

Overview

The WiFi Access Point transmits messages from the computer to the Bridge unit located near the sign. The Bridge receives the wireless message signal from the the Access Point and sends them to the sign for display.

These instructions explain how to replace an Access Point (AP) or Bridge unit connected to an Excite, RoadStar, or StreetSmart sign that is using Ooh!Media software.

Replacing the AP or Bridge unit consists of three steps:

- Step 1 Configure the AP or Bridge
- Step 2 Replace the AP or Bridge
- Step 3 Send a test message

If you need assistance during the replacement, contact Adaptive's Technical Support team at (414) 357-2020 extension 519.

Tools and equipment

The following is a guideline, specific tools and equipment shall be assessed at the installation site:

- Appropriate tools to remove and install the Access Point or Bridge units.
- Access to the computer that will be used to send messages to the sign to verify proper operation of the WiFi unit. This computer must have ooh!Media software installed on it.
- Current IP address settings of the WiFi unit being replaced.

Contents of the WiFi Replacement kit

Qty	Description
1	Wireless Access Point or Bridge unit
1	* 48V, 0.375A AC/DC adapter with wall-plug power cable
1	* Inline Power Injector (PoE)
1	* 1.8m Grounding cable
1	User's manual CD-ROM
1	* Wall mounting kit
1	* Mast mounting kit
1	* Waterproof kit
1	* 25ft CAT5 Outdoor cable
1	Replacement instructions

* Not all items in the WiFi replacement kit will be used during the replacement. Replace components that look damaged or weathered. Items not used may be kept and used as spare parts.

Step 1: Configure the AP or Bridge

Connect the hardware

- 1. Plug the Ethernet cable from the AP or Bridge unit into the AP/Bridge port of the PoE injector.
- 2. Plug an Ethernet cable from your computer or network into the **Network** port of the PoE injector.
- 3. Plug the DC-inlet of the power adapter into the **DC48V** port of the PoE injector and the other end into a power socket in the wall.

Login and configure security

Locate and write down the encryption key used during the original or previous installation so the new Access Point or Bridge can be configured.

Note:The same encryption key must be used or the two wireless units will be unable to communicate with each other and the messages will not reach the sign.

26 character encryption key:

- 1. Open a web browser, type one of the following in the Address bar, and press the ENTER key.
 - Access Point: **192.168.1.2**
 - Bridge: 192.168.1.1
- 2. At the login prompt, type admin for the Username and admin for the Password.



A screen similar to the following appears:

Access Point unit screen

Ele Ede Mari Executer Inc	MONO - MICHARDI I IMPONIO I -	opionier	
The Loc men revenues to	o nep		
Address 1 http://192.160.1.1/			*
	Wireld	ess LAN Access Point	
Management TCP/IP Settings Wireless	Access Point S	tatus status and some basic settings of the device.	
A Demonstration	System		
	Uptime	5day/22h:10m/27s	
	Firmware Version	v1.37	
	Wireless Configuration	and a set of the set o	
	Made	AP+WDS	
	Band	2.4 GHz(B+G)	
	SSID	wireless_g	
	Channel Number	11	
	Encryption	Disabled(AP), Disabled(WDS)	
	BSSID	00.02.6644.61.94	
	Associated Clients	0	
	TCP/IP Centiguration		
	Attain IP Protocol	Find IP	
	IP Address	192 168 1 1	
	Submet Mask	255 255 255 0	
	Default Gateway	0000	
	DHCP	Deabled	
	MAC Address	00.02.6f.44.51.9e	

3. Click Wireless and then click Security.



- **4.** Set the settings to the same values used for the previous Access Point or Bridge. If the 26-character encryption key was used, do the following:
 - Select WEP from the Encryption list.

This page allows you setup the wi could prevent any unauthorized ac	- reless security. Turn on WEP or WPA by using Encryption Keys ccess to your wireless network.					
Encryption: WEP	Set WEP Key					
Use 802.1 x Authentication	• WEP 64bits O WEP 128bits					
WPA Authentication Mode:	O Enterprise (RADIUS) 💿 Personal (Pre-Shared Key)					
WPA Cipher Suite:	TKIP AES					
WPA2 Cipher Suite:	TKIP AES					
Pre-Shared Key Format:	Passphrase 👻					
Pre-Shared Key:						
Enable Pre-Authentication						
Authentication RADIUS Server:	Port 1812 IP address Password					
Note: When encryption WEP is se	lected, you must set WBP key value.					
Apply Changes Res	et					

• Click the Set WEP Key button.

