

DAP-1150 Setup Guide – Repeater Mode

Please note: Before configuring the DAP-1150, confirm the settings of the existing router / access point. In this example, the D-Link DIR-655 is used as the primary router and DAP-1150 in repeater mode.

Product Page: DIR-655 Hardware Version: A4 Firmware Version: 1.21WW

D-Link

DIR-655 // SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET WIRELESS SETTINGS NETWORK SETTINGS USB SETTINGS English

WIRELESS

Use this section to configure the wireless settings for your D-Link Router. Please note that changes made on this section may also need to be duplicated on your Wireless Client.

Save Settings Don't Save Settings

WIRELESS NETWORK SETTINGS

Enable Wireless: Always New Schedule

Wireless Network Name: dlink655 (Also called the SSID)

802.11 Mode: 802.11g only

Enable Auto Channel Scan:

Wireless Channel: 2.437 GHz - CH 6

Transmission Rate: Best (automatic) (Mbit/s)

Visibility Status: Visible Invisible

WIRELESS SECURITY MODE

To protect your privacy you can configure wireless security features. This device supports three wireless security modes, including WEP, WPA-Personal, and WPA-Enterprise. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server.

Security Mode: WPA-Personal

WPA

Use **WPA** or **WPA2** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use **WPA2 Only** mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use **WPA2 Only** security mode (or in other words AES cipher).

WPA Mode: WPA2 Only

Cipher Type: TKIP

Group Key Update Interval: 3600 (seconds)

PRE-SHARED KEY

Enter an 8- to 63-character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key:

Helpful Hints...

Changing your Wireless Network Name is the first step in securing your wireless network. Change it to a familiar name that does not contain any personal information.

Enable Auto Channel Scan the router can select the best possible channel for your wireless network to operate on.

Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they scan to see what's available. For your wireless devices to connect to your router, you will need to manually enter the Wireless Network Name on each device.

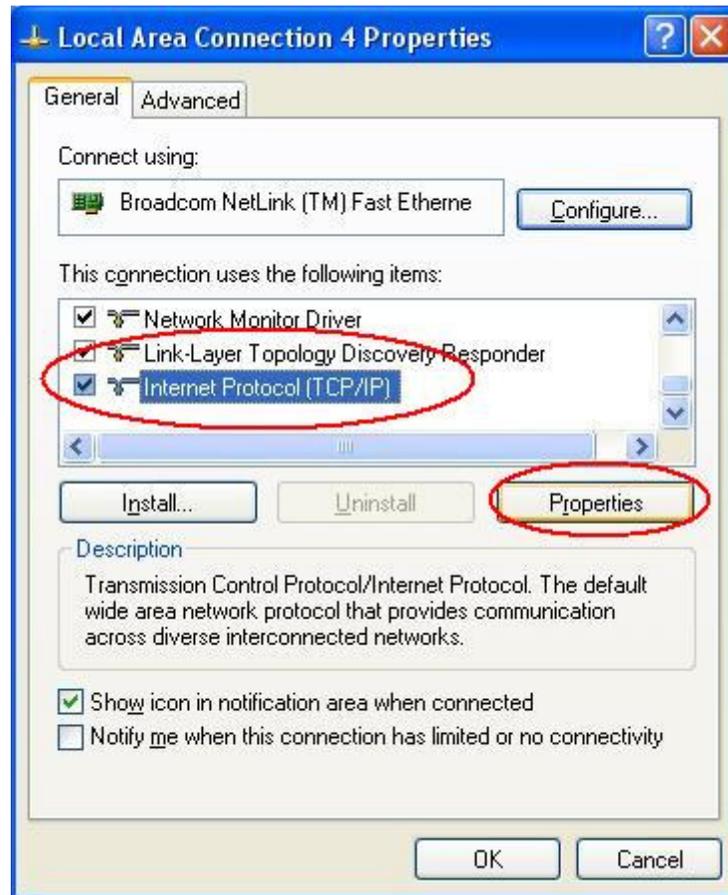
If you have enabled Wireless Security, make sure you write down the Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.

[More...](#)

WIRELESS

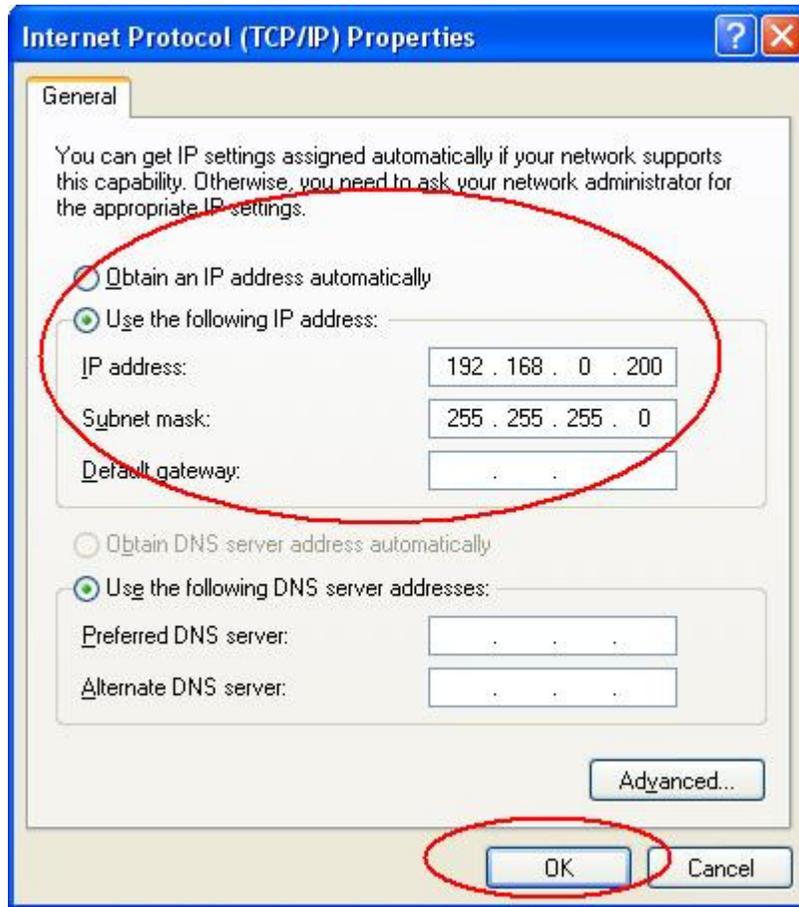
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1. Connect the DAP-1150 via Ethernet to your computer (direct)
 2. Set your computers **Local Area Connection (LAN)** with a Static IP
- Click **START > CONTROL PANEL > NETWORK CONNECTIONS**
 - Right Click the **LOCAL AREA CONNECTION** icon and select **PROPERTIES**
 - Select **Internet Protocol TCP/IP** in the list of protocols and select **PROPERTIES**



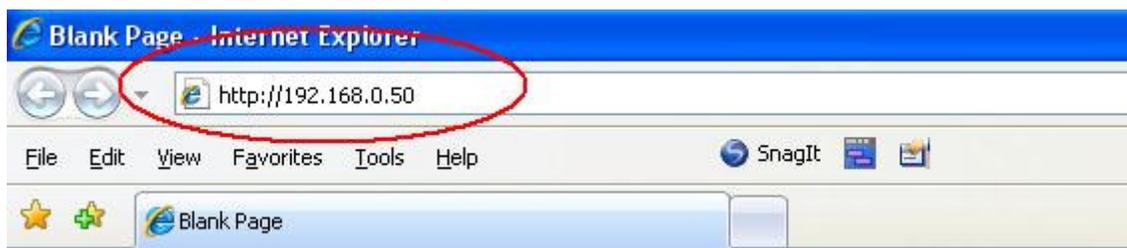
3. Set the TCP/IP properties to **USE THE FOLLOWING IP ADDRESS** and enter the following in to the fields provided:

- IP address: 192.168.0.200
- Subnet: 255.255.255.0



4. Click **OK** to save the changes on both windows

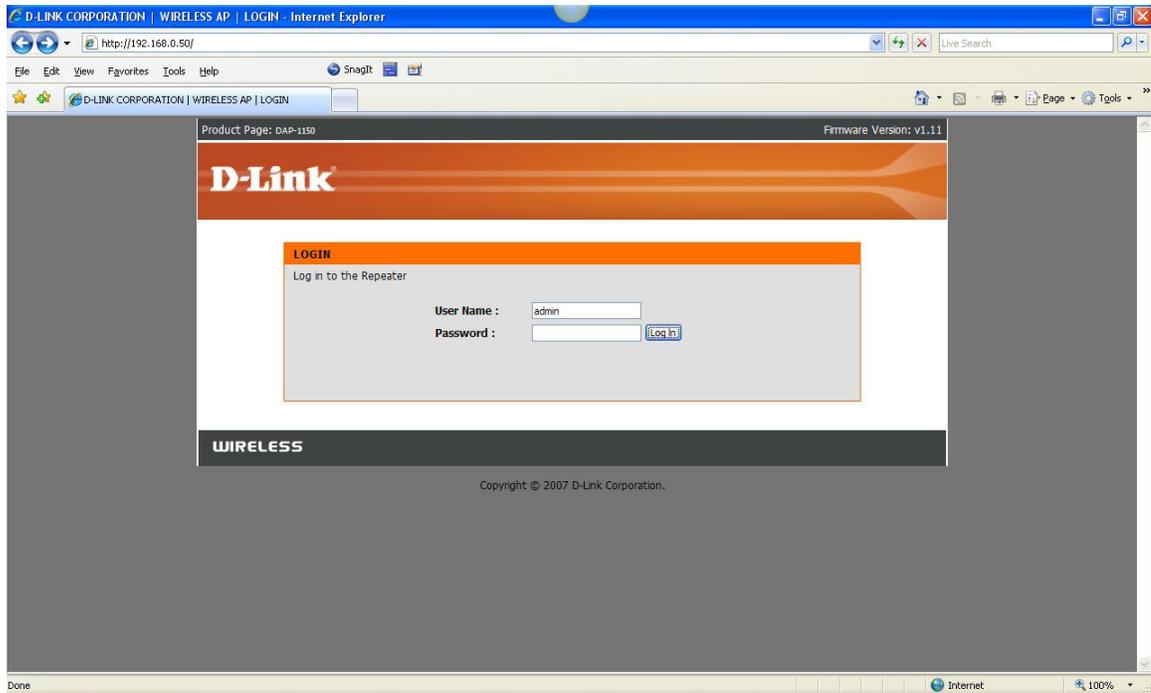
5. Open **Internet Explorer / Mozilla Firefox** and type: <http://192.168.0.50> in the address bar.



