How to Enable Security on Wireless Network with DIR-xxx series

It is recommended to secure your wireless network. To do that you can enable encryption on your router. As a result of this only the users who know the encryption key ("password") you have set on your router, could access the wireless network. It is recommended to use WPA-Personal encryption, especially if your have 802.11n wireless card. Please kindly note that 802.11n standard only supports WPA encryption. If your wireless card does not support it, use WEP.

To enable wireless and encryption please follow these steps:

Step 1. Open your web browser and enter the IP address of the router (http://192.168.0.1). Enter user name and password (default username 'Admin' and password is blank (nothing)).

🗿 D-LINK SYSTEMS, INC. WIRELESS ROUTER : Login - Microsoft Internet Explorer provided by D-Link Australia 📃 [
Elle Edit View Favorites Tools Help	-
Address 🕘 http://192.168.0.1 🕑 🕞 Go	2.
Product Page: DIR-635 Hardware Version: A1 Firmware Ver	sior 🔷
D-Link	
LOGIN	
Log in to the router: User Name : Admin V Password : Log In	
WIRELESS	
Copyright © 2004-2006 D-Link Systems, Inc.	>
Done Done	

Step 2. Click on 'WIRELESS SETTINGS' button on the left side of your screen. Then click on 'Manual Wireless Network Setup'.

Address Address http://192	avorites <u>l</u> oois <u>H</u> eip .168.103.1/Basic_Internet.h	tml			🗸 🛃 Go 🛛 🗲
Product Page: DIR-635				Hardware Version	: A1 Firmware Versi
DIR-635	SETUP	ADVANCED	TOOLS	STATUS	SUPPOR
INTERNET WIRELESS SETTINGS NETWORK SETTINGS	INTERNET CONNER There are two ways to so Setup Wizard, or you can	ETION et up your Internet connection: n manually configure the connec	you can use the Web-based tion.	Internet Connection	Helpful Hints If you are new to networking and ha never configured before, click on So Wizard and the r
	INTERNET CONNEC If you would like to utilize Systems Router to the In below.	CTION WIZARD a our easy to use Web-based W Internet, as well as configure the Setup W	fizards to assist you in conne Wireless settings, click on tl /izard	cting your new D-Link ne Setup Wizard button	simple steps to ge network up and ru advanced user an configured a rout before, click Man Configure to inpus
	Note: Before launching t Installation Guide include	hese wizards, please make sure d in the package.	e you have followed all steps	outlined in the Quick	More

WIRELESS NET	WORK SETUP WIZARD
This wizard is desig step-by-step instru	gned to assist you in your wireless network setup. It will guide you through actions on how to set up your wireless network and how to make it secure.
	Wireless Network Setup Wizard
Note: Some chang your wireless client	ges made using this Setup Wizard may require you to change some settings on t adapters so they can still connect to the D-Link Router.
ADD WIRELESS	5 DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD
This wizard is desig guide you through the button below	gned to assist you in connecting your wireless device to your router. It will 1 step-by-step instructions on how to get your wireless device connected. Click to begin.
	Add Wireless Device with WPS
MANUAL WIRE	LESS NETWORK SETUP
If your wireless ne wireless network v wireless settings o Network Setup bu	twork is already set up with Wi-Fi Protected Setup, manual confguration of the vill destroy the existing wireless network. If you would like to configure the f your new D-Link Systems Router manually, then click on the Manual Wireless itton below.
	Manual Wireless Network Setup



Step 3. Enable security and specify your security key ("password").

Option 1: WPA-PSK (more secure)

Under Security Mode select "WPA-Personal".

Under **Pre-shared Key** type in a password/key (you can just make it up). The key should be at least 8 characters long.

Click on 'Save Settings' and then 'Reboot the device'

