmission Control I wide area network pro across diverse interco	stocol that provides o	
		ected
Show icon in notifical	tion atea when conn	a state of the second
Show icon in notificat		for no connectivity
		f or no connectivity

In the window shown in figure 6, select: **Use the following IP address** and input an IP address in the range of IP set by default of the LP-349. In this example, we have selected address: 192.168.1.201, the LP-349 has a default address of 192.168.1.1, input 255,255,255,0 in: **Subnet Mask**, in: **Default gateway** input the destination router address, in: **Preferred DNS Server** you must input the **DNS** address of your service provider or the IP address of your destination router, the one that provides the Internet Service, this is will route any corresponding queries to the router of the destination network.

Lucal Area Connection Properties	Internet Protocol (TCP/IP) F	Properties
leneral Advanced	General	
Connect using ImplicitedRi/PRO/1000 MIT Mobile Conne Cont This connection uses the following items:	this capability. Othermine, you no the appropriate IP sattings.	d automatically if your network supports end to ask your network administrator for
V" Notes Netlos	 Obtain an IP address autor O Use the following IP address 	162.08
Im Multike IPO/SPK-MeetBIOS Compatible Transp Im Transp Im Transp Im Transp Imma Imma	IP addeess: Subret mark: Default gateway:	192.168.1.201 295.295.295.0 192.168.1.1
Description Transmission Control Protocol/Internet Protocol. The d	Chron 2005 serves address	
Show icon in notification area when connected Thothy me when this convection has limited	Preferred DNS server: Alternate DNS server:	192 . 168 . 1 . 1
2491 - 17		Advanced.
()	1	DK. Caro

Figure 5

Please open your preferred browser and input the default address: 192.168.1.1, please see figure 7.



In the certificate validation window shown in figure 7, please accept by selecting: **Continue to this website (not recommended)**.

90.	http://192.168.1.1/	👻 😚 🗙 📴 ling
Favorites	Certificate Error: Navigation Blocked	0 • 0 · 0
8	There is a problem with this website's security certifi	cate.
	The security certificate presented by this website was not issued by The security certificate presented by this website was issued for a di	사업 것 같은 것을 것 같아요. 그는 것에 집에 가장 것 것 것 같은 것 같아요. 집에 집에 가지?
	Security certificate problems may indicate an attempt to fool you or server.	intercept any data you send to the
	We recommend that you close this webpage and do not conti	nue to this website.
	Ø Click here to dose this webpage.	
<	Continue to this website (not recommended).	
	More information	

Figure 8

9

In the window shown in figure 9, input the word **admin** in: **Name** and the word: **password** in: **Password** and then select: **Login now**.

	802.11g 54Mbps
Name	High Speed Access Point
Password	••••••

In the window shown in figure 10, in the menu: **Wireless Setup**, proceed to select: **Basic Settings**, in: **Operation Mode**, select: **Wireless Bridge** and select: **Apply**, remember to verify the operating frequency of all of the equipment set.

a Firewall Settings a Virtual Server a Lood Balence Wireless Setup » Base: Settings		
#HTTP Redirect		
RADUS Sattings		(and the second s
#IP Settings		Appy Carce
a Statiatica System Betup aliant: Settings	Station Mode Flow Control Costol to AP Upliek Tossif Livet (1 1987)	Excess Creases
h Connectors	Dubud Power	M
Status	Data Male	Best .
802.11g G4Mbps Tyl Towel Aliest Part (= Lopost)	Wireless LAN Settings Operating Name Winness Block Channel (Fragane)	Autority The C
802 110	Wireless LAN	

Figure 10

11)

In the window shown in figure 11, in the menu: **Wireless setup**, proceed to select: **WDS Settings**, input in: **Remote Mac Address** the MAC addresses of the destination equipment shown in figure 1. It is important to input the MAC addresses in a correct way because any error will impede the communication between them. Once finished, select: **Apply**.

