

# IPv6

## Local IPv6 Address

**Mode of local IPv6 address assignment:** Select **Static** or **Prefix delegation** as the means of acquiring a local IPv6 address.

**IP Address:** If **Static** has been selected, specify the static IPv6 address of the router. The default IPv6 address is **fd01::1**. If you change the IP address, once you click **Apply**, you may need to enter the new IP address in your browser to access the configuration utility.

**Prefix:** Specify the IPv6 prefix of the router. The default prefix is **64**.

**Gateway IP Address:** *For Access Point, Repeater, and Client modes only.* Specify the gateway IP address which is used by the router to connect to the internet. (Optional)

## Dynamic IPv6 Addresses

**Mode of Dynamic IPv6 address assignment:** Select **Disable**, **Stateful**, or **Stateless**.

**Start IPv6:** If **Stateful** has been selected, specify the starting IP address in the DHCP server pool.

**End IPv6:** If **Stateful** has been selected, specify the end IP address in the DHCP server pool.

**Lease Time:** If **Stateful** or **Stateless** has been selected, specify the lease time in minutes for dynamic IPv6 addresses.

Click **Apply** when you are done.

D-Link DIR-615 FW:3.0.2

Home Settings Functions Management

Settings >> Network

IPv4 IPv6

Local IPv6 Address

Mode of local IPv6 address assignment  
Prefix delegation

IPv6 address  
fd01::1

Prefix  
64

Dynamic IPv6 Addresses

Mode of dynamic IPv6 address assignment  
Stateless

Lease time (in minutes)  
5

APPLY

D-Link DIR-615 FW:3.0.2

Home Settings Functions Management

Settings >> Network

IPv4 IPv6

Local IPv6 Address

Mode of local IPv6 address assignment  
Prefix delegation

IPv6 address  
fd01::1

Prefix  
64

Dynamic IPv6 Addresses

Mode of dynamic IPv6 address assignment  
Stateful

Start IPv6  
fd01::2

End IPv6  
fd01::ffff:ffff:ffff

Lease time (in minutes)  
5

Static IP Addresses

KNOWN CLIENTS +

In order to assign an IP address to a MAC address, select a device from the list of connected clients or add a new device

APPLY

## Clients List

**Clients list:** Click the corresponding client(s) on this list to automatically add their information to the Static IP Addresses list.

**Refresh:** Click here to refresh the connected clients list.

Click **OK** to save changes or click the X in the upper right hand corner to cancel changes.

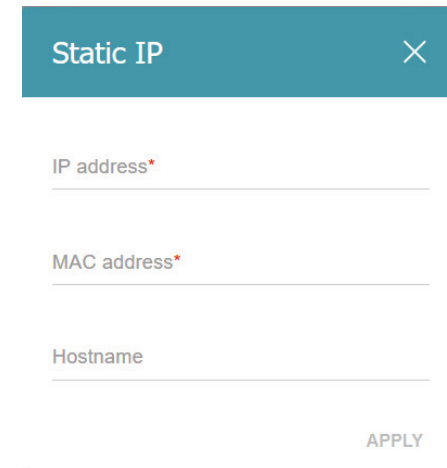
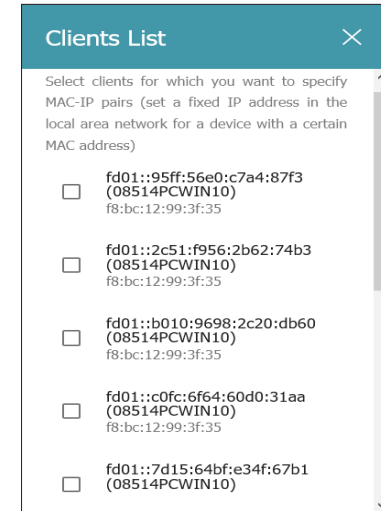
## Add/Static IP Addresses

**IP address:** Specify the IP address you wish to reserve for the given client.

**MAC address:** Specify the MAC address of the client for which the IP address is reserved.

**Hostname:** Specify the Hostname of the client for which the IP address is reserved.

Click **OK** to save changes or click the X in the upper right hand corner to cancel changes.



# Functions

## Firewall

### IP Filter

The IP Filters page manages LAN users' access to the Internet. It is possible to permit access to the Internet for specified IP addresses within your LAN or to restrict access for specified IP addresses. You can also define filters for port access.

The currently defined IP filters are displayed in the table. You may define up to 16 IP filtering rules. If you wish to remove a rule, click the corresponding check box to select it and then click **Delete**. If you wish to create a new rule, click the **Add** button.

#### Filters

**Add:** Click here to add a new filter to the firewall. For details, see **IP Filter Create/Edit** on **page 69**.

**Delete:** If you have a selected one or more filters, click this button to delete the selected filter(s).

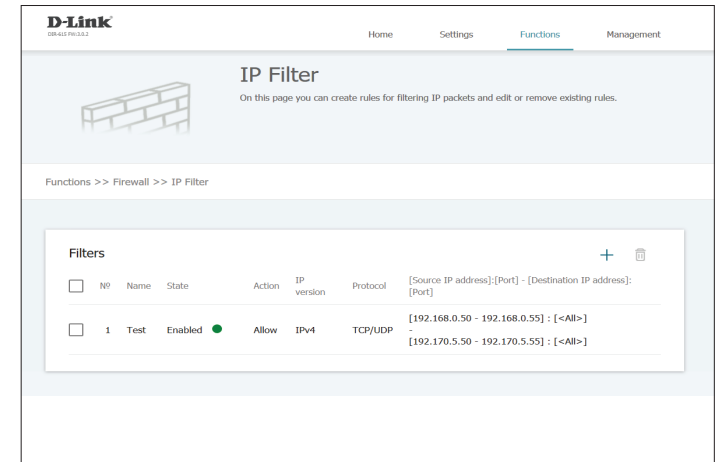
**No:** Indicates the number of the filter.

