Sevision 5/25/2011

D-Link DIR-628: Elan Default Settings

Overview:

There are three routers that may have come with your Network Assembly. This document covers the new DIR-628 router. This router will have a sticker on the unit that indicates the model number. Visually it is a black router as opposed to the earlier grey and teal DI-624, or black and silver WBR-2310.

Required Tools:

- 1. Powered up and connected D-Link DIR-628.
- 2. Computer hooked into network served by DIR-628.

Router Login: Elan ships all D-Link routers with D-Link default login credentials. The IP is **192.168.0.1** and username is **admin**. There is no password needed to access the settings.

WAN Settings

The WAN (Wide Area Network) settings are used to connect to the Internet. You may need to click "Manual Configure" to reach this screen. Default routers settings below:



The default settings (Dynamic IP) will work for most **cable modem** installations. Note you may need to "Clone MAC Address" from your computer for the cable modem to allow the D-Link to see the internet.

If you are going to use a **DSL modem** or other type of Internet connection then you may need to change to PPPoE or to a static IP – See typical configuration below: consult your Internet Service Provider (ISP) for details.

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 http://1 	192.168.0.1/Basic/WAN.sht	7 - C	Soogle ₹	🔎 🐠 🍙		
		INTERNET CONNECTION TYP	E		If you are having trouble accessing the Internet through the router, double	_
		My Internet Connection is :	PPPoE (Username / Password)		check any settings you have entered on this page and verify them with your ISP if needed.	
		ADVANCED DNS SERVICE Advanced DNS is a free securit	y option that provides Anti-Phishing to protect you	ur stion	More	
		Enable Advanced DNS Service				
		PPPOE INTERNET CONNECTI	ION TYPE :			
		Enter the information provide	d by your Internet Service Provider (ISP).			
		Address Mode :	Oynamic IP C Static IP			
		IP Address :	0.0.0.0			
		Username :	Jusername			
		Verify Password :	·····			
		Service Name :	(optional)			
		Reconnect Mode :	Always on O On demand O Manual			
		Maximum Idle Time :	0 (minutes, 0=infinite)			
		Primary DNS Server :	0.0.0.0 (optional)			
		Secondary DNS Server :	0.0.0.0 (optional)			
		MTU :	1492 (bytes) MTU default = 1492			
		MAC Address :	00:18:e7:d0:c0:5f			
			Clone Your PC's MAC Address			
	WIRELESS					
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LAN Settings

The LAN (Local Area Network) settings specify the routers address and subnet mask on the home network, as shown below:



Router Settings

Typically, the router will be configured to a LAN IP of 192.168.0.1, with a Subnet Mask of 255.255.255.0, and DNS Relay enabled. Always broadcast is enabled for maximum compatibility.

DHCP Settings

The router includes a DHCP (Dynamic Host Configuration Protocol) server. By default, the DHCP server is enabled, with the addresses range set to 192.168.0.150-192.168.0.250.

Wireless Settings

The image below shows the default wireless settings for the router. You may need to click "Manual Wireless Network Setup" to see these options.



Wireless Encryption Settings

IMPORTANT: As shown above, the wireless encryption is enabled in WPA/WPA2 auto mode.

We suggest you make the following changes to the default router settings during installation to turn on encryption for the wireless network:

- Set the **SSID** to a name that corresponds to the house
- Set the channel to (Auto) if you have not tested to find the best channel for your install
- Set the SSID to be **Visible**
- Set the Security Mode to WPA-Personal
- Set **WPA** to Auto (WPA or WPA2)
- Set Cipher to TKIP and AES
- Set **Pre-Shared Key** as desired (default: 555555555)

Save your settings. You will need the SSID (is CASE SENSITIVE) and Key when you configure a tablet, or other WiFi device to connect to the wireless network.

Port Forwarding

There are two ports on the wireless router that are forwarded to the **g! Controller** in standard **g!** installations. Note that the D-Link contains two locations where port forwarding may be setup: Virtual Server (for single ports) and Port Forwarding (for a range of ports). Elan configures each port under the Virtual Server location by default. Either should be effective, but ensure you only configure port forwards in one location!

IMPORTANT NOTE: If there are other routers or firewalls in the network there may be additional steps required to properly setup the remote access. Contact the network administrator for details.

