

ETISALAT Plug & Play Firmware

D-link DIR-868L

User Manual



Wireless AC1750 Dual Band
Gigabit Router

System Requirements

Network Requirements

- An Ethernet-based cable or DSL modem
- IEEE 802.11ac/n/g/b/a wireless clients
- 10/100/1000 Mbps Ethernet

Web-based Configuration

Utility Requirements

Computer with the following:

- Windows®, Macintosh, or Linux-based operating system
- An installed Ethernet adapter

Browser Requirements:

- Internet Explorer 7 or higher
- Firefox 12 or higher
- Safari 4 or higher
- Chrome 20 or higher

Windows® Users: Make sure you have the latest version of Java Installed. Visit www.java.com to download the latest version.

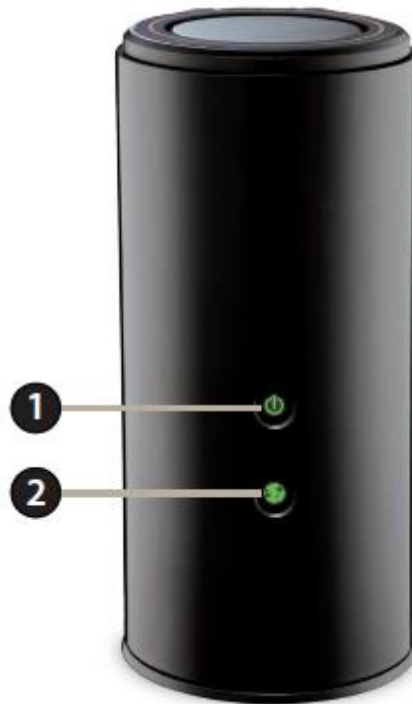
mydlink Requirements

- iPhone/iPad/iPod touch (iOS 4.3 or higher)
- Android device (2.3.3 or higher)
- Computer with the following browser requirements:
 - Internet Explorer 7 or higher
 - Firefox 12 or higher
 - Safari 5 or higher
 - Chrome 20 or higher

iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc.

Hardware Overview

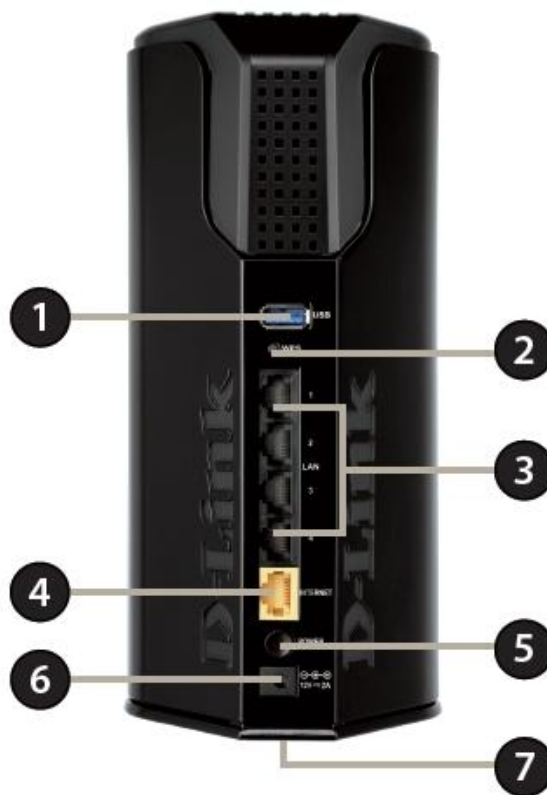
LEDs



| | | |
|---|---------------------|---|
| 1 | Power LED | A solid green light indicates a proper connection to the power supply. The light will blink green during the WPS process. The light will light solid orange during boot up. |
| 2 | Internet LED | A solid light indicates connection on the Internet port. If the LED is orange, the connection is good but the router cannot connect to the Internet. |

Hardware Overview

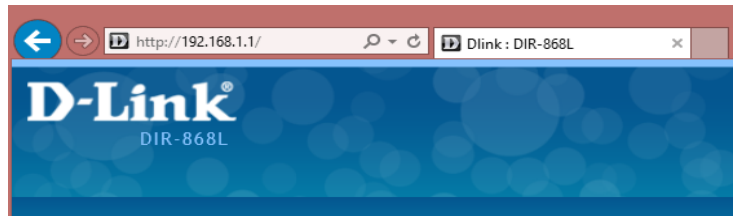
Connections



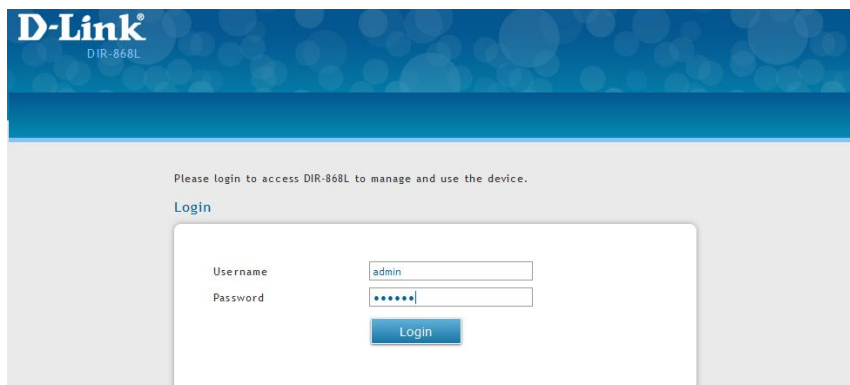
| | | |
|---|--------------------------------|--|
| 1 | USB 3.0 Port | Connect a USB flash drive to share content , or connect it to a USB printer to share it on your network. |
| 2 | WPS Button | Press to start the WPS process and automatically create a secure connection to a WPS client. |
| 3 | Gigabit LAN Ports (1-4) | Connect Ethernet devices such as computers, switches, storage (NAS) devices and game consoles. |
| 4 | Gigabit Internet Port | Using an Ethernet cable, connect your broadband modem to this port. |
| 5 | Power Button | Press the power button to power on and off. |
| 6 | Power Receptor | Receptor for the supplied power adapter. |
| 7 | Reset Button | Insert a paperclip in the hole for several seconds to reset the router to default settings. |

Admin Login Page

If this is your first time installing the router, open your web browser and, enter The IP address of the router (default: <http://192.168.1.1>)



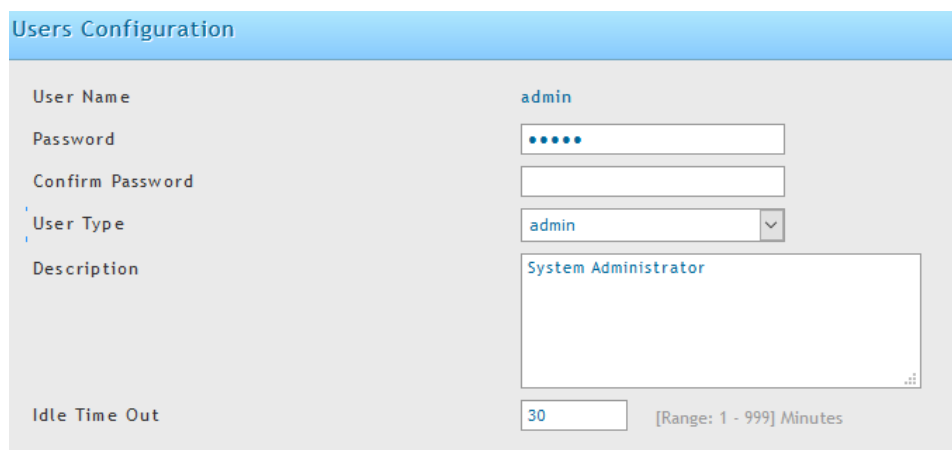
- a. Give the default Username and Password to login to the router (*Username and Password will be mentioned on the sticker at the back of your router*)

A screenshot of the D-Link DIR-868L login page. The page has a blue header with the D-Link logo and 'DIR-868L'. Below the header, there is a message: 'Please login to access DIR-868L to manage and use the device.' Underneath, there is a 'Login' section with a form. The form has two input fields: 'Username' with the value 'admin' and 'Password' with five dots. A blue 'Login' button is positioned below the password field.

Note: If no admin password mentioned, use “admin” as username and password.

- b. To Change “admin” password

Go to Administration » Users and edit admin.

A screenshot of the 'Users Configuration' page in the D-Link web interface. The page has a blue header with the title 'Users Configuration'. Below the header, there is a form with several fields: 'User Name' with the value 'admin', 'Password' with five dots, 'Confirm Password' (empty), 'User Type' with a dropdown menu showing 'admin', and 'Description' with the text 'System Administrator'. At the bottom, there is an 'Idle Time Out' field with the value '30' and a note '[Range: 1 - 999] Minutes'.

1) WAN Setting (Setup INTERNET Connection)

To configure wan settings,

Go to **Network » WAN » WAN IPv4 Configuration**

a) **Connection Mode – Auto via ACS (For ETISALAT Plug & Play Connection)**

**All configuration including username, password and Vlan Id information will be pushed by Etisalat ACS.*

The screenshot displays the WAN IPv4 Configuration page in a network management interface. The page is titled "WAN IPv4 Configuration" and is part of the "Network" section. The interface includes a top navigation bar with tabs for Status, Network, Wireless, Security, and Administration. A sidebar menu on the left shows the current path: Network » WAN » WAN IPv4 Configuration. The main content area is divided into sections for configuration:

- ISP Connection Type:** ISP Connection Type is set to "PPPoE (Username/Password)".
- Connection Mode:** Connection Mode is set to "Auto via ACS".
- User Name:** User Name is "dlinkme3".
- Password:** Password is masked with dots.
- VLAN enable:** VLAN enable is set to "ON".
- VLAN ID:** VLAN ID is "2" (Range: 2 to 4093).
- MAC Address:** MAC Address Source is "Use Default MAC".

