## **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.

SETUP	ADVANCED	TOOLS	STATUS	su
WIRELESS		-		Helpful Hi
Use this section to conf	igure the wireless setti	ngs for your D-Link Route	er. Please note that	Changing
changes made on this s	ection may also need t	o be duplicated on your	Wireless Client.	Network first step
Save Settings	Don't Save Settings			your wire Change it
WIRELESS NETWOR	K SETTINGS			name tha contain a
				informati
Enable	Wireless : 🔽 🗛	ays 💉 🚺 New Schedule	•	Enable A
Wireless Netw	ork Name : dlink655	(Also called	the SSID)	select th
802	.11 Mode : 802.11g d	nly	*	wireless
Enable Auto Char	Channel : Daszou	CH6 V		
Transmis	sion Rate : Best (auto	omatic) 🖌 (Mbit/s)		is anothe
Visibili	ty Status : 💿 Visib	le 🔘 Invisible		With this
				clients w
WIRELESS SECURIT	Y MODE			see your network
To protect your privacy	vou can configure wire	ess security features. Th	is device supports three	available
wireless security modes, wireless encryption stand	including WEP, WPA-P lard. WPA provides a h	ersonal, and WPA-Enterp igher level of security. W	rise. WEP is the original PA-Personal does not	connect
require an authentication	server. The WPA-Ent	erprise option requires ar	external RADIUS server.	you will manually
Secu	ity Mode : WPA-Pers	onal 😽		Wireless on each
				If you ha
WPA				Wireless sure you
Use WPA or WPA2 mod	le to achieve a balance	of strong security and b	est compatibility. This	the Key that you
mode uses WPA for lega capable. Also the stronge	cy clients while maintai est cipher that the clier	ning higher security with nt supports will be used.	stations that are WPA2 For best security, use	configur need to
WPA2 Only mode. This with WPA security. For n	mode uses AES(CCMP) naximum compatibility,	cipher and legacy statio use WPA Only. This mo	ns are not allowed access de uses TKIP cipher.	informat wireless
Some gaming and legacy	devices work only in t	his mode.	4	you con wireless
To achieve better wirele	ss performance use WI	PA2 Only security mode	(or in other words AES	Mara
cipitery.				. tore
w	PA Mode : WPA2 On	у 🔽		
Cite	oher Type : TKIP	<b>V</b>		
Group Key Update	a interval : 3600	(seconds)		
PRE-SHARED KEY				
Enter an 8- to 63-charac length and should not be	ter alphanumeric pass-r a commonly known p	ohrase. For good security hrase.	it should be of ample	
Due Ch	aread Vour	Contract of the second s		



- 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

Local Area Connect	ion 4 Propert	ies	? 🛛
General Advanced			
Connect using:			
Broadcom NetLink	(TM) Fast Ethern	e <u>C</u> onf	igure
This connection uses the	following items:		
Retwork Monito	r Driver		~
Link-Layer Topo	logy Discovery R	esponder	
			~
<	00		>
I <u>n</u> stall	<u>U</u> ninstall		erties
Description			_
Transmission Control P wide area network pro across diverse intercor	rotocol/Internet F tocol that provide: nnected networks	'rotocol. The d s communicati	lefault on
Show icon in notificati	ion area when cor	nnected	
Notify <u>m</u> e when this c	onnection has limi	ted or no conr	nectivity
	_		
		OK	Cancel



- **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

	1 . II. X
ou can get IP settings assigned auto his capability. Otherwise, you need to	matically if your network supports ask your network administrator for
he appropriate us settings.	
∑ <u>0</u> btain an IP address automatica	ly 🔪
O Use the following IP address: —	
<u>I</u> P address:	192.168.0.200
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	
O Obtain DNS server address auto	matically
O Use the following DNS server ad	dresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	· · ·
	Advanced

- 4. Click **OK** to save the changes on both windows
- 5. Open Internet Explorer / Mozilla Firefox and type: <u>http://192.168.0.50</u> in the address bar.