http://192.168.1.2 - WE Wireless W	P Key Setup - Microsoft Internet EP Key Setup	t Explorer	
This page allows you s encryption key, and se	etup the WEP key value. You could lect ASCII or Hex as the format of inp	choose use 64-bit or 128-bit as the out value.	
Key Length:	128-bit 🛩		
Key Format:	Hex (26 characters) 🔽		
Default Tx Key:	Key 1 💌		
Encryption Key 1:		Only una lattora	
Encryption Key 2:	solulais/sis/sis/sis/sis/sis/sis/sis/sis/sis/	ond numbers 0	А-г
Encryption Key 3:	soloiskisiskiskiskiskiskiskiskiskiskiskiskis	for Energy tion K	9
Encryption Key 4:		values.	ey
Apply Changes	Close Reset		
one		Internet	

- For Key Length, select **128-bit**.
- In the Encryption 1 field, type the 26-character encryption value previously used.
- 5. Click Apply Changes.
- 6. Click Close.
- 7. On the Wireless Security Setup screen, click Apply Changes.

Step 2: Replace the AP or Bridge

- 1. Disconnect the Ethernet cable from the AP or Bridge and remove the unit from the mounting hardware.
- 2. Mount the new AP or Bridge and connect the Ethernet cable.

Note: If replacing the Ethernet cable, leave a sufficient amount of slack near the cable connection point and create a "Service Loop". Refer to Adaptive's service bulletin "SB 08-0002 Excite Installation Practice Tip for Cables" at www.adaptivedisplays.com for more details.

Step 3: Send a test message

1. Start Ooh!Media.

Click Start > All Programs > Ooh!Media > Ooh!Media.



2. In the lower portion of the Ooh!Media window under Run-time Objects, click the insert new text button.



A new text message box appears in Ooh!Media.

3. Highlight the text inside the message and type an appropriate test message.



4. Extend the length of the message by stretching it in the Timeline.

Time in seconds



Extend the message long enough for you to go to the sign and look at it.

- **5.** Click the disk icon to save the message.
- 6. Name the message and click **Save**.



7. Click the send message icon to send the message to the sign.



8. Verify the message appears on the sign.

Changing the IP address for the AP, Bridge, or computer

To change the AP's or Bridge's IP address

If your network configuration requires the AP or Bridge to have a different IP address, you can do so at any time by following these instructions.

- 1. Make sure your computer is using an IP address within the 192.168.1.X range. See "To change the computer's IP address" on page 5.
- 2. Open a web browser, type one of the following in the Address bar, and press the ENTER key.
 - For an Access Point: 192.168.1.2
 - For a Bridge: **192.168.1.1**
- 3. At the login prompt, type admin for the Username and admin for the Password and click OK.
- 4. In the left menu area, click TCP/IP Settings and then click LAN Interface.
- 5. Click in the IP Address field and type in the IP address to use for the unit.

This page is used to configur LAN port of your Access Poi mask, DHCP, etc	e the parameters for local area network which connects to th nt. Here you may change the setting for IP addresss, subne
IP Address:	192.168.1.2
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
DHCP:	Disabled 💌
DHCP Client Range:	192.168.1.100 192.168.1.200 Show Client

- 6. Click Apply Changes.
- 7. Click OK.

To change the computer's IP address

1. At the computer, click the **Start** button and then **Connect To > Show All Connections**.



2. In the Network Connections window, right-click Local Area Connection and choose Properties.

3. Click Internet Protocol (TCP/IP) and then click the Properties button.

4. In the Internet Protocol (TCP/IP) Properties dialog, select Use the following IP address and enter the following:

- 5. Click OK.
- 6. In the Local Area Connection Properties dialog, click OK.

Troubleshooting

If nothing appears on the sign when you send messages from Ooh!Media, the first step is to verify there is communication with the sign. You can do this by "pinging" the sign. Ping is a tool used on computer networks to test whether devices are reachable. The goal of pinging a device is to get a reply. If there is no reply, the ping request "times out" meaning the device is unreachable. See "To ping the sign, Bridge, or Access Point" on this page for instructions.

If you can successfully ping the sign, then the WiFi devices are communicating properly.

Basic troubleshooting sequence:

To ping the sign, Bridge, or Access Point

1. The ping command is performed from within the Windows command prompt window (also referred to as the DOS window).

To open the command prompt, click the Start button and select Run.

A command window similar to the following appears.

2. Type ping followed by the IP address of the unit as in the following example.

ping 192.168.1.2

A successful ping looks similar to the following:

An unsuccessful ping looks similar to the following:

