### **Email Settings**

The Email feature can be used to send the system log files, router alert messages, and firmware update notification to your email address.

**Enable Email** When this option is enabled, router activity logs **Notification:** are e-mailed to a designated email address.

- **From Email** This email address will appear as the sender **Address:** when you receive a log file or firmware upgrade notification via email.
- To Email Address: Enter the email address where you want the email sent.
  - SMTP Server Enter the SMTP server address for sending email. Address: If your SMTP server requires authentication, select this option.

Enable	Check thi	s box	cif	your	SMTP	server	requires
Authentication:	authentica	ation.					

Account Name: Enter your account for sending email.

- Password: Enter the password associated with the account. Re-type the password associated with the account.
- **On Log Full:** When this option is selected, logs will be sent via email when the log is full.

DIR-628	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	EMAIL SETTINGS				Helpful Hints
IME	The Email feature can be	e used to send the syst	em log files, router alert	messages, and	You may want to
SYSLOG	firmware update notificat	Dealth Cause Cattions	iss.		similar to those of
MAIL SETTINGS	Save Settings	Don't Save Settings	]		email client progra
YSTEM	ENABLE				More
IRMWARE	Fachle Freedblack				
DYNAMIC DNS	Enable Email Notific	ation:			
SYSTEM CHECK					
SCHEDULES	From Frieil A	ddaaaa [			
	To Email Ad	ddress:			
	SMTP Server A	ddress.			
	Enable Authentic	ration :			
	Account	Name:			
	Pas	sword:			
	Verify Pas	sword:			
	EMAIL LOG WHEN FU	LL OR ON SCHEDU	LE		
	On Lo	og Full:			
	On Sch	hedule:			
	Sche	edule : Never 💌			
	D	etails : Never			

**On Schedule:** Selecting this option will send the logs via email according to schedule.

Schedule: This option is enabled when On Schedule is selected. You can select a schedule from the list of defined schedules. To create a schedule, go to Tools > Schedules.

### **System Settings**

Save Settings to Use this option to save the current router Local Hard Drive: configuration settings to a file on the hard disk of the computer you are using. First, click the Save button. You will then see a file dialog, where you can select a location and file name for the settings.

Load Settings Use this option to load previously saved from Local Hard router configuration settings. First, use the Drive: Browse control to find a previously save file of configuration settings. Then, click the Load button to transfer those settings to the router.

**Restore to Factory** This option will restore all configuration settings **Default Settings:** back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the Save button above.

**Reboot Device:** Click to reboot the router.

DIR-628	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	SYSTEM SETTINGS				Helpful Hints
TIME	The System Settings se	ection allows you to rebo	ot the device, or restore	the router to the	Once your router is
SYSLOG	factory default settings. including any rules that	. Restoring the unit to the you have created.	ne factory default setting	is will erase all settings,	configured the way want it, you can say
MAIL SETTINGS	The current system set	tings can be saved as a f	ile onto the local hard dr	ive. The saved file or	the configuration
SYSTEM	any other saved setting	I file created by device ca	an be uploaded into the	unit.	configuration file.
IRMWARE	SVSTEM SETTINGS				You might need thi
YNAMIC DNS					so that you can loa your configuration l
YSTEM CHECK	Save To Local Har	in the event that the router's default setting			
CHEDULES					are restored.
	Load From Local Har	d Drive:		Browse	To save the
		Restore	Configuration from File		configuration, click t Save Configuration button.
	Restore To Factory	Default: Restore F	Factory Defaults		More
		Restore all set	tings to the factory defa	ults.	

# **Update Firmware**

You can upgrade the firmware of the Router here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support site for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from the D-Link support site.

- Firmware Click on Check Online Now for Latest Firmware Upgrade: Version to find out if there is an updated firmware; if so, download the new firmware to your hard drive.
- Browse: After you have downloaded the new firmware, click Browse to locate the firmware update on your hard drive. Click Upload to complete the firmware upgrade.
- Notifications Check Automatically Check Online for Latest Options: Firmware Version to have the router check automatically to see if there is a new firmware upgrade.