WIRELESS SECURITY MO	DE		
To protect your privacy you can co security modes including: WEP, WP standard. WPA provides a higher le The WPA-Enterprise option require:	nfigure wireless security feature A-Personal, and WPA-Enterprise vel of security. WPA-Personal o s an external RADIUS server.	es. This device supports three wire e. WEP is the original wireless encr does not require an authentication	less yption server.
Security Mode :	WPA-Personal		
WPA			
Use WPA or WPA2 mode to achie for legacy clients while maintaining cipher that the client supports will b (CCMP) cipher and legacy stations a WPA Only . This mode uses TKIP ci	ve a balance of strong security higher security with stations tha e used. For best security, use a are not allowed access with WP, pher. Some gaming and legacy	and best compatibility. This mode us at are WPA2 capable. Also the stro WPA2 Only mode. This mode uses A security. For maximum compatibi devices work only in this mode.	ises WPA ngest : AES ity, use
To achieve better wireless perform	ance use WPA2 Only security (mode (or in other words AES cipher	ŷ.
WPA Mode :	Auto (WPA or WPA2) 🔽		
Group Key Update Interval :	3600 (seconds)		
PRE-SHARED KEY			
Pre-Shared Key	•••••	>	
WIRELESS			
Wireless Network Settings			
Use this section to configure the wireless	settings for your D-Link Router. Plea	D-Link	
this section may also need to be duplicate	d on your Wireless Client.		
Save Settings Don't Sav	e Settings		
WIRELESS NETWORK SETTING	35	SUCCESS	
Enable Wireless : 🛛 🗸			us been sound
Wireless Network Name : dlin	k (Also called the	The new settings ha	ve been saved.
Enable Auto Channel Scan : 🛛 📝		The router must be	rebooted before the new settings
Wireless Channel : 2.4	37 GHz - CH 6 🛛 🛩	make other changes	
802.11 Mode : Mb	ed 802.11n, 802.11g and 802.11b	Reboot the De	avice
Channel Width : Au	to 20/40 MHz 💉		
Visibility Status · 🔗	Vicible O Invicible	Continue	
i visionicy searces .			

Option 2: WEP (less secure)

Under Security select "WEP".

Under WEP Key type in the encryption key you want to use. 64 Bit encryption requires a 10 character HEX key and 128 bit encryption requires a 26 character HEX key. (HEX characters include numbers from 0 to 9 and letters from A to F).

Click on 'Save Settings' and then 'Reboot the device'

Security Mode :	WEP
WEP	
If you choose the WEP securi mode (802.11B/G). This mear is not supported by the Draft	ty option this device will ONLY operate in Legacy Wireless ns you will NOT get 11N performance due to the fact that WEP 11N specification.
WEP is the wireless encryption stand wireless stations. For 64 bit keys you enter 26 hex digits into each key boo most secure use of WEP set the auth	dard. To use it you must enter the same key(s) into the router and the u must enter 10 hex digits into each key box. For 128 bit keys you must x. A hex digit is either a number from 0 to 9 or a letter from A to F. For the hentication type to "Shared Key" when WEP is enabled.
You may also enter any text string in key using the ASCII values of the ch and a maximum of 13 characters for	nto a WEP key box, in which case it will be converted into a hexadecimal aracters. A maximum of 5 text characters can be entered for 64 bit keys, 128 bit keys.
You may also enter any text string in key using the ASCII values of the ch and a maximum of 13 characters for WEP Key Length : WEP Key 1 :	ato a WEP key box, in which case it will be converted into a hexadecimal varacters. A maximum of 5 text characters can be entered for 64 bit keys, 128 bit keys. 64 bit (10 hex digits) (length applies to all keys) 64 bit (10 hex digits) (length applies to all keys) 128 bit (26 hex digits) (length applies to all keys)
You may also enter any text string in key using the ASCII values of the ch and a maximum of 13 characters for WEP Key Length : WEP Key 1 : WEP Key 2 :	 at WEP key box, in which case it will be converted into a hexadecimal varacters. A maximum of 5 text characters can be entered for 64 bit keys, 128 bit keys. 64 bit (10 hex digits) (length applies to all keys) 64 bit (10 hex digits) 128 bit (26 hex digits) •••••••••
You may also enter any text string in key using the ASCII values of the ch and a maximum of 13 characters for WEP Key Length : WEP Key 1 : WEP Key 2 : WEP Key 3 :	ato a WEP key box, in which case it will be converted into a hexadecimal varacters. A maximum of 5 text characters can be entered for 64 bit keys, 128 bit keys. 64 bit (10 hex digits) (length applies to all keys) 64 bit (10 hex digits) 128 bit (26 hex digits) ••••••••• ••••••••
You may also enter any text string in key using the ASCII values of the ch and a maximum of 13 characters for WEP Key Length : WEP Key 1 : WEP Key 3 : WEP Key 4 :	 at WEP key box, in which case it will be converted into a hexadecimal haracters. A maximum of 5 text characters can be entered for 64 bit keys, 128 bit keys. 64 bit (10 hex digits) (length applies to all keys) 64 bit (10 hex digits) 128 bit (26 hex digits) •••••••• ••••••••
You may also enter any text string in key using the ASCII values of the ch and a maximum of 13 characters for WEP Key Length : WEP Key 1 : WEP Key 2 : WEP Key 3 : WEP Key 4 : Default WEP Key :	Anto a WEP key box, in which case it will be converted into a hexadecimal baracters. A maximum of 5 text characters can be entered for 64 bit keys, 128 bit keys. 64 bit (10 hex digits) (Interst in the second sec