**Name:** Indicates the name of the filter.

**State:** Indicates whether the is enabled or disabled.

**Action:** Indicates the action taken when the filter is triggered.

**IP version:** Indicate to which IP version the filter applies.



## IP Filter Create/Edit

**Protocol:** Indicates to which protocol(s) the filter applies.

**[Source IP address]** Indicates the IP address range and port(s) to which the filter applies.

### General Settings

**Enable rule:** Toggle this switch to enable the rule.

**Name:** Specify a name for the rule. This name is for reference only and does not affect functionality.

**Action:** Choose the action to be taken when the rule is triggered. Choose **Allow** or **Deny**.

**Protocol:** Choose which protocol to which the rule will apply. Choose from **TCP/UDP**, **TCP**, **UDP**, **ICMP**, or **<All>**

**IP version:** Choose if the rule should apply to **IPv4** or **IPv6**.

### Destination IP Address

**Set as:** Choose **Range or single IP address** to enter a specific IP address or ranges for the destination filter. Choose **Subnet** to specify a subnet only.

**Start/End IPv4/IPv6 address:** If you have selected **Range or single IP address**, specify an IP address range for the destination filter. To enter a single address, use only the **Start IPv4/IPv6 address** field and leave the **End IPv4/IPv6 address** field blank.

**Subnet IPv4/IPv6 address:** If you have selected **Subnet**, specify the destination subnet to filter.

The screenshot shows the D-Link DIR-615 FW v3.0.2 web interface. The navigation menu includes Home, Settings, Functions, and Management. The current page is 'Functions >> Firewall >> IP Filter/Adding'. The configuration is split into two columns:

- General Settings:**
  - Enable rule:** A toggle switch is turned on.
  - Name\*:** A text input field with a note: "The number of characters should not exceed 32".
  - Action:** A dropdown menu set to "Allow".
  - Protocol:** A dropdown menu set to "TCP/UDP".
  - IP version:** A dropdown menu set to "IPv4".
- Source IP address:**
  - Set as:** A dropdown menu set to "Range or single IP address".
  - Start IPv4 address:** A dropdown menu.
  - End IPv4 address:** A dropdown menu.
- Destination IP address:**
  - Set as:** A dropdown menu.
  - Destination port:** A text input field.
- Ports:**
  - Set as:** A dropdown menu.
  - Destination port:** A text input field.
  - Set source port manually:** A toggle switch.

An **APPLY** button is located at the bottom left of the configuration area.

## IP Filter Create/Edit (cont)

### Source IP Address

**Set as:** Choose **Range or single IP address** to enter a specific IP address or ranges for the source filter. Choose **Subnet** to specify a subnet only.

**Start/End IPv4/IPv6 address:** If you have selected **Range or single IP address**, specify an IP address range for the source filter. To specify a single address, use only the **Start IPv4/IPv6 address** field and leave the **End IPv4/IPv6 address** field blank.

**Subnet IPv4/IPv6 address:** If you have selected **Subnet**, enter the source subnet to filter.

### Ports

**Destination port:** Specify the destination port or ports to which the filter will apply. Specify multiple ports by separating them with commas. Specify port ranges by separating the beginning and end of the range with a colon.

**Set source port manually:** Toggle this switch to specify source ports to which the filter will apply.

**Source port:** If **Set source port manually** has been enabled, specify the source port to which the filter will apply. Specify multiple ports by separating them with commas. Specify port ranges by separating the beginning and end of the range with a colon.

Click **Apply** when you are done.

The screenshot shows the D-Link IP Filter configuration interface. At the top, there are navigation links for Home, Settings, Functions, and Management. The main heading is 'IP Filter' with a sub-note: 'On this page you can create rules for filtering IP packets and edit or remove existing rules.' Below this is a breadcrumb trail: 'Functions >> Firewall >> IP Filter/Creating'. The configuration form is divided into several sections:

- General Settings:** Includes a toggle for 'Enable rule' (checked), a 'Name\*' field, and an 'Action' dropdown set to 'Allow'.
- Source IP Address:** Includes a 'Set as' dropdown set to 'Range or single IP address', a 'Start IPv4 address' dropdown, and an 'End IPv4 address' dropdown.
- Destination IP Address:** Includes a 'Set as' dropdown set to 'Range or single IP address', a 'Start IPv4 address' dropdown, and an 'End IPv4 address' dropdown.
- Ports:** Includes a 'Destination port' field and a toggle for 'Set source port manually' (checked).

An 'APPLY' button is located at the bottom of the form.

## DMZ

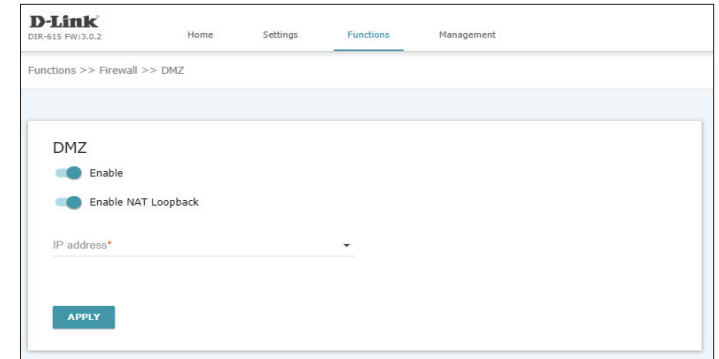
This Demilitarized Zone (DMZ) feature directly exposes the client to the Internet, and is not recommended in ordinary situations.