At the bottom of the configuration area, there are "Save" and "Cancel" buttons. A navigation menu is overlaid on the page, showing options for LAN, WAN, QoS, Routing, and Advanced settings.

b) ISP Connection type - PPPoE (Manual)

Give the Username and Password provided by your ISP in the User Name and Password column and save the settings, enable Vlan only if it is required by ISP.

The screenshot shows the WAN IPv4 Configuration page in a network management interface. The page has a blue header with navigation tabs: Status, Network, Wireless, Security, and Administration. The breadcrumb trail is Network » WAN » WAN IPv4 Configuration. A search bar is visible in the top right corner.

The main content area is titled "WAN IPv4 Configuration" and contains the following settings:

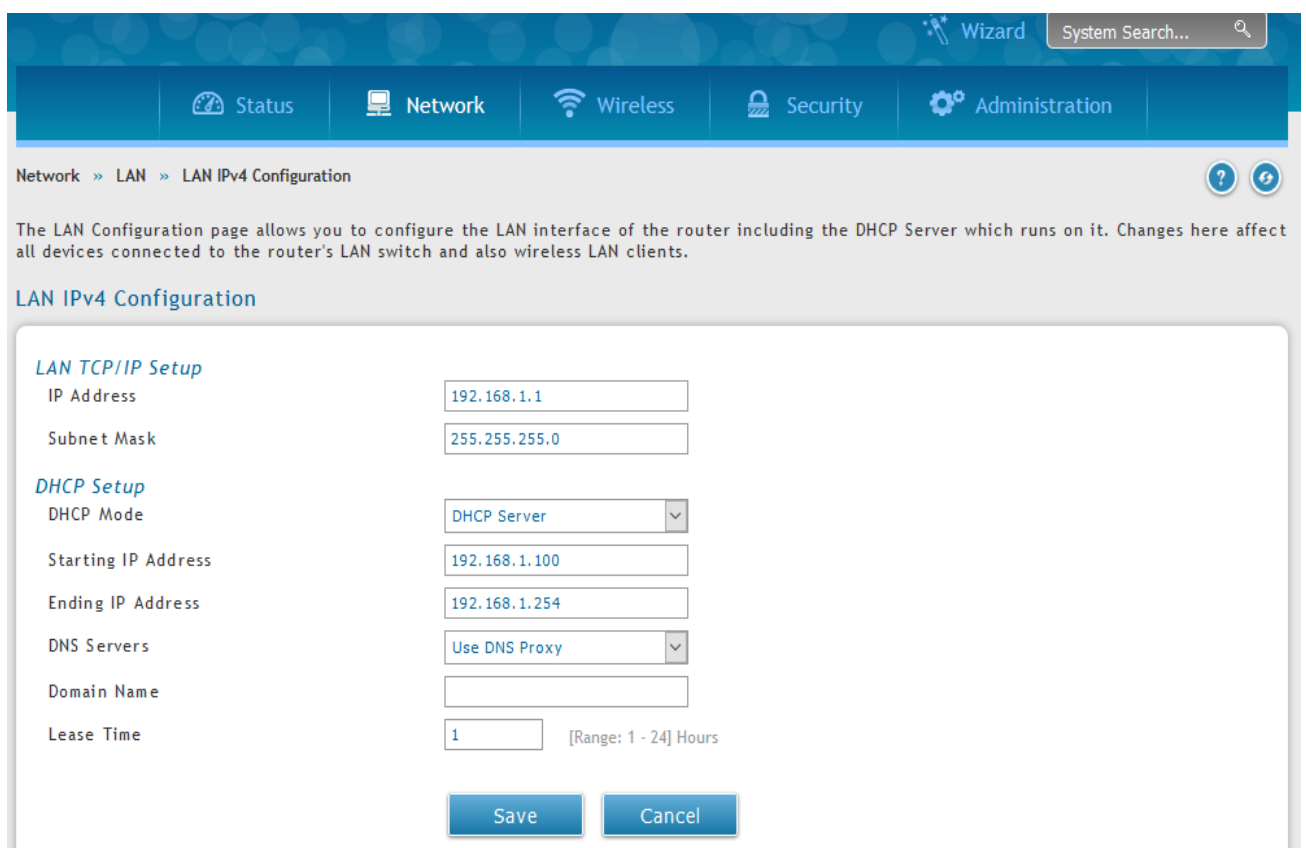
- ISP Connection Type**
 - ISP Connection Type: PPPoE (Username/Password) (dropdown)
 - Connection Mode: Manual configuration (dropdown)
 - User Name: username (text input)
 - Password: [masked with dots] (password input)
 - Service: [empty] (text input) (Optional)
 - Authentication Type: Auto-negotiate (dropdown)
 - Reconnect Mode: Always On On Demand
- Domain Name System (DNS) Servers**
 - DNS Server Source: Get Dynamically from ISP (dropdown)
 - VLAN enable: ON (checkbox)
 - VLAN ID: 2 (text input) [Range: 2 to 4093]
- MAC Address**
 - MAC Address Source: Use Default MAC (dropdown)