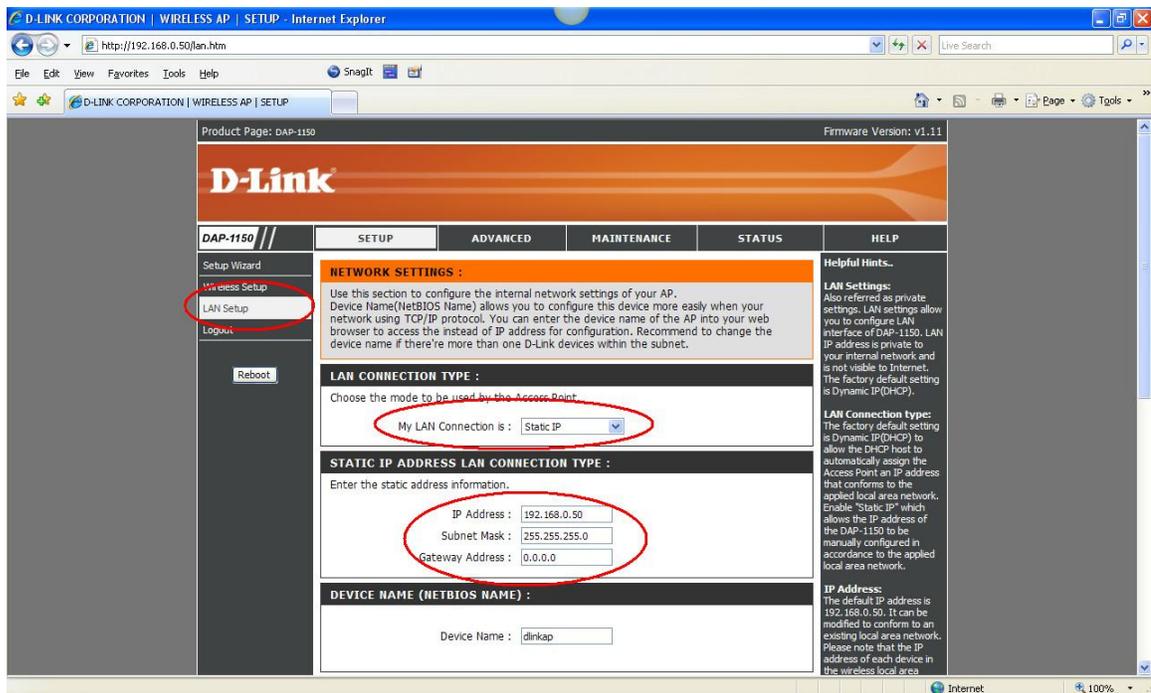
6. Press Enter

7. The DAP-1150 login page will be displayed:

- Username: admin
- Password: blank / nothing



8. Once logged in, select the LAN Setup menu button



9. Ensure that the IP Address of the DAP-1150 is in the same subnet as the rest of your network

- e.g. If your network is configured using 192.168.2.x, change the IP Address of the DAP-1150 to 192.168.2.50 (as long as it is not conflicting with another machine on the network).

10. Save any changes made. If the IP subnet was changed, you will need to change the IP of your **LOCAL AREA CONNECTION** again to match the DAP-1150. Log back in to the DAP-1150 using the new IP address e.g <http://192.168.2.50>

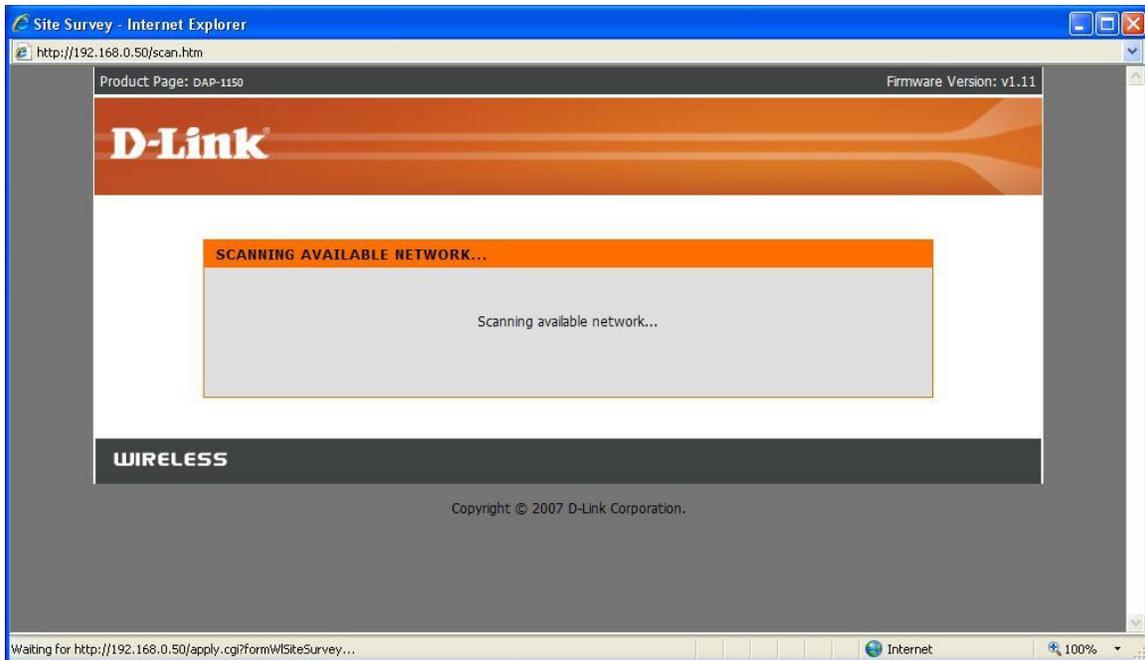
11. Click **WIRELESS SETUP** in the left menu