**Enable:** Toggle this switch to enable the DMZ feature.

**Enable NAT Loopback:** Toggle this switch to enable NAT Loopback. NAT Loopback allows LAN devices to connect directly to the DMZ host by using the WAN IP address

**IP Address:** If DMZ is enabled, specify the IP address of the DMZ host.

Click **Apply** when you are done.



## MAC Filter

The MAC filter is used to restrict or allow certain types of Ethernet Frames through the gateway based on their source or destination MAC address. These filters are helpful in securing or restricting traffic on your local network.

The currently defined MAC filters are displayed in the table. You may define up to 32 MAC filtering rules. If you wish to remove a rule, click the corresponding check box to select it and then click **Delete**. If you wish to create a new rule, click the **Add** button.

**Default Mode:** Select **Allow** to allow all traffic except from MAC addresses in the **List of exceptions** with the **Deny** action. Select **Deny** to allow all traffic except from MAC addresses in the **List of exceptions** with the **Allow** action.

### List of exceptions

**Add:** Click here to add a new filter to the firewall. For details, see **Add Rule** on page **73**.

**Delete:** If you have a selected one or more filters, click this button to delete the selected filter(s).

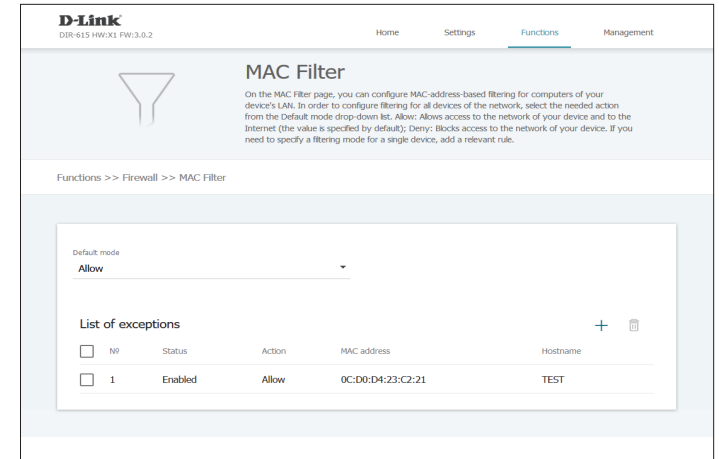
**No:** If DMZ is enabled, specify the IP address of the DMZ host.

**Status:** Indicates the number of the filter.

**Action:** Indicates the action taken when the filter is triggered.

**MAC address:** Indicates the MAC address to which the filter applies.

**Hostname:** Indicates the hostname of the device to which the filter applies.



## MAC Filter (cont)

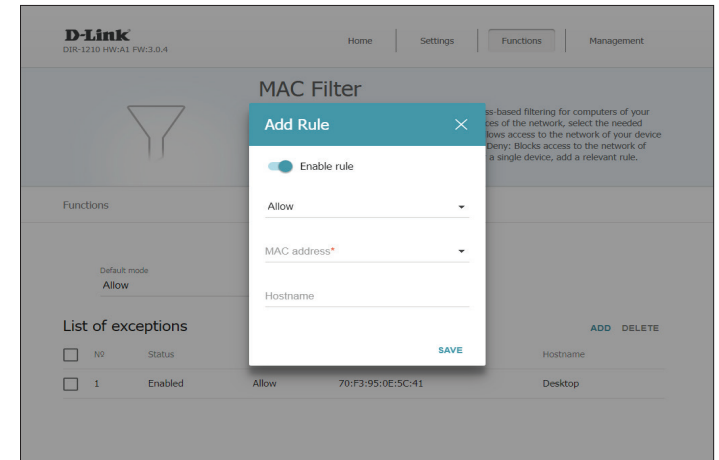
### Add Rule

**Allow/Deny:** Choose the action to be taken when the rule is triggered. Choose **Allow** or **Deny**.

**MAC address:** Specify the MAC address of the host to which the filter will apply. This field is mandatory.

**Hostname:** Specify the hostname of the host to which the filter will apply. This field is optional.

Click **Save** when you are done, or click the **X** to cancel.





## Web Site Filter

The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

### URL Filter

**Enable:** Toggle this switch to enable or disable web filtering.

### Addresses

**Address Filtering:** Choose from the drop down list whether you want to **Block Listed URLs** or **Block all URLs except listed**.

**Add:** Click on the Add button to add a new URL to the URL list. In the pop up window, specify a URL or keyword you want to filter. Choose from drop down list matching template options.

**Delete:** To delete an existing entry, click the checkbox corresponding to the entry you want to delete, then click on the **Delete** button.