2) LAN Setting & DHCP

To change lan setting and DHCP ,

Go to Network » LAN » LAN IPv4 Configuration

. By default the IP address is 192.168.1.1 & DHCP Pool is 100 ~254



The screenshot shows the LAN IPv4 Configuration page in a router's web interface. The page has a blue header with navigation tabs: Status, Network, Wireless, Security, and Administration. The current page is "LAN IPv4 Configuration". Below the header, there is a breadcrumb trail: Network » LAN » LAN IPv4 Configuration. A description states: "The LAN Configuration page allows you to configure the LAN interface of the router including the DHCP Server which runs on it. Changes here affect all devices connected to the router's LAN switch and also wireless LAN clients." The configuration section is titled "LAN IPv4 Configuration" and contains two sub-sections: "LAN TCP/IP Setup" and "DHCP Setup".

| | |
|-------------------------|--|
| LAN TCP/IP Setup | |
| IP Address | <input type="text" value="192.168.1.1"/> |
| Subnet Mask | <input type="text" value="255.255.255.0"/> |
| DHCP Setup | |
| DHCP Mode | <input type="text" value="DHCP Server"/> |
| Starting IP Address | <input type="text" value="192.168.1.100"/> |
| Ending IP Address | <input type="text" value="192.168.1.254"/> |
| DNS Servers | <input type="text" value="Use DNS Proxy"/> |
| Domain Name | <input type="text"/> |
| Lease Time | <input type="text" value="1"/> [Range: 1 - 24] Hours |

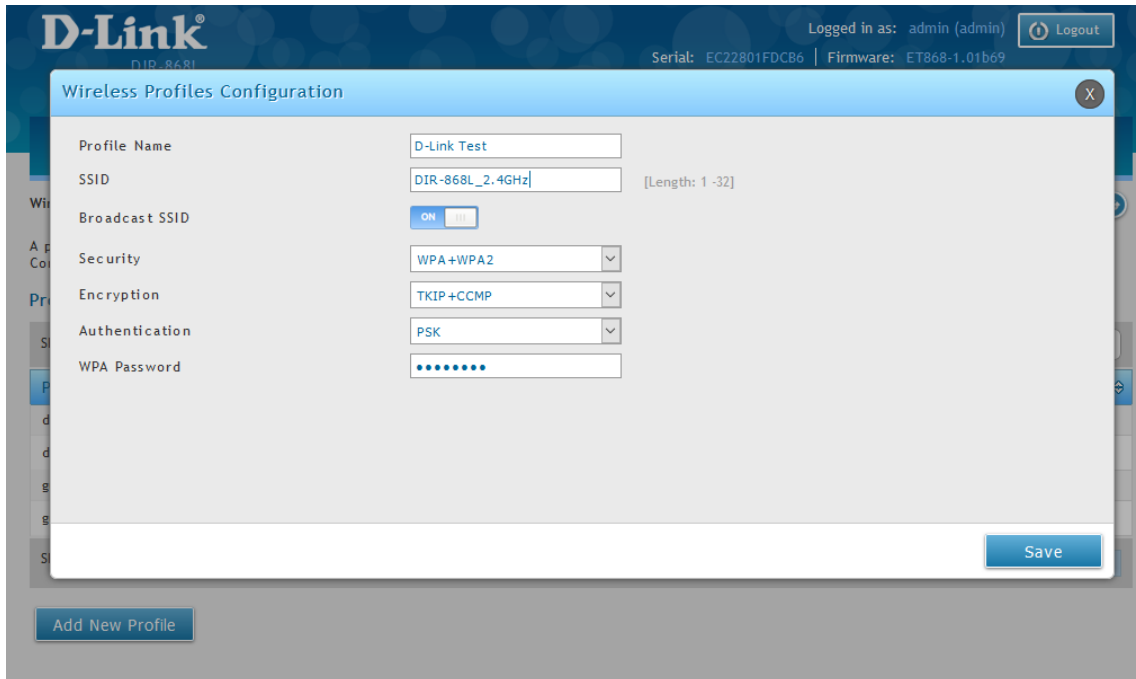
At the bottom of the configuration section, there are two buttons: "Save" and "Cancel".