/ireless Network Settings		
se this section to configure the w	reless settings for your D-Link Router. Plea	-Link
his section may also need to be du	plicated on your Wireless Client.	
Save Settings Do	n't Save Settings	
VIRELESS NETWORK SE	TTINGS	SUCCESS
Enable Wireless		
Wireless Network Name	: dlink (Also called the	The new settings have been saved.
Enable Auto Channel Scan	: V	The router must be rebooted before the new settings
Wireless Channel	2,437 GHz - CH 6	make other changes and then use the reboot button
802.11 Mode	Mixed 802.11n, 802.11g and 802.11b	Reboot the Device
Channel Width	Auto 20/40 MHz 💙	Nebber die bevie
Transmission Rate	: Best (automatic) 💉 (Mbit/s)	Captions



Step 4. Reconnect your wireless clients (computers) to the wireless network using the specified key ("password"). Note that after applying the security on your router, your wireless clients will lose wireless connectivity until you specify the correct key ("password").

To reconnect to the wireless network:

On your wireless computers delete the old profile for the wireless network connection (if present). Attempt to connect to your wireless network again. You will be prompted to enter the encryption key ("password"). Type in the key you have entered in Step 2. Note that the WPA/WPA2-PSK key is case sensitive.

To delete the old profile:

D-Link Air Utility

Click on 'Site Survey'. Highlight the WLAN profile under "Profiles" field and click on Remove.

D DWL-G650M Sup	er G MIMO Technology Wireless Utility	
Link Info.	Available Network	
Configuration	BSS/IBSSID SSID WEP A	Refresh
	💡 00-1E-13-6E-18-71 GUESTNET No Y	
Encryption	1 00-13-46-86-CD-28 dsl504t Yes Y	Connect
	1 00-1E-13-6E-18-70 A001 Yes Y	
SiteSurvey >>>	1 00-13-46-85-55-6E dlink No Y	9
About		
	Prefile	
	₽ GUESTNET	Add
	A dink	Remove
		Properties



Windows XP Utility

Go to Start>Control panel>Network Connections folder, right-click Wireless Connection > Properties > Wireless Networks. Highlight the profile under "Preferred networks" field and click on Remove.





or rough	Wireless Networks	Advanced	
🖌 Use	Windows to configur	e my wireless ne	twork settings
Availa	able networks:		
To co abou	nnect to, disconnect t wireless networks in	from, or find out range, click the	more information button below.
		View V	Vireless Networks
			Move down
1	Add	ive Pr <u>o</u> pe	rties
	100 DA 1000	1	



Windows Vista

Control Panel > Network and Internet > Network and Sharing Centre. Click on "Manage wireless networks". Right-click on the network you want to remove and select "Remove network".



Tasks					
View computers and devices	Manage Wi	reless Networks	 ✓ ✓	arch	
	vinidows thes to connect	to these networks in th	or remove network	profiles.	ci, diog o
Manage network connections Diagnose and repair	To see networks that use a	e list. You can also add i different wireless netv Change adapter 🤝 🍕	work adapter, click (Change adapter belov es 🛛 🔱 Profile types	w.
Manage network connections Diagnose and repair	To see networks that use a	e list. You can also add i different wireless netw Change adapter 🤝 🍕 odify (1)	work adapter, click (Change adapter belov es 🔒 Profile types	w.
Diagnose and repair	To see networks that use a Consection of the section of the secti	e list. You can also add i different wireless netw Change adapter 🤝 🧃 odify (1) Security: WP.	work adapter, click (Adapter propertion A-Personal	Change adapter belov es Rofile types Type: Any s	w.
Diagnose and repair See also Bluetooth Devices	To see networks that use a Add Remove C Networks you can view and m 2100ap Properties	e list. You can also add o different wireless netw Change adapter odify (1) Security: WP.	work adapter, click (Adapter propertion) A-Personal	Change adapter below es 🔏 Profile types Type: Any s	w. : » :upported
See also Bluetooth Devices Internet Options	Add Remove Conversion of the second s	i different wireless netw change adapter \sim (odify (1) Security: WP.	work adapter, click (Adapter propertion A-Personal	Change adapter below es 🏾 & Profile types Type: Any s	w. : >> :upported



The new profile will be created automatically after successful connection to the secured network.

Other security options (WPA2-PSK, WPA, 802.1x)

WPA2-PSK offers even better protection but not all clients may support WPA2-PSK. Advanced security options like WPA-Enterprise require a RADIUS server installed on a network, these mostly used in corporate environment.