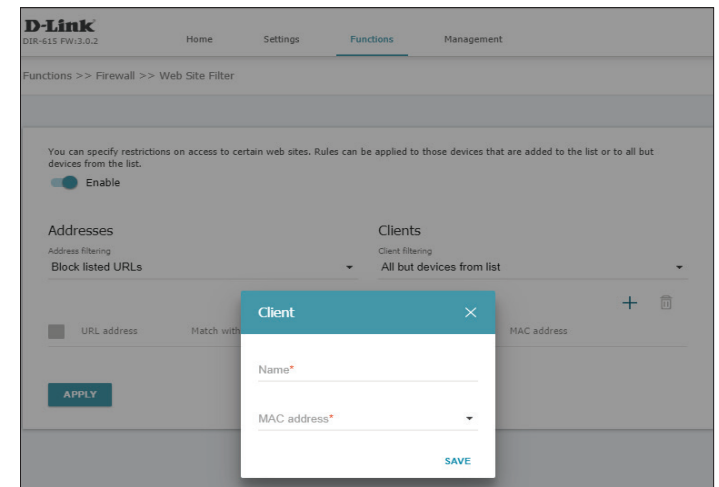
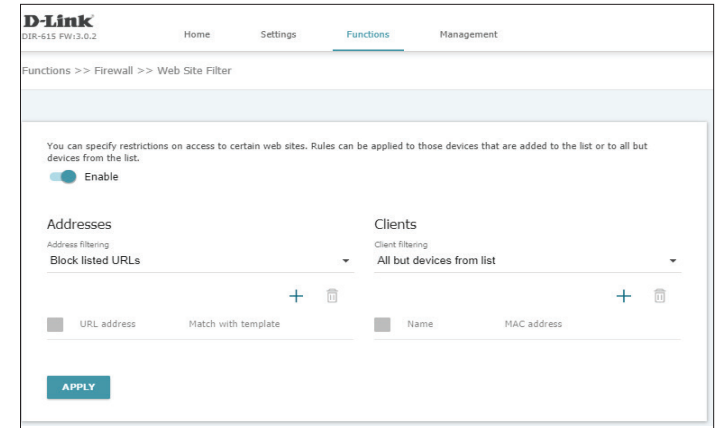
### Clients

**Client filtering:** Choose from the drop down list whether you want to filter **Devices from list** or **All but devices from list**.

**Add:** Click on the Add button to add a new client to the list of clients. In the pop up window, specify a hostname for the client and its MAC address.

**Delete:** To delete an existing entry, click the checkbox corresponding to the entry you want to delete, then click on the **Delete** button.

Click **Apply** when you are done.



## DoS Protection

DoS (Denial of Service) protection can help protect the router against certain kinds of DoS attacks. Note that this filter is not complete protection, and should be used in tandem with other tools for maximum protection.

### URL Filter

**Enable:** Toggle this switch to enable or disable the DoS Protection feature.

### Per Source IP Flood

Toggle specific IP flood sources to filter. Some of these settings have subtypes.

### Other Settings

Toggle specific attack types to filter.

Click **Apply** when you are done.

**D-Link**  
DIR-615 FW v3.0.2

Home Settings **Functions** Management

Functions >> Firewall >> DoS Protection

Enable

ⓘ Enabling DoS filter may lead to a slight decrease in the overall performance of the device

**Per-source IP Flood**

TCP/SYN  
TCP/SYN threshold (pps)\*

TCP/FIN  
TCP/FIN threshold (pps)\*

UDP  
UDP threshold (pps)\*

ICMP  
ICMP threshold (pps)\*

**Other Settings**

TCP/UDP port scan

High sensitivity

IP Land

IP Spoof

IP TearDrop

TCP scan

TCP/SYN with data

UDP Bomb

Block source IP

Block time (in seconds)  
0

**APPLY**

# Wi-Fi Client management

The Client Management page displays a list of currently connected Wi-Fi devices. You can view detailed information about these devices or force them to disconnect from your network.

## List of Wi-Fi Clients

**Refresh:** Click here to refresh the connected clients list.

**Disconnect:** Click here to disconnect the selected client(s) from your network. Note that this only disconnects the client, it does not prevent the client from reconnecting.

**Hostname:** Indicates the hostname of the connected client.

**MAC address:** Indicates the MAC address of the connected client.

**Band:** Indicates the band over which the client is connected.

**Network name (SSID):** Indicates the SSID to which the client is connected.

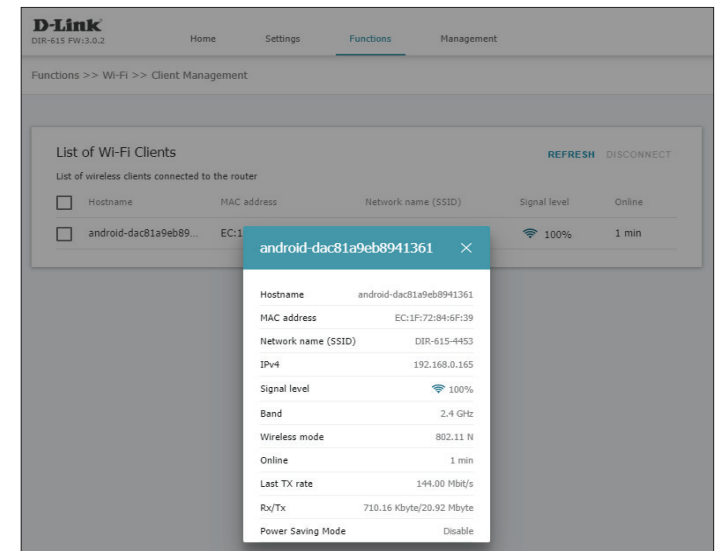
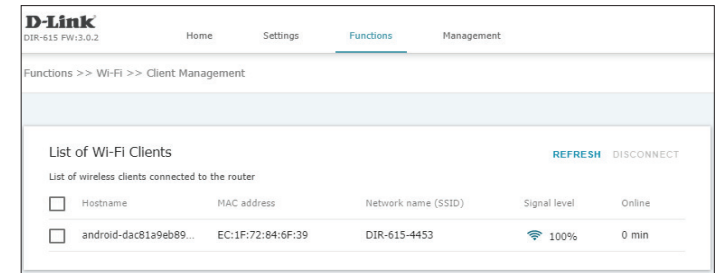
**Signal Level:** Indicates signal strength as a percentage.