3) Wireless Configuration

Go to [Wireless » Profiles](#)

Then Right click and Edit 2.4GHz or 5GHz to change the SSID and Security.

a. 2.4 GHz

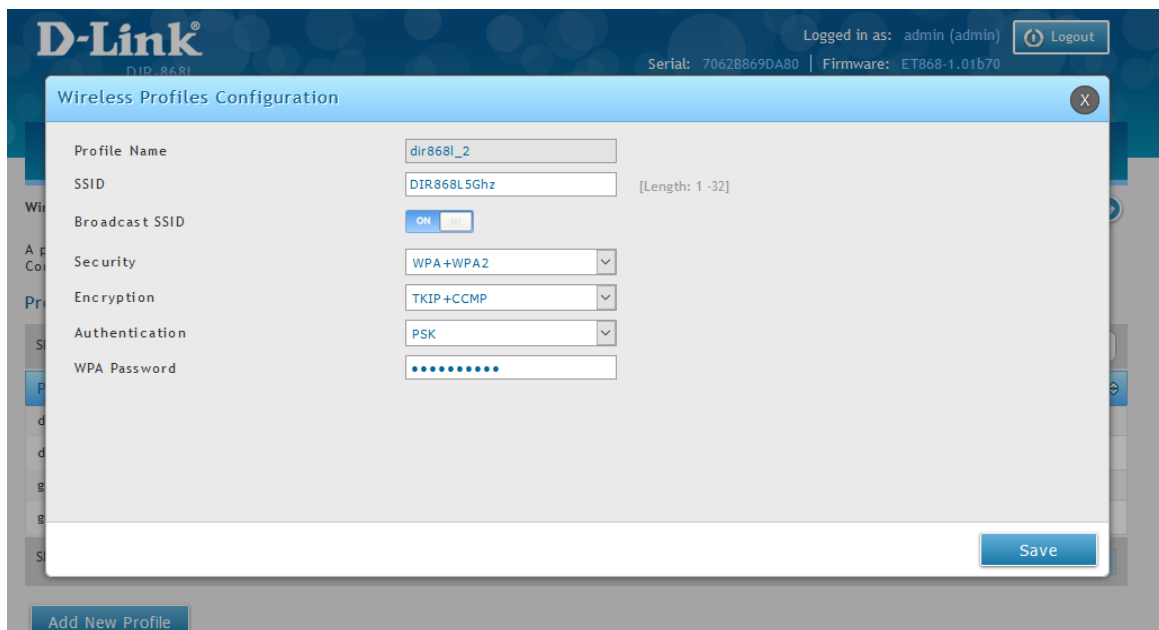


The screenshot shows the D-Link Wireless Profiles Configuration dialog box. The background shows the D-Link logo and user information: "Logged in as: admin (admin)", "Serial: EC22801FDCB6", and "Firmware: ET868-1.01b69". The dialog box has a title bar "Wireless Profiles Configuration" and a close button (X). The form fields are as follows:

| | |
|----------------|--|
| Profile Name | <input type="text" value="D-Link Test"/> |
| SSID | <input type="text" value="DIR-868L_2.4GHz"/> [Length: 1 -32] |
| Broadcast SSID | <input checked="" type="checkbox"/> ON |
| Security | <input type="text" value="WPA+WPA2"/> |
| Encryption | <input type="text" value="TKIP+CCMP"/> |
| Authentication | <input type="text" value="PSK"/> |
| WPA Password | <input type="password" value="••••••••"/> |

At the bottom right of the dialog is a "Save" button. At the bottom left of the background page is an "Add New Profile" button.

b. 11AC 5 GHz



The screenshot shows the D-Link Wireless Profiles Configuration dialog box. The background shows the D-Link logo and user information: "Logged in as: admin (admin)", "Serial: 7062B869DA80", and "Firmware: ET868-1.01b70". The dialog box has a title bar "Wireless Profiles Configuration" and a close button (X). The form fields are as follows:

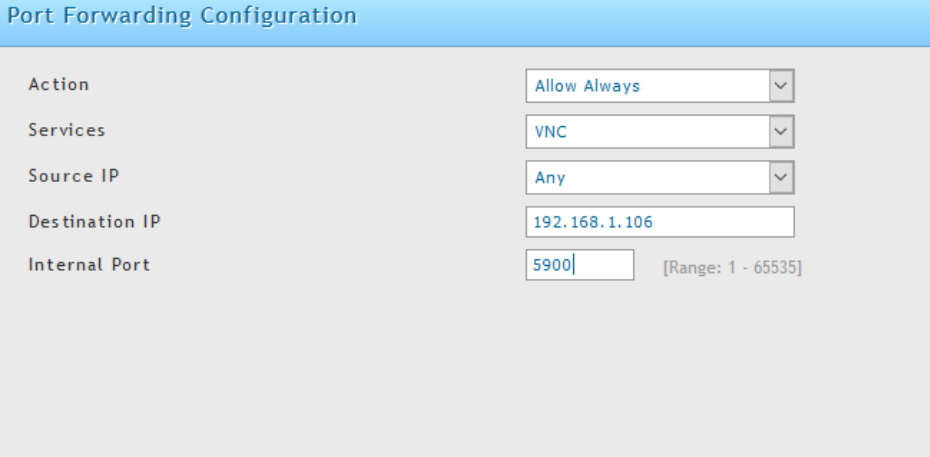
| | |
|----------------|--|
| Profile Name | <input type="text" value="dir868l_2"/> |
| SSID | <input type="text" value="DIR868L5Ghz"/> [Length: 1 -32] |
| Broadcast SSID | <input checked="" type="checkbox"/> ON |
| Security | <input type="text" value="WPA+WPA2"/> |
| Encryption | <input type="text" value="TKIP+CCMP"/> |
| Authentication | <input type="text" value="PSK"/> |
| WPA Password | <input type="password" value="••••••••"/> |

At the bottom right of the dialog is a "Save" button. At the bottom left of the background page is an "Add New Profile" button.