🖉 Blank I	Page Internet Explorer	
00	e lettp://192.168.0.50	
<u>F</u> ile <u>E</u> dit	<u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	🌍 SnagIt 🗮 📑
😭 🏟	🔏 Blank Page	

6. Press Enter



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

- Username: admin
- **Password:** blank / nothing

🖉 D-LINK CORPORATION   WIRELESS AP   LOGIN - Internet Explorer		- 7 🛛
( ) · //192.168.0.50/	Live Search	P -
Ele Edit View Favorites Iools Help Snagit 🧮 过		
🚖 🏟 🎉 D-LINK CORPORATION   WIRELESS AP   LOGIN	🏠 🔹 📾 👘 🖶 Bage	• 💮 T <u>o</u> ols • »
Product Page: DAP-1350  D-Link  Log In to the Repeater  User Name :	Frmware Verson: v1.11	
Copyright © 2007 D-Link Corporation.		
		×
Done	😌 Internet	💐 100% 🔹 🚲

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

Original Construction     Original Construction     Original Construction     Original Construction     Original Construction     Original	C D-LINK CORPORATION   WIRELESS AP   SETUP - Inte	rnet Explorer					
EM       EM       EM       Image: I	🚱 🕤 👻 http://192.168.0.50/lan.htm					🖌 🛃 🗙 Liv	re Search 🖉 🔹
Control of the second control of the sec	Eile Edit View Favorites Tools Help	🌍 SnagIt 🗮 🛃					
Product Page: DAN-1180       Fitting August 2011       *         DP-Lintk*         DAP-1180       STUP       ADVARCED       MAINTERANCE       STATUS       HELP         Bedge 1180       STUP       ADVARCED       MAINTERANCE       STATUS       HELP         Bedge 1180       Microsoft End Status 2005       Status 2005       HELP       Helpful Hints:       Helpful Hints:         Winders Status 2005       Status 2005       Status 2005       Status 2005       Status 2005       Helpful Hints:       Helpful Hints:         Winders Status 2005       Status 2005       Status 2005       Status 2005       Status 2005       Helpful Hints:       Helpful Hints:         Winders 2005       Status 2005       Status 2005       Address for configuration, Recommend to change the device and end winder the subset.       Helpful Hints:       Helpful Hints:         Winders 2005       Status 2005       Hint 2006       Helpful Hints:	😤 🕸 🍘 D-LINK CORPORATION   WIRELESS AP   SETUP					🟠 •	🔊 - 🖶 - 🕞 Bage - 🎯 Tools - "
DAP-HS0///     SETUP     ADVANCED     HAINTERANCE     STATUS     HELP       Setup Wixard     HEWORK SETTINGS :     LAN Configure the internal network settings of your AP. Device hame (HetBIDS hame) allows you to configure this device more easily when your network setting (TOP) protocol. You can enter the device name of the AP into your veb to use on figure this device name of the AP into your veb to use on figure this device name of the AP into your web to use on figure this device name of the AP into your web to use on figure the internal network settings of your AP.     Hetpful Hints.       I boguk     LAN CONNECTION TYPE :     Enter the state of the appendix the subnet.     LAN CONNECTION TYPE :     Enter the state address information.       Choose the mode to be used by the Access Data     P Address I base to device and the Access Parket of appendix setting a Dynamic (PICPD).     LAN Connection is : State: P     LAN Connection type: The factory defail setting a Dynamic (PICPD).       Static IP ADDRESS LAN CONNECTION TYPE :     Enter the static address information.     P Address : Disc. Dis	Product Page: Dap-138	K				Firmware Version: v1.11	^
Setup Wizad       HEWORK SETTINGS :       Helpful Hints.         We dess Setup       Law bit section to configure the internal network satings of your AP.       Law bit section to configure the internal network satings of your AP.         Lopuxi       Device Hame (HetBIDS Name) allows you to configure the device name of the AP into your web browset to access the instead of IP address for configuration. Recommend to change the work sating there's more than one D-Link devices which the subinet.       Link Setup and there's more than one D-Link devices web with the subinet.         Interface       LAN CONNECTION TYPE :       The factor yipe: The factor yipe: The factor y default setting a Dymmer. IP/OFCP).         Static IP ADDRESS LAN CONNECTION TYPE :       Enter the static address information.       Law Configure LAW and the static address information.         IP Address :       192.180.09       Subnet Mask :       25.255.255.25.0         Subnet Mask :       25.255.255.25.0       access hort and address in an address in an address in an address in a stating of the applied load area network.         Device NAME (NETBIOS NAME) :	DAP-1150	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP	
	Setup Wizard	NETWORK SETTI Use this section to c Device Name(NetBIC network using TCP)L browser to access th device name f there LAN CONNECTION Choose the mode to My LAN STATIC IP ADDR Enter the static addr DEVICE NAME (N	NGS : onfigure a latence internal netwo P protocol. You can enter e instead of P address for te more than one D-Link of I TYPE : be used by the Accors P. La used by the Accors P. I Connection is : State: IP ESS LAN CONNECTION ess information. IP Address : 192:163 Subnet Mask : 255.255 tetway Address : 0.0.0.0 ETBIOS NAME) : Device Name : dinkap	ork settings of your AP, Infigure this device more ease the device name of the AP configuration. Recommend evices within the subnet. Infiguration of the sub	ay when your into your web to change the	And settings: LAB settings: Also referred as private settings: LAV settings allow the face of 0.04-LISL 0.04 Proprietarial perborish and is not viable to Internet. The factory default setting is Dynamic (PGND2). LAB Connection type: The factory default setting is Dynamic (PGND2) to automatically assign the Access Point an JP address of the 0.04-LISL be manually configured to the owner. Enable States D* which allow the DF2 address of the 0.04-LISL be be manually configured to the applied according to the applied acco	