Port 443 or 2198: g! Remote Access: this port enables a remote user to access the Viewer/Configurator interface over the Internet using g!Connect. Make sure you set the correct external port in Configurator on the System tab. Note that legacy controllers used 443, and HC Controllers use 2198 by default. In default router settings Elan will forward both ports to the controller.

Port 5001 or 2199: **g! Service**: this port enables service connections, so that support personnel from Elan or from the dealer's office can access the **g! Controller** remotely to troubleshoot issues. Note that HomeBrick controllers used 5001, and MultiBrick/HC Controllers use 2199 by default. In default router settings Elan will forward both ports to the controller.

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	DIR-628		SETUP	ADVANCED		TOOLS		STATUS	SUPPORT	
	VIRTUAL SERVER	VIF	RTUAL SERVER						Helpful Hints	
	PORT FORWARDING	Th	e Virtual Server optio	n allows you to define :	a single pu	ublic port	on your route	r for redirection	Check the Application	
	APPLICATION RULES	to on	to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.						for a list of predefined server types. If you select	
	QOS ENGINE	Save Settings Don't Save Settings						one of the predefined server types, dick the		
	NETWORK FILTER								arrow button next to the	
	ACCESS CONTROL	24	VIRTUAL SERVE	RS LIST					the corresponding field.	
	WEBSITE FILTER					Port	Traffic Type		You can select a computer from the list of DHCP	
	INBOUND FILTER		Name			Public	Protocol	Schedule	dients in the Computer Name drop down menu,	
	FIREWALL SETTINGS		HomeLogic Old	< Application Na	me 💌	443	Both 💌	Always 💌	or you can manually enter the IP address of the	
	ROUTING		IP Address 192.168.0.2	< Computer Nar	ne 💌	Private 443	257	Inbound Filter	computer at which you would like to open the	
	ADVANCED WIRELESS		Name			Public	Protocol	Schedule	specified port.	_
	WI-FI PROTECTED SETUP	V	TermServ Old	< Application Na	me 💌	5001	Both 💌	Always 👻	the virtual server will be	
	ADVANCED NETWORK		192.168.0.2	< Computer Nar	ne 💌	5001	257	Allow All	the schedule you need in	
			Name OpeHome Remote	Application Na</td <td>me 🔹</td> <td>Public</td> <td>Protocol</td> <td>Schedule</td> <td>the Tools → Schedules, go to screen and create a new</td> <td></td>	me 🔹	Public	Protocol	Schedule	the Tools → Schedules, go to screen and create a new	
			IP Address			Private		Inbound Filter	schedule. Select a filter that restricts the Internet hosts that can	
			192.168.0.2	Computer Nar</td <td>ne 💌</td> <td>2198</td> <td>257</td> <td>Allow All 💌</td> <td></td>	ne 💌	2198	257	Allow All 💌		
			Name OneHome Service	< Application Na	me 🔹	Public 2199	Protocol Both -	Schedule Always -	access this virtual server to hosts that you trust. If	
		V	IP Address			Private		Inbound Filter	you do not see the filter you need in the list of filters, go to the Advanced →	
			192.168.0.2	< Computer Nar	ne 💌	2199 Dublic	257 Brotocol	Allow All		
		_	Name	< Application Na	me 💌	0	TCP -	Always -	Inbound Filter screen and create a new filter.	
			IP Address	Computer Nar		Private	6	Inbound Filter	More	
		-	Name			Public	Protocol	Schedule		
				< Application Na	me 💌	0	TCP 💌	Always 💌		
			IP Address 0.0.0.0	< Computer Nar	ne 💌	Private 0	6	Inbound Filter		
			Name			Public	Protocol	Schedule		
			ID Address	< Application Na	me 💌	0 Drivette	TCP -	Always -		
			0.0.0.0	< Computer Nar	ne 💌	0	6	Allow All		
			Name			Public	Protocol	Schedule		
			IR Address		e 🗾	Drivoto		Always 💌		

The following image shows the default port settings on the wireless router.

Other Settings

There are a few other settings configured in the D-Link as shown below:

QOS Engine- Disabled

(QOS shapes network traffic to prioritize certain types of packets. Typically this should only be enabled if it is required for performance of a specific application or device, such as VoIP software)



Firewall Settings-SPI Disabled

(SPI can provide some additional protection, but has also been known to cause corrupt downloads.)