4) Port Forwarding

- a. To create port forwarding rules ,

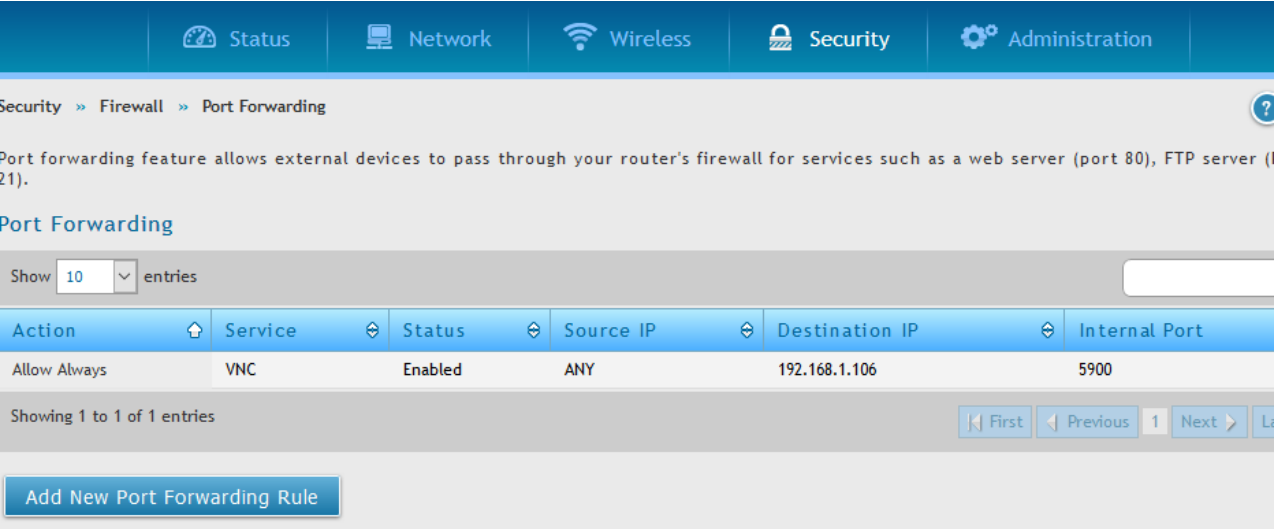
Go to **Security » Firewall » Port Forwarding** and then “Add New Port Forwarding Rule”,



The screenshot shows the 'Port Forwarding Configuration' form with the following fields:

- Action: Allow Always (dropdown)
- Services: VNC (dropdown)
- Source IP: Any (dropdown)
- Destination IP: 192.168.1.106 (text input)
- Internal Port: 5900 (text input) [Range: 1 - 65535]

- You can choose the predefined services or the added custom services.



The screenshot shows the router's web interface with the following elements:

- Navigation tabs: Status, Network, Wireless, Security, Administration.
- Breadcrumbs: Security » Firewall » Port Forwarding.
- Introductory text: Port forwarding feature allows external devices to pass through your router's firewall for services such as a web server (port 80), FTP server (port 21).
- Section title: Port Forwarding.
- Filter: Show 10 entries.
- Table of port forwarding rules:

| Action | Service | Status | Source IP | Destination IP | Internal Port |
|--------------|---------|---------|-----------|----------------|---------------|
| Allow Always | VNC | Enabled | ANY | 192.168.1.106 | 5900 |

Showing 1 to 1 of 1 entries

Buttons: First, Previous, 1, Next, Last

Button: Add New Port Forwarding Rule

b. Custom services

Go to **Security» Firewall » Custom Services** and “Add New Custom Service”,

*Custom service is required if the service is not listed on the available services.

Custom Services Configuration

| | |
|-------------|--|
| Name | <input type="text" value="VNC"/> |
| Type | <input type="text" value="TCP"/> |
| Port Type | <input type="text" value="Port Range"/> |
| Start Port | <input type="text" value="5900"/> [Range: 1 - 65535] |
| Finish Port | <input type="text" value="5900"/> [Range: 1 - 65535] |

Status Network Wireless Security Administration

Security » Firewall » Custom Services

When you create a firewall rule, you can specify a service that is controlled by the rule. Common types of services are available for selection, and you can create your own custom services. This page allows creation of custom services against which firewall rules can be defined. Once defined, the new service will appear in the List of Available Custom Services table.