**Online:** Indicates the time online in minutes.

**Last TX rate:** Indicates the last recorded transmission rate in Mbps.

**Rx/Tx:** Indicates total bytes received or transmitted this session.

**Power Saving Mode:** Indicates the power saving status of the client.



## WPS

The Wi-Fi Protected Setup page allows you to create a wireless connection between your router and a device automatically by simply pushing a button. WPS for 2.5 Ghz and 5 Ghz are configured separately by clicking the corresponding buttons for 2.5 Ghz and 5 Ghz.

### WPS Control

**Enable/Disable:** Click this button to toggle WPS. For security reasons, WPS is disabled by default.

**Establish connection:** Click this button to launch the **Establish Connection** menu, described below.

### Information

**WPS state:** Shows whether it is configured or not.

**Network name (SSID):** Indicates the SSID to which the client is connected.

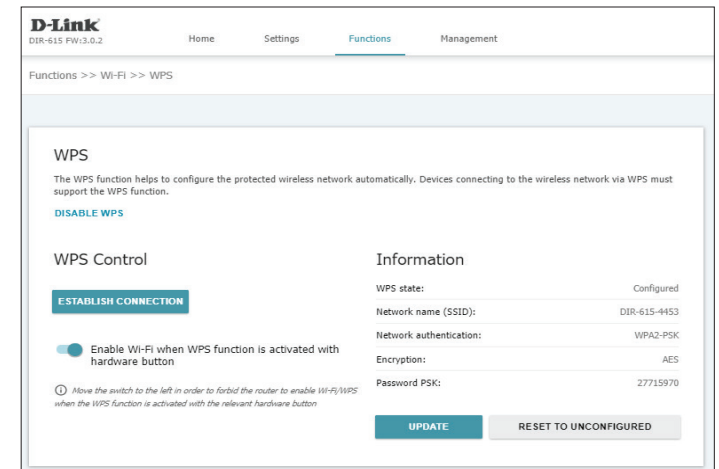
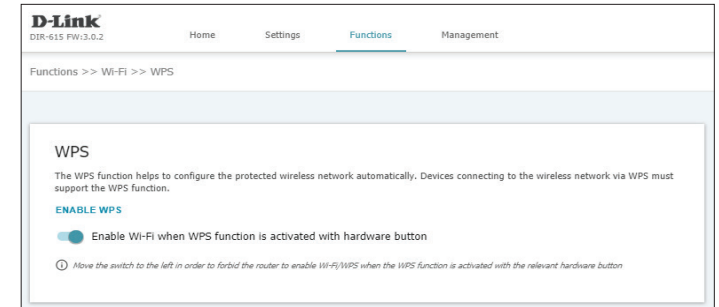
**Network authentication:** Indicates the type of authentication used on the network.

**Encryption:** Indicates the encryption used by the authentication method.

**Password PSK:** Indicates the password of the network.

**Update:** Click this button to refresh the page.

**Reset to Unconfigured:** Click here to clear WPS configuration data.



# WMM

WMM (Wi-Fi Multimedia) is a QoS (Quality of Service) system for improving the quality of video and voice applications on your wireless network.

## Wi-Fi Multimedia

**Work mode:** Select **Auto**, **Manual**, or **Disabled**. The default and recommended setting is **Auto**. If you select **Manual**, you will be prompted for detailed configuration. This setting is intended for advanced users only and is not recommended for most users.

## Access Point/Station

If **Work mode** has been set to **Manual**, you can click on each row to configure advanced QoS settings for that connection type.

Functions >> Wi-Fi >> WMM

Wi-Fi Multimedia  
The mechanism for improving Wi-Fi network performance. It is recommended for users not to change the specified values

Work mode  
Manual

Access Point							Station						
AC	AIFS	CWMin	CWMax	TXOP	ACM	ACK	AC	AIFS	CWMin	CWMax	TXOP	ACM	
BK	7	31	1023	0	off	off	BK	7	15	1023	0	off	
BE	3	15	63	0	off	off	BE	3	15	1023	0	off	
VI	1	7	15	94	off	off	VI	2	7	15	94	off	
VO	1	3	7	47	off	off	VO	2	3	7	47	off	

Functions >> Wi-Fi >> WMM

Wi-Fi Multimedia  
The mechanism for improving Wi-Fi network performance. It is recommended for users not to change the specified values

Work mode  
Manual

Access Point				Station			
AC	AIFS	CWMin	CWMax	CWMin	CWMax	TXOP	ACM
BK	7	31	1023	15	1023	0	off
BE	3	15	63	15	1023	0	off
VI	1	7	15	7	15	94	off
VO	1	3	7	3	7	47	off