Check **Email Notification of Newer Firmware Version** to have the router send an email when there is a new firmware available.



### DDNS

The DDNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter in your domain name to connect to your server no matter what your IP address is.

- **DDNS:** Dynamic Domain Name System is a method of keeping a domain name linked to a changing IP Address. Check the box to enable DDNS.
- Server Address: Choose your DDNS provider from the drop down menu.
  - Host Name: Enter the Host Name that you registered with your DDNS service provider.
- Username or Key: Enter the Username for your DDNS account.
- Password or Key: Enter the Password for your DDNS account.
  - Timeout: Enter a time (in hours).
    - Status: Displays the current status Connected or Disconnected.



#### System Check

- **Ping Test:** The Ping Test is used to send Ping packets to test if a computer is on the Internet. Enter the IP Address that you wish to Ping, and click **Ping**.
- **Ping Results:** The results of your ping attempts will be displayed here.

D-Lin	ĸ				
DIR-628	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	PING TEST	Helpful Hints			
TIME	Ping Test sends "ping	"Ping" checks whether			
SYSLOG	<u></u>		a computer on the Internet is running and responding. Enter either the IP address of		
EMAIL SETTINGS	PING TEST				
SYSTEM	Host Name or IP	the target computer or enter its fully qualified			
FIRMWARE					domain name.
DYNAMIC DNS	PING RESULT	More			
SYSTEM CHECK	Enter a host name or				
SCHEDULES					
WIRELESS					

### Schedules

- Name: Enter a name for your new schedule.
- **Days:** Select a day, a range of days, or All Week to include every day.
- Time: Check All Day 24hrs or enter a start and end time for your schedule.
- Save: Click Save to save your schedule. You must click Save Settings at the top for your schedules to go into effect.
- Schedule RulesThe list of schedules will be listed here. Click the<br/>List: Edit icon to make changes or click the Delete<br/>icon to remove the schedule.

R-628 ///	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT			
IIN	SCHEDULES	SCHEDULES						
E .OG	The Schedule configue parental control feature	ration option is us res.	ed to manage schedule rules	for various firewall and	Schedules are use with a number of features to define			
IL SETTINGS	ADD SCHEDULE R	JLE			are in effect.			
IWARE AMIC DNS EM CHECK EDULES	Name Day(s All Day - 24 hr Start Time End Time	a:     All Week       Sun     M       a:     D       a:     D       a:     12       a:     12       a:     12       ciencia     Clear	Select Day(s) on Tue Wed AM (hour:minu AM (hour:minu ar	Thu 🔲 Fri 📄 Sat ute, 12 hour time) ute, 12 hour time)	Give each schedu name that is mea to you. For exam schedule for Mor through Friday fr 3:00pm to 9:00p might be called " School". Click <b>Save</b> to ad completed sched the list below.			
	SCHEDULE RULES	LIST			Click the Edit ico change an existin			
	Name	Day(s)	Time Frame		Click the <b>Delete</b> i permanently dele schedule.			

### **Device Information**

This page displays the current information for the DIR-628. It will display the LAN, WAN (Internet), and Wireless information.

If your Internet connection is set up for a Dynamic IP address then a **Release** button and a **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP.

If your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

**General:** Displays the router's time and firmware version.

- WAN: Displays the MAC address and the public IP settings for the router.
- LAN: Displays the MAC address and the private (local) IP settings for the router.
- Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.
- LAN Computers: Displays computers and devices that are connected to the router via Ethernet and that are receiving an IP address assigned by the router (DHCP).