Custom Services

Show entries

| Name | Type | ICMP Type / Port Range / MultiPorts |
|------|------|-------------------------------------|
| VNC | TCP | 5900-5900 |

Showing 1 to 1 of 1 entries

[Add New Custom Service](#)

5) Firewall Rules

To add firewall rule to allow or deny network access, **go to Security » Firewall » Firewall Rules IPv4** and “Add New IPv4 Firewall Rule”,

IPv4 Firewall Rules Configuration

| | |
|-------------------|----------------|
| Service | ANY |
| Action | Block Always |
| Schedule | No Schedule |
| Source Hosts | Single Address |
| From | 192.168.1.106 |
| Destination Hosts | Any |

Navigation: Status | Network | Wireless | Security | Administration

Security » Firewall » Firewall Rules IPv4

A firewall is a security mechanism to selectively block or allow certain types of traffic in accordance with rules specified by network administrators. You can use this page to manage the firewall rules that control traffic to and from your network. The List of Available Firewall Rules table includes all firewall rules for this device and allows several operations on the firewall rules.

Firewall Rules

Show 10 entries

| Status | Service | Action | Schedule | Source Hosts | Destination Hosts |
|---------|---------|--------------|-------------|---------------|-------------------|
| Enabled | ANY | Block Always | No Schedule | 192.168.1.106 | ANY |

Showing 1 to 1 of 1 entries

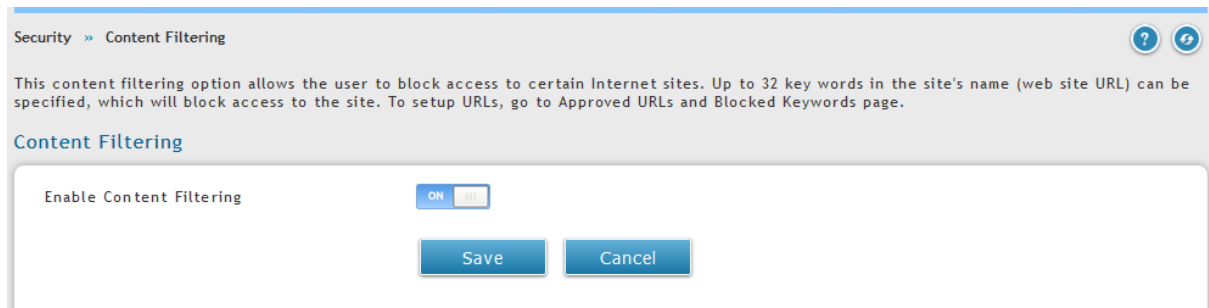
Navigation: First | Previous | 1 | Next | Last

[Add New IPv4 Firewall Rule](#)

6) Parental Control

First Enable Content Filtering

Go to Security » Content Filtering



Security » Content Filtering

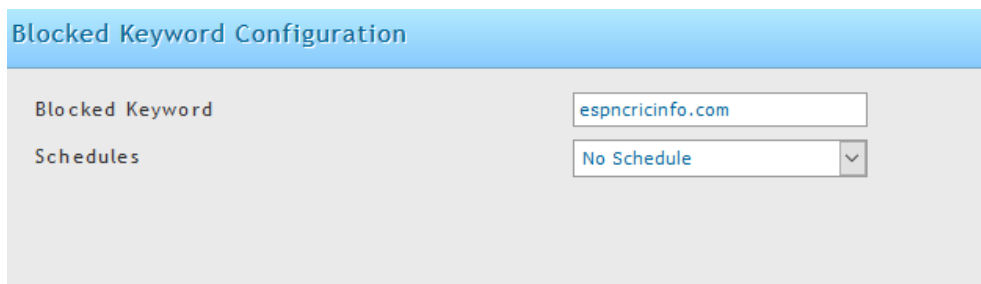
This content filtering option allows the user to block access to certain Internet sites. Up to 32 key words in the site's name (web site URL) can be specified, which will block access to the site. To setup URLs, go to Approved URLs and Blocked Keywords page.

Content Filtering

Enable Content Filtering

[Save](#) [Cancel](#)

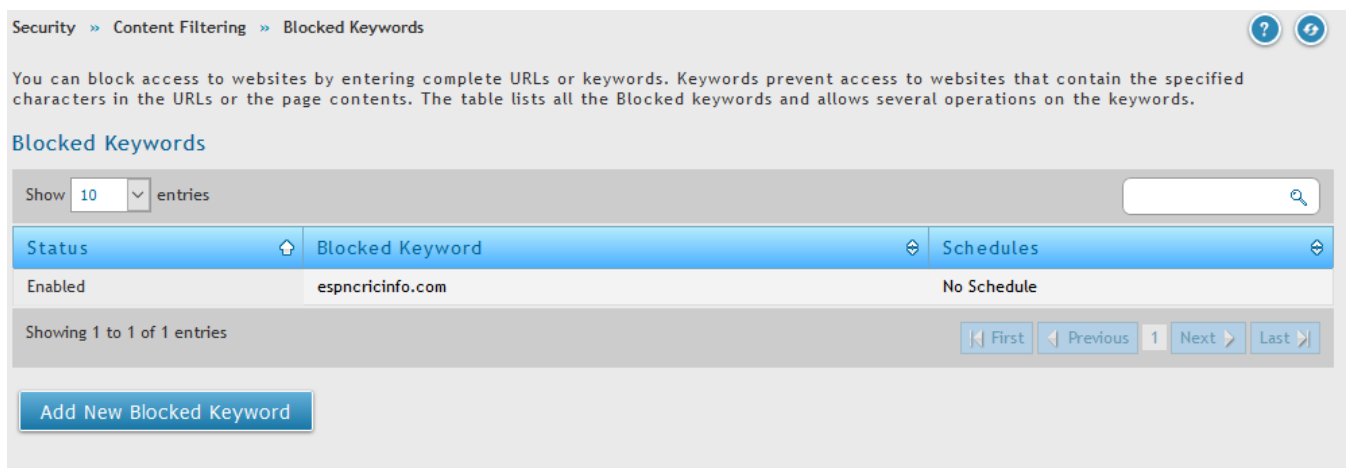
Then **Go to Security » Content Filtering » Blocked Keywords** and “ Add New Blocked Keyword” ,