**Edit Access Point: Background**

AIFS\* 7

CWMin 31

CWMax 1023

TXOP\* 0

ACM

ACK

SAVE CLOSE

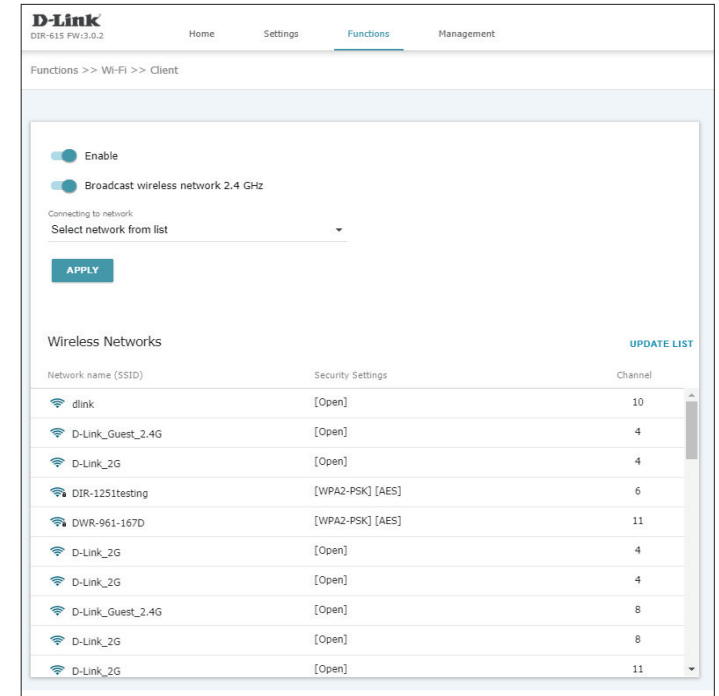
# Client

Client mode allows you to configure your router as a client on another wireless network. This would be useful to setup the router as a wireless repeater or connect to a WISP.

**Enable:** Toggle this switch to enable your router to act as a Wi-Fi client.

**Broadcast wireless network 2.4/5 GHz:** Toggle these switches to enable or disable your router's wireless APs.

**Connecting to network:** Choose **Select network from list** or **Connect to hidden network**. If you choose **Select network from list**, select the network you wish to connect to and enter any necessary security information as prompted. If you choose **Connect to hidden network**, enter the Wi-Fi information below.



## Client (cont)

### If you selected **Connect to hidden network**:

**Frequency band:** Select the frequency band used by the hidden network. This must be specified correctly to connect.

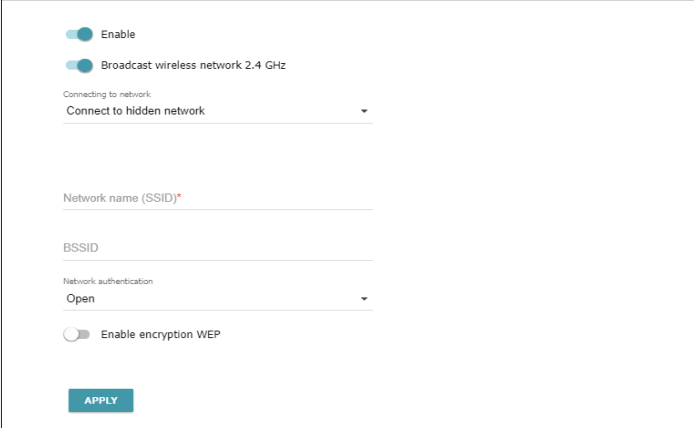
**Network name (SSID):** Specify the network name used by the hidden network. This must be specified correctly to connect.

**BSSID:** Specify the BSSID

**Network authentication:** Select the network authentication used by the hidden network. This must be specified correctly to connect.

**Password PSK:** Specify the password or PSK used by the hidden network. This must be specified correctly to connect.

Click **Apply** when you are done.



The screenshot shows a configuration panel for connecting to a hidden network. At the top, there are two radio buttons: "Enable" (selected) and "Broadcast wireless network 2.4 GHz". Below this, a dropdown menu is set to "Connect to hidden network". The "Network name (SSID)\*" field is empty. The "BSSID" field is also empty. The "Network authentication" dropdown menu is set to "Open". At the bottom, there is an "Enable encryption WEP" checkbox which is unchecked. An "APPLY" button is located at the bottom right of the panel.

# Client Shaping

Client shaping allows you to impose speed limits on clients to ensure that bandwidth is not being monopolized by a single Wi-Fi client.

## Client Shaping

**Add:** Click this button to add a new client shaping rule. You will be taken to the **Add Rule** dialogue, described below.

**Delete:** Click this button to delete the selected rule(s).

**MAC address:** Indicates the MAC address of the Wi-Fi client to which the rule applies.

**Maximum upload rate:** Indicates the maximum upload rate for the given client in megabits per second.

**Maximum download rate:** Indicates the maximum download rate for the given client in megabits per second.

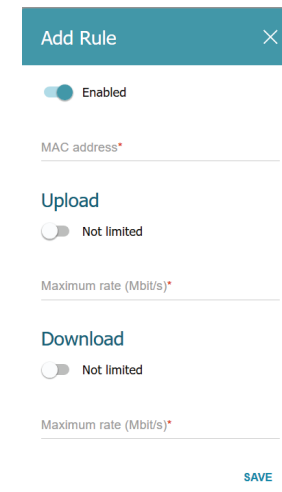
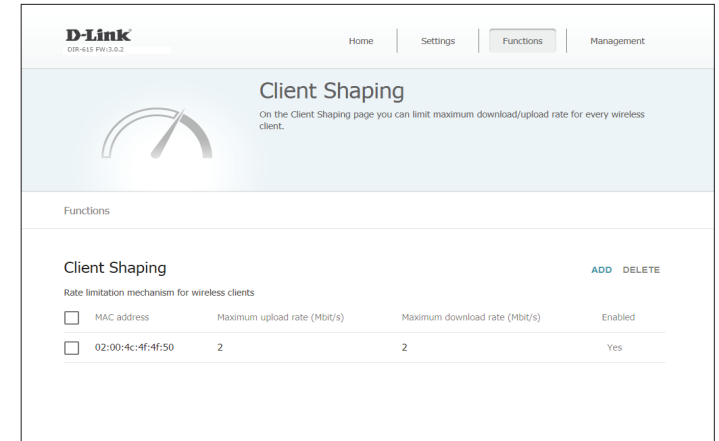
**Enabled:** Indicates if the rule is enabled.