The screenshot shows the D-Link DAP-1150 web interface. At the top, it displays 'Product Page: DAP-1150' and 'Firmware Version: v1.11'. The D-Link logo is prominently featured. Below the logo is a navigation bar with tabs for 'DAP-1150', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is selected, and the 'WIRELESS CONNECTION' sub-tab is active. The left sidebar contains a 'Setup Wizard' menu with options for 'Wireless Setup', 'LAN Setup', and 'Logout', along with a 'Reboot' button. The main content area is titled 'WIRELESS CONNECTION' and contains the following sections:

- WIRELESS NETWORK SETTINGS :** Wireless Mode is set to 'Repeater' with a 'Site Survey' button. Wireless Network Name is 'dlink655'. Wireless Channel is '8'. 'Enable Auto Channel Scan' is checked. 'Enable Hidden Wireless' is unchecked.
- WIRELESS SECURITY MODE :** Security Mode is set to 'Enable WPA2 Wireless Security (enhanced)'.
- WPA2 :** Cipher Type is 'TKIP', PSK / EAP is 'Personal', Passphrase is 'passw0rd', and Confirmed Passphrase is 'passw0rd'.
- WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) :** The 'Enable' checkbox is unchecked.

At the bottom of the main content area are 'Apply Settings' and 'Cancel' buttons. On the right side, there is a 'Helpful Hints..' section with three sub-sections: 'Wireless Mode', 'Wireless Network Name', and 'Hidden Wireless', each providing detailed instructions and recommendations for configuration.

12. Select **SITE SURVEY** to scan for the existing Wireless Network which you wish to repeat.



13. Select the radio button for the **SSID (Network Name)** from the list you wish to repeat and click **CONNECT** at the bottom of the window.



14. Enter the WEP or WPA-PSK (passphrase) in the field required to complete the setup. **The Site Survey scan will auto-fill the rest of the fields such as the type of security the primary router / AP is using.**

WIRELESS NETWORK SETTINGS :	
Wireless Mode :	Repeater <input type="button" value="Site Survey"/>
Wireless Network Name :	<input type="text" value="dlink655"/> (Also called the SSID)
Wireless Channel :	<input type="text" value="1"/> (Domain:ETSI)
Enable Auto Channel Scan :	<input checked="" type="checkbox"/>
Enable Hidden Wireless :	<input type="checkbox"/> (Also called Disable SSID Broadcast)

WIRELESS SECURITY MODE :	
Security Mode :	<input type="text" value="Enable WPA2 Wireless Security (enhanced)"/>

WPA2 :	
WPA2 requires stations to use high grade encryption and authentication.	
Cipher Type :	<input type="text" value="TKIP"/>
PSK / EAP :	<input type="text" value="Personal"/>
Passphrase :	<input type="text" value="passw0rd"/>
Confirmed Passphrase :	<input type="text" value="passw0rd"/>

WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) :	
Enable :	<input type="checkbox"/>

15. Apply the settings and the unit will save the changes and reboot.

16. Log back in to the DAP-1150 when the page reloads and select **STATUS > WIRELESS** in the menu.

- You will notice that when the DAP-1150 is successfully communicating with the primary router or access point, the MAC Address of the device is displayed in the client list. In this example, the MAC Address of the DIR-655 is 00:19:5b:4b:b5:e7.
- The second MAC Address in the list is the Wireless Client (Laptop) which is connecting to the repeater (explained from Step 17.)