Blocked Keyword Configuration

Blocked Keyword

Schedules



Security » Content Filtering » Blocked Keywords

You can block access to websites by entering complete URLs or keywords. Keywords prevent access to websites that contain the specified characters in the URLs or the page contents. The table lists all the Blocked keywords and allows several operations on the keywords.

Blocked Keywords

Show entries

| Status | Blocked Keyword | Schedules |
|---------|-------------------|-------------|
| Enabled | espnrcricinfo.com | No Schedule |

Showing 1 to 1 of 1 entries [First](#) [Previous](#) 1 [Next](#) [Last](#)

[Add New Blocked Keyword](#)

We can also Schedule the URL blocking,

Go to Security » Firewall » Schedules and “Add New Schedule “,

The screenshot shows the 'Schedule Configuration' page. It includes the following fields and options:

- Schedule Name:** A text input field containing 'Work'.
- Time of Day:** A dropdown menu set to 'Custom'.
- Start Time:** A text input field containing '07:30 AM'. Below it is a digital clock interface with buttons for HH (07), MM (30), and AM/PM (AM).
- End Time:** A text input field containing '04:30 PM'. Below it is a digital clock interface with buttons for HH (04), MM (30), and AM/PM (PM).

The screenshot shows the 'Schedules' page under 'Security » Firewall » Schedules'. It includes a search bar and a table of available schedules.

When you create a firewall rule, you can specify a schedule when the rule applies. The table lists all the Available Schedules for this device and allows several operations on the Schedules.

Schedules

Show 10 entries

| Name | Day of Week | Time of Day |
|------|---------------------|---------------------|
| Work | Mon,Tue,Wed,Thu,Sun | 07:30 AM - 04:30 PM |

Showing 1 to 1 of 1 entries

Buttons: First, Previous, 1, Next, Last

Add New Schedule

Then Go to Security » Content Filtering and Select the schedule you have created ,

The screenshot shows the 'Blocked Keywords' page under 'Security » Content Filtering » Blocked Keywords'. It includes a search bar and a table of blocked keywords.

You can block access to websites by entering complete URLs or keywords. Keywords prevent access to websites that contain the specified characters in the URLs or the page contents. The table lists all the Blocked keywords and allows several operations on the keywords.

Blocked Keywords

Show 10 entries

| Status | Blocked Keyword | Schedules |
|---------|-----------------|-----------|
| Enabled | espnrcinfo.com | Work |

Showing 1 to 1 of 1 entries

Buttons: First, Previous, 1, Next, Last

Add New Blocked Keyword

7) Dynamic DNS

To enable Dynamic DNS **Go to Network » Advanced » DDNS**

Network » Advanced » DDNS

Dynamic DNS (DDNS) is an Internet service that allows routers with varying public IP addresses to be accessed. To use DDNS, you must setup an account with a DDNS provider such as DynDNS.com, DlinkDDNS.com

DDNS

| | |
|--------------------------------|--|
| Network Name | Internet |
| Select the Dynamic DNS Service | dyndns.org |
| Status | |
| Server Address | dyndns.org |
| Host and Domain Name | Dlink |
| Username | dir |
| Password | ••• |
| Confirm Password | |
| Use Wildcards | <input type="checkbox"/> OFF |
| Update Period | <input type="checkbox"/> OFF [30] Days |

8) To Reset & Reboot the router

Go to Administration » Firmware » Backup/Restore

D-Link
DIR-868L

Logged in as: admin (admin)

Serial: 7062B869DA80 | Firmware: ET868-1.01b70

Wizard System Search...

Status Network Wireless Security Administration

Administration » Firmware » Backup / Restore

This page allows user to do configuration related operations which includes backup, restore and factory default. This page also allows user to reboot the router.

Backup / Restore

| | |
|--------------------------|--|
| Save Current Settings | <input type="button" value="Backup"/> |
| Restore Saved Settings | <input type="button" value="Browse..."/> No file selected. |
| | <input type="button" value="Restore"/> |
| Factory Default settings | <input type="button" value="Default"/> |
| Reboot | <input type="button" value="Reboot"/> |

-----END-----