## Add/Edit Rule

**Enabled:** Toggle this switch to enable the rule

**MAC address:** Specify the MAC address of the Wi-Fi client to which the rule will apply.

## Upload/Download





## Client Shaping (cont)

**Not limited:** Toggle this switch to disable the limit for the corresponding transfer type.

**Maximum rate:** If **Not limited** is disabled, specify a maximum transfer rate in megabits per second.

Click **Save** when you are done.

MAC address	Maximum upload rate (Mbit/s)	Maximum download rate (Mbit/s)	Enabled
<input type="checkbox"/> 02:00:4c:4f:4f:50	2	2	Yes

**Edit Rule**

Enabled

MAC address  
34:8d:5a:54:92:ab

**Upload**

Not limited

Maximum rate (Mbit/s)\*  
35

**Download**

Not limited

Maximum rate (Mbit/s)\*  
46

SAVE

## Additional

The additional screen allows you to configure details of your router's Wi-Fi settings. These are advanced settings and should not be needed for normal usage. 2.4 Ghz and 5 Ghz Wi-Fi are configured separately by clicking on the corresponding tab.

**Bandwidth:** Specify the channel bandwidth. Choose from 20 MHz, 20/40 MHz, 20/40/80 MHz

**Autonegotiation 20/40 (Coexistence)** Toggle to enable or disable. (For 2.4 Ghz configuration only)

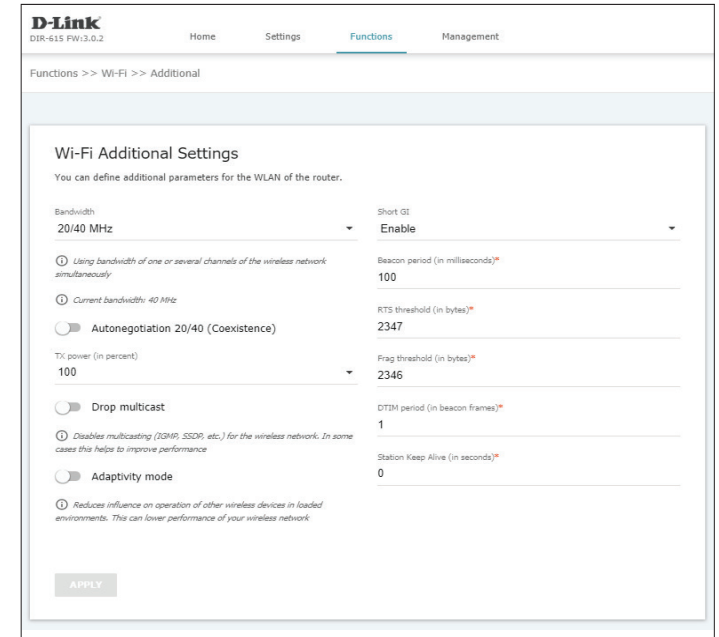
**TX Power (in percent):** Specify the routers transmission power in percentage. Choose from 300, 100, 75, 50, 25, 10

**B/G Protection:** 802.11b and 802.11g protection function is used to minimize collisions between devices of your wireless network. Choose from Auto, Always On, Always Off

**Short GI:** Choose from Enable or Disable

**Drop multicast:** Toggle to enable or disable.

**Adaptivity mode:** Toggle to enable or disable.



## Additional (cont)

- Beacon Period (in milliseconds):** Specify the time interval (in milliseconds) between packets sent to synchronize the wireless network. The default setting is 100ms.
- RTS threshold (in bytes):** Specify the minimum size (in bites) of a packet for which an RTS frame is transmitted. The default size is 2347 bytes and the standard range is 256-2346 bytes.
- Frag threshold (in bytes):** Specify in bytes the maximum frame size for a non-fragmented packet. The default size is 2346.
- DTIM period (in beacon frames):** Specify how often (by the number of beacon frames) that DTIM is transmitted. By default this is set to 1.
- Station Keep Alive (in seconds):** Specify the time interval (in seconds) between keep alive checks of wireless devices from your WLAN.

**D-Link**  
DIR-615 FW v3.0.2

Home Settings **Functions** Management

Functions >> Wi-Fi >> Additional

### Wi-Fi Additional Settings

You can define additional parameters for the WLAN of the router.