Product Page: DAP-1150 Firmware Version: v1.11

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DAP-1150 // SETUP ADVANCED MAINTENANCE **STATUS** HELP

Device Info
Log
Statistics
Wireless
Logout

Reboot

CONNECTED WIRELESS CLIENT LIST :

The Wireless Client table below displays Wireless clients connected to the AP (Access Point). In Wireless Client mode it displays the connected AP's MAC address and connected Time.

Connected Time	MAC Address
188 sec	00:19:5b:4b:b5:e7
188 sec	00:1f:3b:30:f5:73

Helpful Hints..

Wireless
Displays connected client station main parameters, such as Connect Time and station MAC address. In AP Client mode it displays the connected AP's MAC address and connected Time.

To establish a connection to the repeated network, you will need to ensure that you have the 3rd party software for your Wireless Card installed on the system.

- In this example, the Intel 4965AGN is used with the IntelPROSet Utility.

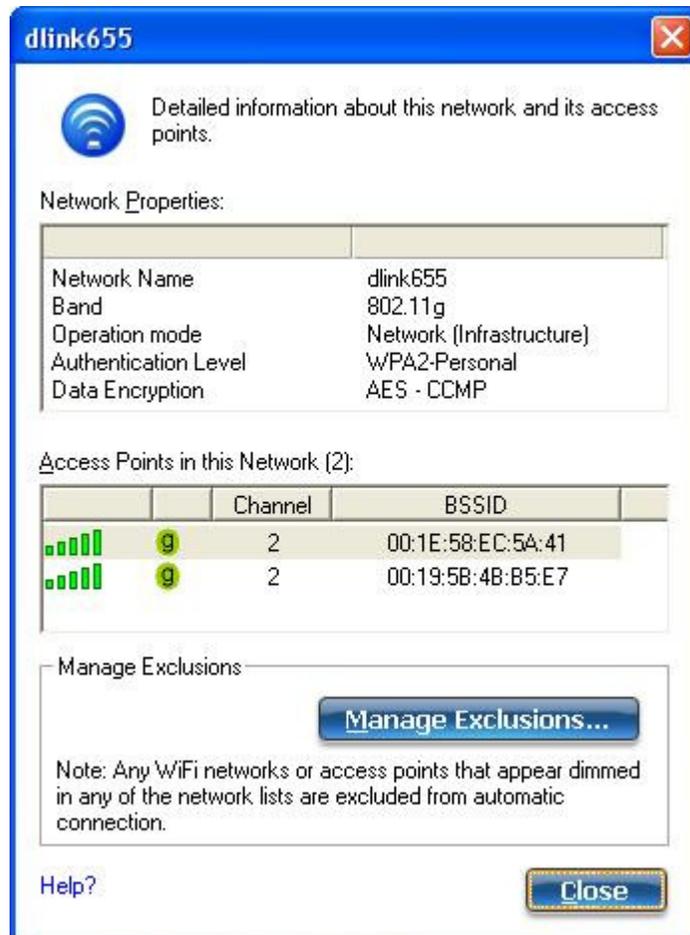
17. Open the Wireless Management utility and scan / refresh the network list. The SSID of your network will be displayed as one network only.



18. To check whether both units are broadcasting the same **SSID**, select your networks **SSID** in the list of available networks and click the **PROPERTIES** button.

As you can see in the image below, both **MAC Addresses** are listed.