- 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 <a href="http://192.168.2.50">http://192.168.2.50</a>
- Product Page: DAP-1150 Firmware Version: v1.11 D-Link DAP-1150 SETUP ADVANCED MAINTENANCE STATUS HELP Helpful Hints.. Setup Wizard WIRELESS CONNECTION Wireless Setup Wireless Mode: Use this section to configure the wireless settings for your D-Link Access Point. Please note Select a function mode from switch button to LAN Setup that changes made on this section will also need to be duplicated to your wireless clients and PC configure your wirele Logout etwork, Function wireless s include Access To protect your privacy you can configure wireless security features. This device supports three oint, Wireless Client and epeater. Function wireless security modes including: WEP or WPA and WPA2. Reboot vireless modes are signed to support WIRELESS NETWORK SETTINGS : arious wireless network opologies and applications Wireless Mode : Repeater Site Survey Wireless Network Wireless Network Name : dlink655 (Also called the SSID) Wireless Channel : 8 (Domain:ETSI) Changing your Wireless Network Name is the first Enable Auto Channel Scan : 📝 step in securing your wireless network. We Enable Hidden Wireless : (Also called Disable SSID Broadcast) ecommend that you hange it to a familiar nar that does not contain any personal information. WIRELESS SECURITY MODE : Security Mode : Enable WPA2 Wireless Security (enhanced) Hidden Wireless: Enabling Hidden Mode is another way to secure your network. With this option enabled, no wire WPA2: ts will be able to see WPA2 requires stations to use high grade encryption and authentication. our wireless network they perfo e what's available. In Cipher Type : TKIP 🗸 er for your wirele evices to connect to your P, you will need to PSK / EAP : Personal V anually enter the Wirele etwork Name on each Passphrase : passw0rd device. Confirmed Passphrase : passw0rd ecurity Keys: If you have enabled Wireless Security, make WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) : sure you write down WEP Key or Passphrase that yo nave configured. You will Enable : ed to enter this nformation on any wirel levice that you connect to Apply Settings Cancel our wireless network Wi-Fi Protected Setup (Also called WCN 2.0 in
- 11. Click WIRELESS SETUP in the left menu



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

🖉 Site Survey - Internet Explorer	
E http://192.168.0.50/scan.htm	~
Product Page: DAP-1150 Firmware Version: v1.11	~
D-Link	
SCANNING AVAILABLE NETWORK	
Scanning available network	
WIRELESS	
Copyright © 2007 D-Link Corporation.	
Walting for http://192.168.0.50/apply.cgi?formWlSiteSurvey 😜 😪 Internet	100% 🔹 📑

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.

🖉 Site Survey - Internet Explorer							
http://192.168.5.50/sitesurvey.htm							~
DLINKSales	00195b988416	11 (B+G)	AP	WPA-PSK	56	0	
STATIC	001195ccd567	6 (B+G)	AP	WPA-PSK/WPA2-PSK	55	0	
dlink_guest1	06195b4bb5e7	4 (B+G)	AP	WPA-PSK/WPA2-PSK	52	0	
dlink655	00195b4bb5e7	4 (B+G)	AP	WPA2-PSK	52	0	
D-Link_GUEST	0411f0dac57c	6 (B+G)	AP	no	50	0	
D-Link_OFFICE	001cf0dac57c	6 (B+G)	AP	WPA	50	0	
brotherPSC		242	222		1000	~	



