

# ALLOY TECH ARTICLE

Date: 13/11/2007  
Revision Date (6 months max): N/A

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**Topic / Issue:** Access Point Configuration for WDS- WLB2454AP-S

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The following technical article explains how to configure multiple AP's to use WDS.

WDS enables simultaneous:

- 1) Wireless Client Access.
- 2) Bridging with other Access Points.
- 3) Repeating between Access Points.

All Access Points that you wish to use in a WDS configuration must support WDS.

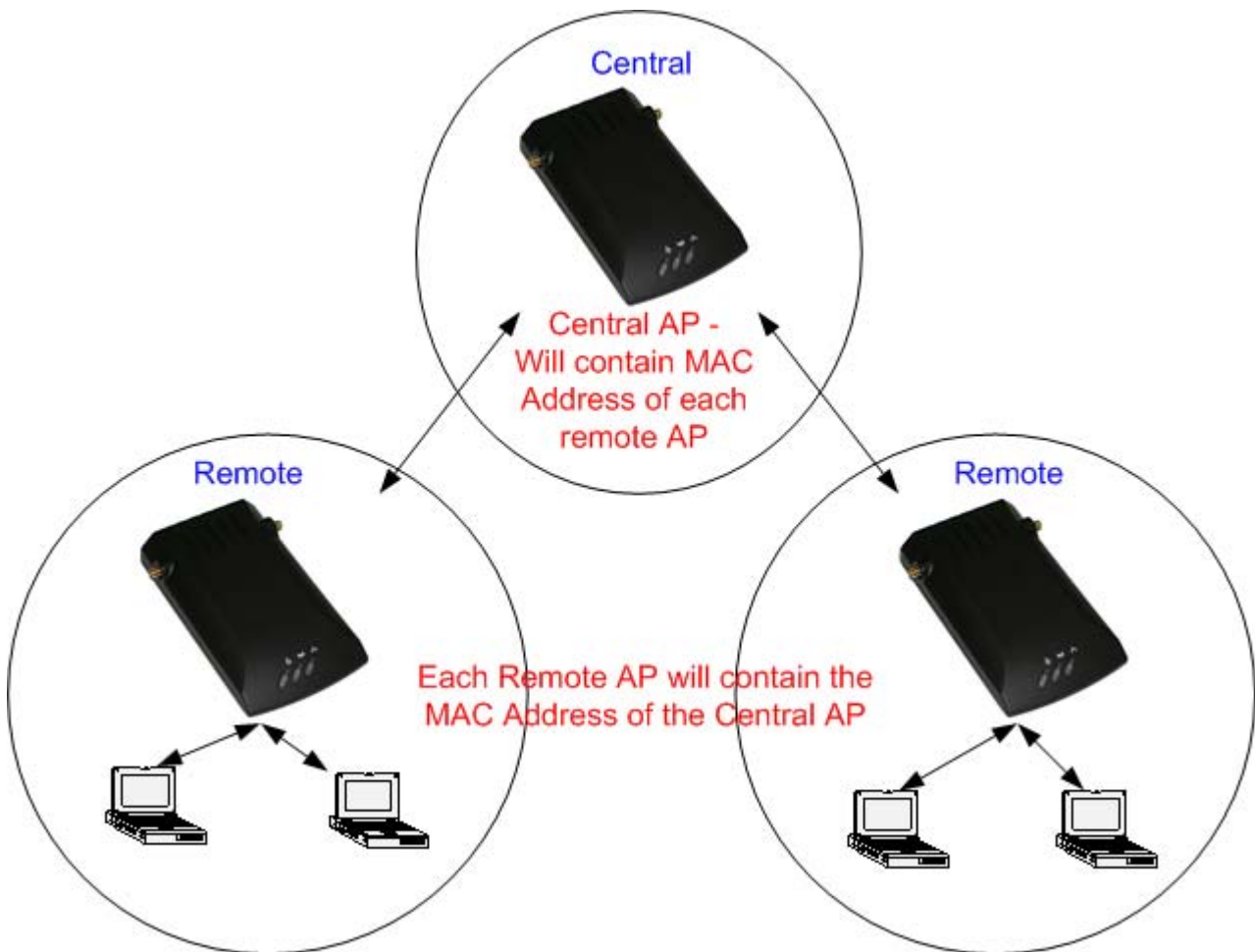
- Each Access Point in your WDS configuration must have it's own unique IP address.
  - All AP's must have the same ESSID and channel no's selected.
- WDS and WPA are mutually exclusive, meaning they can't be used at the same time.

The screenshot shows the configuration interface for an 802.11g Access Point. At the top, there are navigation tabs: Info, Assoc, Admin, Wireless, Access, Advanced, Security, IP Addr, WDS, and Help. The 'WDS' tab is currently selected. Below the tabs, there is a note: 'Basic information about this access point. NOTE: You may have to reload this page to see the current settings.' The main content area is divided into sections: 'Access Point Information' (Access Point Name: 802.11g AP, MAC address of AP: [blank], Associated stations: 0, Intersil Firmware version: 1.0.4.3, Firmware version: 5.3.B3\_031009), 'Current IP Settings' (IP address: 192.168.1.240, DHCP client: disabled), and 'Current Wireless Settings' (Profile: 802.11b/g Mixed Mode, Wireless network name (SSID): wireless1, Channel: 1, WEP: disabled, WPA: disabled). A red box highlights the 'Wireless network name (SSID): wireless1' and 'Channel: 1' fields.

Now you need to configure WDS by selecting WDS from the top menu. To Enable WDS check the Tick Box and enter the MAC Addresses of all the access points that this access point will communicate with.



Once you have enabled WDS on each access point and entered the appropriate MAC addresses your WDS configuration is complete.



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All access points with WDS enabled can now communicate with their configured AP's and any wireless clients that have the same wireless settings.

**NOTE:**

When Configuring the MAC addresses in each AP.

Ensure that you do not make a loop/ring configuration, as this will quickly bring the wireless network to a stand still.

(Do not logically connect the end points in a WDS chain)

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**Summary:**  
**(If required)**