<u>Advanced Wireless-</u> Disable WMM Enable, Short GI (These settings may be customized as needed for the specifics of your wireless install)

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	DIR-628	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT			
	VIRTUAL SERVER	ADVANCED WIREL	ESS			Helpful Hints			
	PORT FORWARDING	If you are not familiar	with these Advanced Wire	eless settings, please read	the help section	It is recommended that			
	APPLICATION RULES	before attempting to	modify these settings.			parameters at their default			
	QOS ENGINE	Save Settings Don	could limit the performance of your wireless network.						
	NETWORK FILTER	ADVANCED WIREL	ESS SETTINGS		Enabling WMM can help				
	ACCESS CONTROL	Transmi							
	INBOUND FILTER	Beacon Period : 100 (201000)				wireless connection.			
	FIREWALL SETTINGS	RTS Th Fragmentation Th	Thorea.						
	ROUTING	DTIM	Interval : 1	(1255)					
	ADVANCED WIRELESS	WLAN F	Partition : 🗆						
	WI-FI PROTECTED SETUP	WM	1 Enable : 🗆						
	ADVANCED NETWORK		Short GI : 🗀						
	WIRELESS								
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<u>WI-FI PROTECTED SETUP (WPS)</u> – Disabled. (WPS may be enabled if desired in your install; this is used for configuration of some network devices)

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Product Page: DIR-62	*		Hardware Version: A2 F	rmware Version: 1.25NA	<u> </u>
DIR-628	SETUP ADVA	ANCED TOOLS	STATUS	SUPPORT	
VIRTUAL SERVER PORT FORWARDING APPLICATION RULES QOS ENGINE NETWORK FILTER ACCESS CONTROL WEBSITE FILTER INBOUND FILTER FIREWALL SETTINGS ROUTING ADVANCED WIRELESS WI-FI PROTECTED SETUP	WI-FI PROTECTED SETUP Wi-FI Protected Setup is used to e Devices must support Wi-Fi Protection Save Settings Don't Save Setting WI-FI PROTECTED SETUP Enable : Lock Wireless Security Settings : PIN SETTINGS ADD WIRELESS STATION	asily add devices to a network using a ted Setup in order to be configured by	Helpful Hints Enable if other wireless devices you wish to include in the local network support Wi-Fi Protected Setup. Only "Admin" account can change security settings. Lock Wireless Security Settings after all wireless network devices have been configured. Click Add Wireless Device Wizard to use Wi-Fi Protected Setup to add wireless devices to the wireless network. More		
WIRELESS					_
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Advanced Network- Enable MultiCast Streams, Disable UPNP (UPnP may be enabled if in use, but is disabled by default as it can be used by rogue applications to create port forwards in the router. MultiCast Streams should be enabled for proper function of the g! software)

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	DIR-628	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT				
	VIRTUAL SERVER	ADVANCED NETWO	RK			Helpful Hints				
	PORT FORWARDING	If you are not familiar	with these Advanced Net	work settings, please read	d the help section	UPnP helps other UPnP LAN hosts interoperate				
	APPLICATION RULES	before attempting to	modify these settings.		with the router. Leave the UPnP option enabled as					
	QOS ENGINE	Save Settings Don	't Save Settings			long as the LAN has other UPnP applications.				
	NETWORK FILTER	UPNP				For added security, it is				
	ACCESS CONTROL	Universal Diversed D		w to poor Dive and Die	u functionality for	recommended that you disable the WAN Ping				
	WEBSITE FILTER	network devices.	Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.							
	INBOUND FILTER	Enal			Internet users to locate active networks or PCs.					
	FIREWALL SETTINGS			The WAN speed is usually						
	ROUTING	WAN PING				you are having problems				
	ADVANCED WIRELESS	If you apple this fo	ature the WAN port of	your router will recoo	nd to ping requests	try selecting to the wan,				
	WI-FI PROTECTED SETUP	from the Internet th	hat are sent to the WAN	IP Address.	manually. If you are baying trouble					
	ADVANCED NETWORK	Enable WAN Ping I	Respond : 🔽			receiving multicast streams				
		WAN Ping Inbou	nd Filter : Allow All			sure the Multicast Streams				
			Details : Allow All			More				
						_				
		WAN PORT SPEED								
		WAN Por	rt Speed : Auto 10/100Mb	ps 💌						
			· · ·							
		MULTICAST STRE	MS							
		Enable Multicast	Streams : 🗹							
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