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	5:
Wireless Mode :	Repeater Site Survey
Wireless Network Name :	dlink655 (Also called the SSID)
Wireless Channel :	1 (Domain:ETSI)
Enable Auto Channel Scan :	
Enable Hidden Wireless :	(Also called Disable SSID Broadcast)
WIRELESS SECURITY MODE :	
Security Mode :	Enable WPA2 Wireless Security (enhanced)
Cipher Type :	
PSK/ EAP :	Personal V
Passphrase :	passw0rd
Confirmed Passphrase :	passw0rd
WIFI PROTECTED SETUP (ALSO	CALLED WCN 2.0 IN WINDOWS VISTA) :
Enable :	
Ap	ply Settings Cancel

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.)

				Firmware Version: v1.11
K				$\prec$
SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
CONNECTED WIRED The Wireless Client tab Wireless Client mode it Connected Time 188 sec 188 sec 188 sec	MAC Address 00:19:5b:4b:b5:e7 00:1f:3b:30:f5:73	clients connected to the I's MAC address and con	AP (Access Point). In nected Time.	Helpful Hints Wireless Displays connected dient 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.
	SETUP CONNECTED WIRE The Wireless Client tab Wireless Client mode it Connected Time 188 sec 188 sec	SETUP         ADVANCED           CONNECTED WIRELESS CLIENT LIST :         The Wireless Client table below displays Wireless Wireless Client mode it displays the connected AF           Mac Address         188 sec         00:19:5b:4b:b5:e7           188 sec         00:11:3b:30:f5:73	SETUP         ADVANCED         MAINTENANCE           CONNECTED WIRELESS CLIENT LIST :         The Wireless Client table below displays Wireless clients connected to the Wireless Client mode it displays the connected AP's MAC address and com           Connected Time         MAC Address           188 sec         00:19:5b:4b:b5:e7           188 sec         00:1f:3b:30:f5:73	SETUP         ADVANCED         MAINTENANCE         STATUS           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



To establish a connection to the repeated network, you will need to ensure that you have the 3<sup>rd</sup> 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.

🗊 Intel® PRO	Set/Wireless WiF	i Connection	Utility	
<u>File T</u> ools Ad <u>v</u>	anced Pr <u>o</u> files <u>H</u> e	lp		
				(intel)
	You are cor	nnected to	dlink655.	
	Network Name: Speed:	dlink655 54.0 Mbps		Details
	Signal Quality: IP Address:	Excellent 192.168.5.19	17	
_ WiFi Networ	k <u>s</u> (19)			
olle	dlink655 This network has s	ecurity enabled	Connected	9 0
olle	brotherPSC This network has s	ecurity enabled		<mark>9</mark>
olle	clint624s This network has s	ecurity enabled		8 <mark>9</mark>
olle	clint685 This network has s	ecurity enabled		<b>8</b> 0 <mark>∞</mark>
Disco	nnect Prop	erties	[	<u>R</u> efresh
To manage p Profiles buttor	rofiles of previously co n.	onnected WiFi net	works, click the	Profiles
w	iFi On 📃 🔻	Hardware radi ON	o switch: Hel	p? <u>Close</u>



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

llink655	i			×
(Solution Network	Detaile points. Propertie:	ed information	about this network and its access	~
Network Band Operatio Authenti Data En	Name n mode ication Le	wel	dlink655 802.11g Network (Infrastructure) WPA2-Personal AES - CCMP	
<u>A</u> ccess P	oints in th	nis Network (2 Channel	2): BSSID	_
	g 9	2 2	00:1E:58:EC:5A:41 00:19:5B:4B:B5:E7	
   Manage	e Exclusio	ons		1
Note: A in any o connec	ny WiFin fthe netv tion.	etworks or ac vork lists are	Manage Exclusions ccess points that appear dimmed excluded from automatic	
Help?			Close	

**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

Profiles			X
	Once you connect to a ne connected, Intel® PROSe connect in the order speci	twork, it is saved as a profile. t/Wireless WiFi Connection L fied in this list.	When you are not Itility tries to automatically
	Profile Name	Network Name	
044	dlink655	dlink655	
			¥
Con	nect <u>A</u> dd	Remove	Properties
Export/li	mport		
	Export the selected pro	file:	Export
2	Import external profiles	to your profile list:	Import
Help?			Close



- 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.

