



Topic / Issue: Access Point Configuration with Bridging Firmware- WLB2454AP-S

Written By: Scott Young

How to configure a wireless bridge using Access Points loaded with Bridging Firmware.

All Access Points in your bridge configuration will be loaded with Bridging Firmware and will be configured in Ad-Hoc Mode.

The screenshot shows the configuration interface for an 802.11g Bridge. At the top, there are navigation tabs for 'Info', 'Configuration', 'Encryption', 'Advanced', 'Admin', and 'Help'. The 'Basic Wireless' section is active, displaying the following settings:

- Wireless Network Type:** Radio buttons for 'Infrastructure' and 'Ad-hoc'. 'Ad-hoc' is selected.
- Wireless Network Name (SSID):** An empty text input field.
- Desired BSSID:** A text input field containing '0000C2156AE'.
- Channel:** A dropdown menu set to '2.4 GHz channel 1'.
- Transmission rate (Mbps):** A dropdown menu set to 'Best (automatic)'.

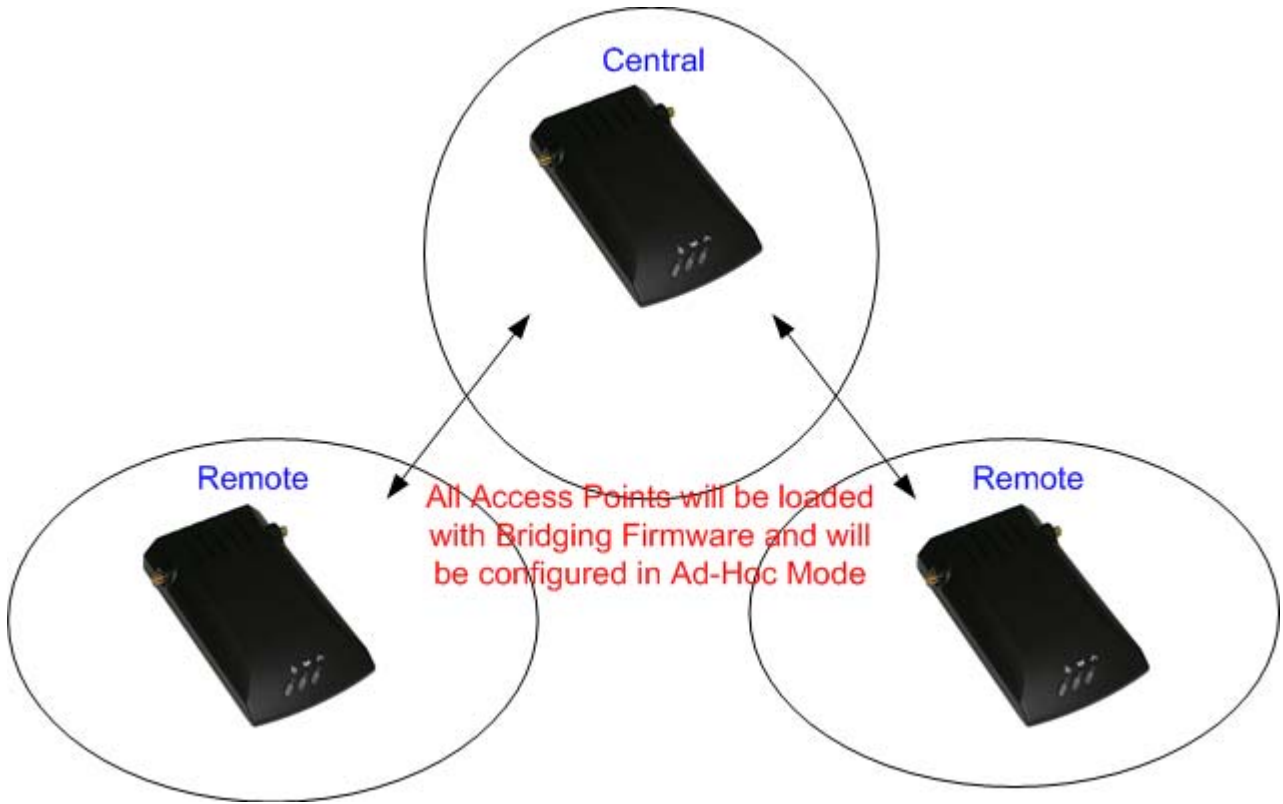
Help text for each field explains the purpose and provides instructions for configuration.

All Access Points will need to have the same wireless settings e.g. ESSID, Channel No. You also need to enter the MAC address of the connecting Access Point into the BSSID section, as shown below:

802.11g Bridge	
<div style="display: flex; justify-content: space-around;"> Info Configuration Encryption </div> <div style="display: flex; justify-content: space-around;"> Advanced Admin Help </div>	
Basic Wireless	<p>On this page you can configure the basic 802.11g wireless settings. Any new settings will not take effect until the bridge is rebooted.</p>
Wireless Network Type:	<input type="radio"/> Infrastructure <input checked="" type="radio"/> Ad-hoc Select 'Infrastructure' to connect to a wireless access point, select 'Ad-hoc' to connect to another bridge or wireless station.
Wireless Network Name (SSID):	<input type="text"/> This is the name of the wireless access point that this bridge will associate to. Leave this field blank to associate to any access point.
Desired BSSID:	<input type="text" value="00008C2156AE"/> This provides manual selection for the desired Access Point to join with. The SSID for the Access Point still has to match. You can copy and paste the desired MAC address from the info page.
Channel:	<input type="text" value="2.4 GHz channel 1"/> This is the radio channel that is used in ad-hoc mode. This setting has no effect in infrastructure mode. If you experience interference (e.g. lost connections or slow data transfers) you may need to try different channels to see which is the best.
Transmission rate (Mbits/s):	<input type="text" value="Best (automatic)"/> This is the speed at which the bridge will transmit data. Normally

Each Remote AP is Bridged to the Central AP. But the Central AP will not repeat the signal between the remote APs

This configuration is best suited to a Point to Point Bridge Configuration. It provides the best performance of all bridging modes.



Summary:
(If required)