[= Logout]	· Input Remote AP MAC Address Barunity
Planta a	Local MAC Address [00 27 11 01 06 17
Status	Remote MAC Address 1 420 27 11 01 11 12
a Connections	Uptink Speed Limit 1 (1-1587) 1497 × 64kbps = 105.437585pp
a Statistics	
a stansoca	Hamote MAC Address 2 (05 27 11 01 11 50
System Setup	Uptinit Speed Limit 2 (1-1687) 1457 + 64X3ps + 105.437583bps
Basic Settings	Remite SAC Address 3
#IP Settings	Apres Speed Line 3 (1-1587) 1637 + 54kbps + 105.437588ps
# RADIUS Settings	Remote MAC Address 4
a HTTP Redirect	Uptink Speed Limit 4 (1-1587) 1467 + 54kbps + 105.437588pps
a Firewall Settings	Rends MAC Address t
Virtual Server	Uplink Speed Limit 5 (1-1567) 1407 + 64kbps + 105,437548bps
s Loed Balance	Remote UAC Address 6
Wireless Setup	Upper Speed Limit 5 (1-1587) 1487 + 64Xbps + 105,437588ps
n Basic Settings	Remote MAC Assess 7
a VAP/VLAN Settings	and an
a Access Control	Uplink Speed Limit 7 (1-1687) 1457 + 64kbps - 105.437588pps
WDS Settings	Remote MAC Address 8
and the state of the	Uplinit Speed Limit 8 (1-1587) 1687 × 54X3ps + 195.437545ps
» Advanced Settings	Smart WDS
Tools	WDS Bervice Group ID
» Site Survey	NO. Remote AP MAC Address
n Link Test	
Management	(Apply) Cancel

Figure 11

12

In the window shown in figure 12, you can establish the security of the WDS connections. To do this, in the menu:**Wireless Setup**, select: **VAP/VLAN Settings**, select: **wds_profile** and then select: **Edit**.

Status	100000000000000000000000000000000000000				
a latermation					
a Contecture	the second second second second	ins for Youx, Stations Adapter, WDS and loss	The Distribution of the New York, Street, Stre		
+ Materica		Froffis Name	LHD	Security	Entre
a la companya de la c		of Pollet	There are a second s	Date Solars	
System Setup	100000000	AP_POINT	(feature)	Taxes Bystern	
· Besk Settings	11000134	AF_Protect	Statistic .	Coren Bylateria	
a IP Settings	10000034	of Postal	This area	Career Bustments	
 BACKUS Settings 	10000004	M_Foliet	(COMPANY)	Dave Spenner .	
# HTTP Redroct	11001154	W.fullet	TOWNER.	Oper System	
a fermal Settings		W.Futut	Townes	Dave Bidmen	
a Virtual Server	24	# Point	Western	Carer Business	
a Load Balance	1 I I I I I I I I I I I I I I I I I I I	en prote	Western	Dates Hysilam	
Wireless Setup	6	add, profes			
a Basic Settings	A DECEMBER	adardanikang produc	altern 1		1
> VAPISAN Settings			East 1		
a Access Control	1		ALC: NO		

SLANPRO

13

In this example, the keys that will be used will be generated and the encryption mode will be established. In order to do this, in the window shown in figure 13, in: **Data Encryption**, select: **WEP 64 Bits**, and input a passphrase and select: **Generate Keys**. The keys will then be generated in the LP-349. Once done, we proceed to select Key number 1 and enable them by selecting: **Enable** and then: **Apply**.

Status	Security Profile for	r WDS Configuration
a Information		
# Connections	Network Authentications	Caret System (10)
a Statistice	Data Encryption	64 bits WEP
System Setup	Paraterna Rizzkietes	Jenarata Keya
Basic Settings	Nat () LINERACIAF	17-10
IP Settings	Ter 2 O SATECRATA	
RADIUS Settings	Kara C CIDINIZIER	
 HTTP Redrect 	Intel SPIELIDIE	
Firewall Settings	And Contractory	
Writiant Server		Enable C Devates
· Load Balance		
Wireless Setup		Back Appy Cancel
a VAPVLAN Settings		
» Accese Control		
a WDS Settings		

Figure 13

14

In this case , a message shown in figure 14 will be prompted indicating that the keys apply to all the security profiles, then select: \mathbf{Ok} .

Message	t from webpage	×
Z)	NOTE: All the profiles share the same set of keys(key1-key4), except the default key inderespective profiles.	

Figure 14

15

As shown in figure 1, we will proceed to connect the second LP-349 by repeating steps 7 to 14 of this manual, and taking in account the MAC addresses shown in figure 1. Remember to input the MAC addresses of all the equipment that will be communicated, additionally, you will have to change the IP Address as per the figure 1 diagram. In order to do this, please refer to figure 15, in the menu: **System Setup**, select: **IP Settings**, change the IP and select: **Apply**. The equipment will reboot and in order to access it again you will have to use this new IP. Please do this before establishing the communication between them.

Figure 15



16

We will now proceed to connect the **third** (3) LP-349 by repeating steps 7 to 14 of this manual, and taking in mind the **MAC Addresses** shown in figure 1. Remember to input the **MAC addresses** of the equipment you wish to communicate to. Additionally, you must change the IP address as per the diagram of figure 1. In order to do this, in the same window shown in figure 15, in the menu: **System Setup**, select: **IP Settings**, change the IP of the third one and select: **Apply**, the equipment will reboot and in order to be able to acces it you will have to use this new IP, do this before establishing communication between them.

Wait for 30 seconds and verify the connectivity of the equipment, you can do this by:



Sending a PIN to any of the destination equipmen involved, please see figure 17a.

Command Prompt - ping 192.168.1.1 -t	- 0
C:>>ping 192.168.1.1 -t	
Pinging 192.168.1.1 with 32 hytes of data:	
Neply from 192.168.1.1: bytes=32 time=2ns TTL-255 Neply from 192.168.1.1: bytes=32 time=1ns TTL-255 Neply from 192.168.1.1: bytes=32 time=1ns TTL-255 Neply from 192.168.1.1: bytes=32 time=1ns TTL-255 Neply from 192.168.1.1: bytes=32 time=2ns TTL-255 Neply from 192.168.1.1: bytes=32 time=1ns TTL-255 Neply	

Enter in the LP-349 and in the window shown in figure 17b, verify the option: **Connections** that the LP-349 are b connected.

connected.						
	Status Co	onnectio	ons			
	a Connections	Bridge 10	BAC Address	P Address	RS SI (dDm)	Stature
	a-Statistics	1	00:27:11:01:11:58	192.168.1.1	-18	ACTIVE
	System Setup	2	00:27:11:01:11:50	102.168.1.3	-18	ACTIVE
Figure 17 b	Basic Settings			Retesh		
ligute 17 b						
In the window shown in figure : Test and verify the status of the o		Status - Mormation - Connections - Connections - Suspence Setup - Inservice - Suspence Setup - Suspence Setup - Status - Viral Inserve - Monace Setup - Secons Central - Monace Setup	Link Test Learner Learner	11 PM Non 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in Parata in in in in in in in in in in in in in	Result Spot (and Status i Status Status
	sn't connect, verify t AC Addresses are on acryption Keys are co	correct.	ng:			
c That a	ll the equipment are	on the sa	me channel or f	requency.		

In the window shown in figure 19, proceed to change the administration password of the equipment. Even though it is not mandatory, we highly recommend that you change the administration password of your equipment, we must remind you to store it in a safe place to which you can have access in the event that you forget it. If you lose it, you must reset the equipment to factory values and lose any setup you have made. Please use for this the 123 manual on how to reset to factory values, document: **LP349_M123_ENC01W**.

In order to change the password, please select option: Change Password, located in the menu: Management as shown in the figure 19.

Figure 19

System Setup	<u> </u>
Basic Settings	Change Password
P Settings	
RADIUS Settings	Current Password
# HTTP Redirect	
Firewall Settings	New Pasaword
Virtual Server	Repeat New Password
Load Balance	Restore Default Password O Yes ONe
Wireless Setup	Apply Cancel
a Basic Settings	
a VAP/VLAN Settings	
» Access Control	
NWDS Settings	
» Advanced Settings	
Tools	
▶ Site Survey	2
a Link Test	
Management	
Change Password	

20

In the window shown in figure 20, input in: **Current Password** the old password, in: **New Password**, the new password you want to use, in the field: **Repeat New Password**, do as indicated and the select: **Apply**.

System Setup	
Basic Settings	Change Password
IP Settings	
RADIUS Settings	Current Password
HTTP Redirect	and a second sec
EFirewall Settings	New Password
Virtual Server	Repeativew Password
Load Balance	Restore Default Password O Yes O No
Wireless Setup	Apply Cancel
a Basic Settings	Contract of the second se
a VAP/VLAN Settings	
a Access Control	
n WDS Settings	
a Advanced Settings	
Tools	
⇒ Site Survey	
a Link Test	
Management	
Change Password	