- **00:1E:58:EC:5A:41 – DAP-1150**
- **00:19:5B:4B:B5:E7 – DIR-655**



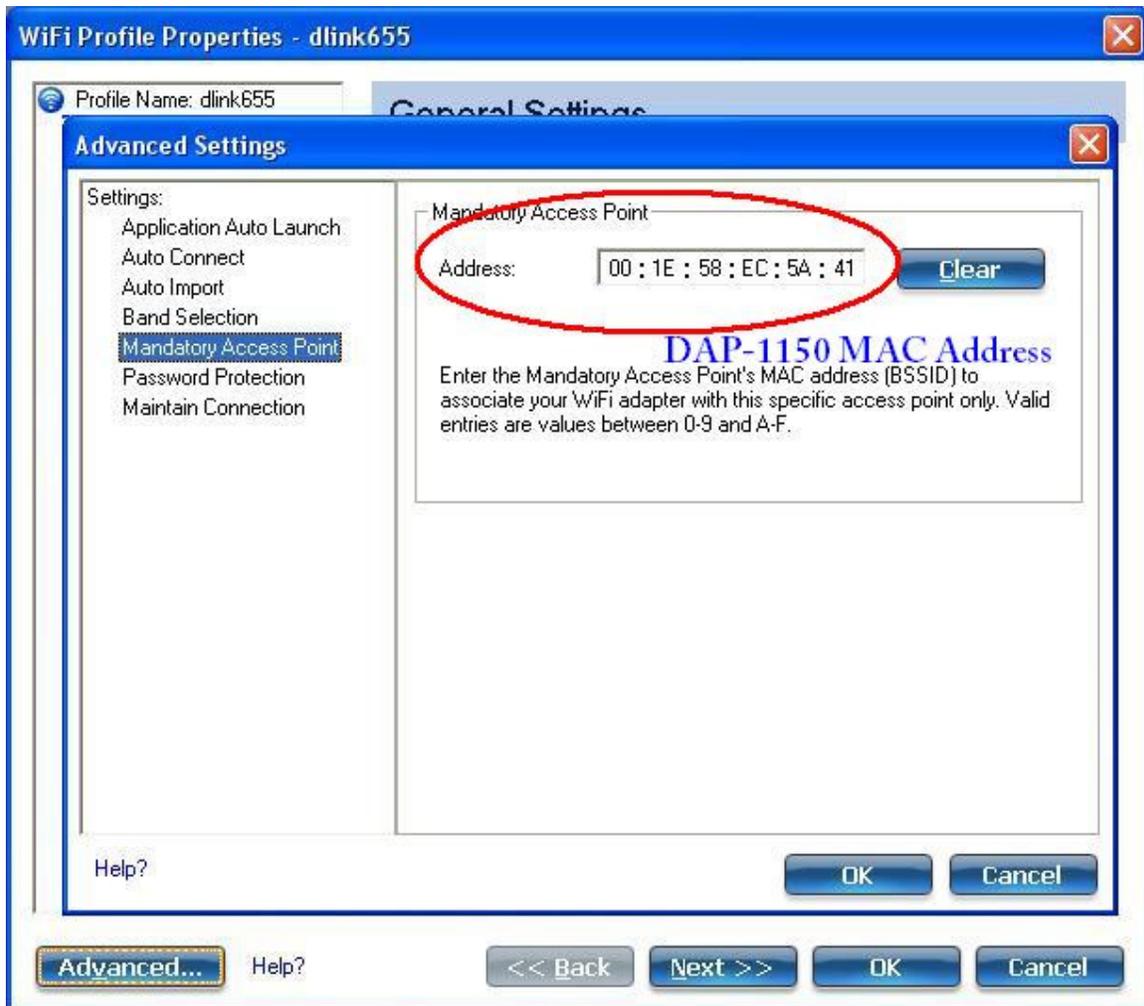
19. Connect to the network and enter the **Pre Shared Key / Passphrase** for the network.

20. Once successfully connected, you will need to specify which AP you want the client (PC) to connect too. Click the **PROFILES** button in the utility. Select the profile for your network and click **PROPERTIES**.

- **Setting a Mandatory Access Point will force the client to connect to the Access Point MAC Address specified**



21. Select the **MANDATORY ACCESS POINT** in the Settings menu.
22. Enter the **MAC Address** of your DAP-1150 and click **OK**.
23. Click **OK** in the previous Profile window.



24. The client will now automatically re-attempt connection to the network. If successfully established, it will receive an IP Address successfully from the DHCP Server / Primary Access Point or Router.