DEVICE INFORMATION All of your internet and network connection details are displayed on this pression is also displayed here. GENERAL Time : Saturday, January 31, 2004 12:08:28 PM Firmware Version : 1.00, 2008/03/12	Al of your LAN come are display More				
All of your internet and network connection details are displayed on this prversion is also displayed here.  GENERAL  Time : Saturday, January 31, 2004 12:08:28 PM Firmware Version : 1.00, 2008/03/12	Al of your LAN conne are display. More				
Version is also displayed here.  GENERAL  Time : Saturday, January 31, 2004 12:08:28 PM Firmware Version : 1.00, 2008/03/12	More				
GENERAL Time : Saturday, January 31, 2004 12:08:28 Pk Firmware Version : 1.00, 2008/03/12	More				
GENERAL Time : Saturday, January 31, 2004 12:08:28 Ph Firmware Version : 1.00, 2008/03/12	More				
Time : Saturday, January 31, 2004 12:08:28 PM Firmware Version : 1.00, 2008/03/12	6				
Firmware Version : 1.00, 2008/03/12					
WAN					
Connection Type : DHCP Clent					
Cable Status : Connected					
Network Status : Established					
Connection Up Time: 2 Days, 21:28:15					
Renew					
MAC Address: 00:03:64:00:01:23					
IP Address : 192.168.69.101					
Subnet Mask: 255.255.255.0					
Default Gateway: 192.168.69.1					
Primary DNS Server : 192.152.81.1					
Secondary DNS Server: 67.130.140.2					
LAN					
MAC Address : 00:03:64:00:01:24					
IP Address : 192.168.0.1					
Subnet Mask : 255.255.255.0					
WIRELESS LAN					
Wireless Radio : Enabled					
MAC Address : 00:1E:58:2D:00:C2					
Channel: 36					
Security Mode : WEP					
Wi-Fi Protected Setup : Enabled/Configured					
LAN COMPUTERS					
IP Address Name (if any) MAC					
192.168.0.197 PMLab16 00:0c:f1:fe:ee:	cd				

# Log

The router automatically logs (records) events of possible interest in it's internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. The Logs option allows you to view the router logs. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

- What to View: You can select the types of messages that you want to display from the log. Firewall & Security, System, and Router Status messages can be selected.
- View Levels: There are three levels of message importance: Informational, Warning, and Critical. Select the levels that you want displayed in the log.
  - Apply Log Will filter the log results so that only the selected **Settings:** options appear.
  - **Refresh:** Updates the log details on the screen so it displays any recent activity.

**Clear:** Clears all of the log contents.

- **Email Now:** This option will send a copy of the router log to the email address configured in the Tools > Email screen.
- Save Log: This option will save the router to a log file on your computer.

5	ETUP	ADVANCED	TOOLS	STATUS	SUPPORT				
LOGS	LOGS								
Use th view a can se	Use this option to view the router logs. You can define what types of events you want to view and the event levels to view. This router also has internal syslog server support so you can send the log files to a computer on your network that is running a syslog utility.								
LOG O	PTIONS What t	to <b>View :</b> 📝 Firewall &	Security 🗹 System 🖪	Router Status	You can also have th log mailed to you periodically. Refer to Tools EMail.				
	View	Apply Log Set	Warning Kings Now	Informational	More				
Priorit	y Time	Message	Entries:						
[WARN	Sat Jan 31 ] 12:05:37	Blocked packet from 19 Attack)	3.69.101 (LAND						
[INFO]	Sat Jan 31 12:01:02 2004	Above message repeate							
[INFO]	Sat Jan 31 12:00:08 2004	Blocked incoming TCP p 192.168.69.101:49567 connection							
[WARN	Sat Jan 31 ] 11:56:36 2004	Blocked packet from 19 Attack)	2.168.69.101 to 192.168	3.69.101 (LAND					
[INFO]	Sat Jan 31 11:47:32 2004	Above message repeate							
[INFO]	Sat Jan 31         Blocked incoming TCP packet from 63.111.24.33:80 to           [INFO]         11:43:56         192.168.69.101:1202 as SYN:ACK received but there is no active connection								
[WARN	Sat Jan 31 ] 11:43:06	Blocked packet from 19 Attack)							

#### **Stats**

The screen below displays the Traffic Statistics. Here you can view the amount of packets that pass through the DIR-628 on both the WAN and the LAN ports. The traffic counter will reset if the device is rebooted.



# **Internet Sessions**

The Internet Sessions page displays full details of active Internet sessions through your router. An Internet session is a conversation between a program or application on a LAN-side computer and a program or application on a WAN-side computer.

- Local: The IP address and, where appropriate, port number of the local application.
- NAT: The port number of the LAN-side application as viewed by the WAN-side application.
- Internet: The IP address and, where appropriate, port number of the application on the Internet.
- **Protocol:** The communications protocol used for the conversation.
  - State: State for sessions that use the TCP protocol:

**NO: None** -- This entry is used as a placeholder for a future connection that may occur.

**SS: SYN Sent** -- One of the systems is attempting to start a connection.

**EST: Established** -- the connection is passing data.

FW: FIN Wait -- The client system has requested that the connection be stopped.

CW: Close Wait -- The server system has requested that the connection be stopped.

DIR

DEVI LOGS STAT

TW: Time Wait -- Waiting for a short time while a connection that was in FIN Wait is fully closed.

LA: Last ACK -- Waiting for a short time while a connection that was in Close Wait is fully closed.

**CL: Closed** -- The connection is no longer active but the session is being tracked in case there are any retransmitted packets still pending.

628 ///	SETUP	SETUP ADVANCED TOOLS		l l		ST	ATUS	SUPPORT	
E INFO	INTERNET SESSION	IS						Helpful Hints	
STICS	This page displays the full details of active internet sessions to your router.							This is a list of all active conversations between	
INET SESSIONS	Local	NAT	Internet	Protocol	State	Dir	Priority	Time Out	LAN computers.
IESS	192.168.0.197:50597	50597	66.199.250.170:8911	TCP	SS	Out	128	238	-
	192.168.0.197:50596	50596	72.51.37.237:8899	ТСР	SS	Out	128	238	riore
	192.168.0.197:50595	50595	219.239.90.172:28221	TCP	SS	Out	128	238	
	192.168.0.197:50594	50594	80.252.110.146:4661	TCP	SS	Out	128	238	
	192.168.0.197:41787	41787	80.239.200.102:3004	UDP	-	Out	128	293	
	192.168.0.197:41787	41787	80.239.200.104:3004	UDP	-	Out	128	283	
	192.168.0.197:41787	41787	222.186.190.39:4073	UDP	-	Out	128	279	
	192.168.0.197:41787	41787	80.239.200.109:3004	UDP	-	Out	128	278	
	192.168.0.197:50591	50591	60.28.197.35:28221	ТСР	SS	Out	128	226	
	192.168.0.197:41787	41787	72.51.37.107:9127	UDP	-	Out	128	273	
	192.168.0.197:50589	50589	72.51.37.237:8899	тср	SS	Out	128	221	
	192.168.0.197:50590	50590	66.199.250.170:8911	ТСР	SS	Out	128	221	
	192.168.0.197:50587	50587	80.252.110.146:4661	TCP	SS	Out	128	221	
	192.168.0.197:50588	50588	219.239.90.172:28221	ТСР	SS	Out	128	221	
	192.168.0.197:41787	41787	62.241.53.4:4246	UDP	-	Out	128	272	
	192.168.0.197:41787	41787	62.241.53.2:4246	UDP	-	Out	128	269	
	192.168.0.197:41787	41787	80.239.200.99:3004	UDP	- (	Out	128	265	
	192.168.0.197:41787	41787	80.239.200.103:3004	UDP	-	Out	128	258	
	192.168.0.197:41787	41787	62.241.53.16:4246	UDP	-	Out	128	254	

**Dir:** The direction of initiation of the conversation:

**Out** - Initiated from LAN to WAN. **In** - Initiated from WAN to LAN.

- Priority: The preference given to outbound packets of this conversation by the QoS Engine logic. Smaller numbers represent higher priority.
- **Time Out:** The number of seconds of idle time until the router considers the session terminated. The initial value of Time Out depends on the type and state of the connection.

300 seconds - UDP connections.

**240 seconds** - Reset or closed TCP connections. The connection does not close instantly so that lingering packets can pass or the connection can be re-established.

**7800 seconds** - Established or closing TCP connections.