Bandwidth: 20/40 MHz

Short GI: Enable

Beacon period (in milliseconds)\*: 100

RTS threshold (in bytes)\*: 2347

Frag threshold (in bytes)\*: 2346

DTIM period (in beacon frames)\*: 1

Station Keep Alive (in seconds)\*: 0

Autonegotiation 20/40 (Coexistence):

Drop multicast:

Adaptivity mode:

TX power (in percent): 100

**APPLY**

## MAC Filter

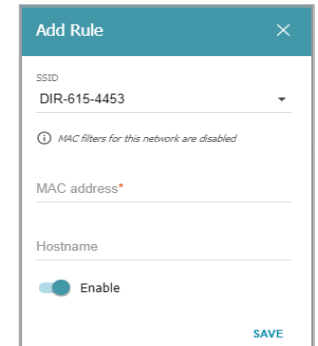
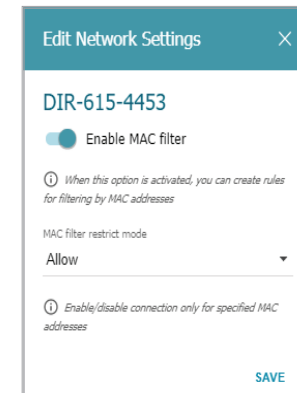
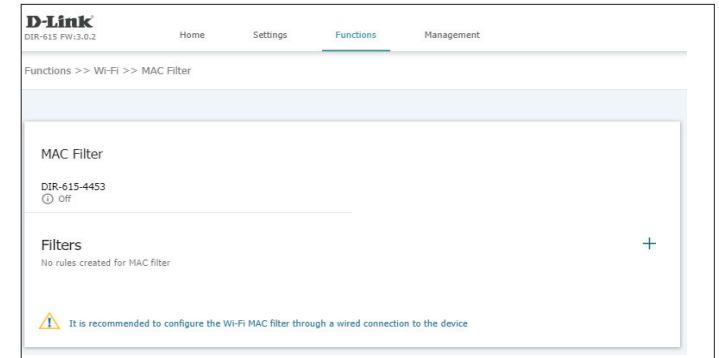
On the Wi-Fi/MAC Filter page, you can define a set of MAC addresses of devices which will be allowed to access the WLAN, or define a set of MAC addresses of devices which will not be allowed to access the WLAN.

To Enable or Disable MAC Filter for a specific SSID, click on the SSID name listed below each Wi-Fi band.

- Enable MAC Filter:** Toggle this switch to enable MAC filter. When this option is activated, you can create rules for filtering by MAC addresses
- MAC filter restrict mode:** Choose either allow or deny to enable/disable connection only for specified MAC addresses.

To add a rule, click on the add button.

- Frequency Band:** Choose which frequency band you want the rule to apply to.
- SSID:** Choose which SSID you want the rule to apply to.
- MAC Address:** Specify the MAC address of the device.
- Hostname:** Specify hostname of the device (optional).
- Enable Rule** Toggle this switch to enable or disable the rule.



## MAC Filter (cont)

Once a filter has been defined, page will display the list of filters below. To edit a filter, click directly on the corresponding row.

**MAC Address:** MAC address of device

**Hostname:** Hostname of device

**SSID:** Name of wireless network

**Band:** Frequency band

**Enabled:** Current status of filter

To delete a filter, select the corresponding check box then click on the delete symbol.

**D-Link** DIR-615 PHS02

Home Settings **Functions** Management

### MAC Filter

On the Wi-Fi/MAC Filter page, you can define a set of MAC addresses of devices which will be allowed to access the WLAN, or define MAC addresses of devices which will not be allowed to access the WLAN.

Functions >> Wi-Fi >> MAC Filter

2.4 GHz 5 GHz

DIR-1210-1122 DIR-1210-5G-1122  
 Off  Off

Filters + -

<input type="checkbox"/>	MAC address	Hostname	SSID	Band	Enabled
<input type="checkbox"/>	4D:14:8A:46:AA:80	Test	DIR-1210-1122	2.4 GHz	No

It is recommended to configure the Wi-Fi filter through a wired connection to the device

# Advanced UPnP IGD

UPnP IGD (Universal Plug and Play Internet Gateway Device) is a protocol that allows ports to automatically be mapped between your devices behind your NAT and the Internet.

**Enable:** Toggle this switch to enable or disable UPnP. If it is enabled, a table will appear indicating active UPnP connections.

## IPv4 IGD

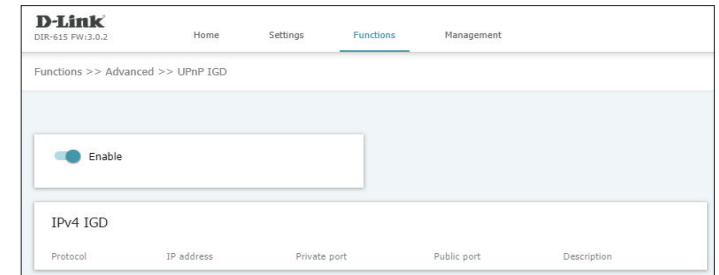
**Protocol:** Indicates the protocol used by the UPnP connection.

**IP:** Indicates the internal IP used by the UPnP connection.

**Private Port:** Indicates the internal port used by the used by the UPnP connection.

**Public port:** Indicates the port exposed to the internet used by the UPnP connection.

**Description:** Indicates the description of the protocol used by the UPnP connection.



## Remote Access

Remote access allows you to access the web GUI from WAN. By default, the access from external networks to the router is disabled for security reasons. If you need to allow access to the router from external networks, create relevant rules.

### Remote Access

**Add:** Click here to add a new rule, described below.

**Delete:** Click here to delete a selected rule.

**IP address:** Indicates the IP address permitted to access the GUI.

**Mask:** Indicates the subnet mask of the IP address permitted to access the GUI.

**Public Port:** Indicates the public port over which the IP address is permitted to access the GUI.

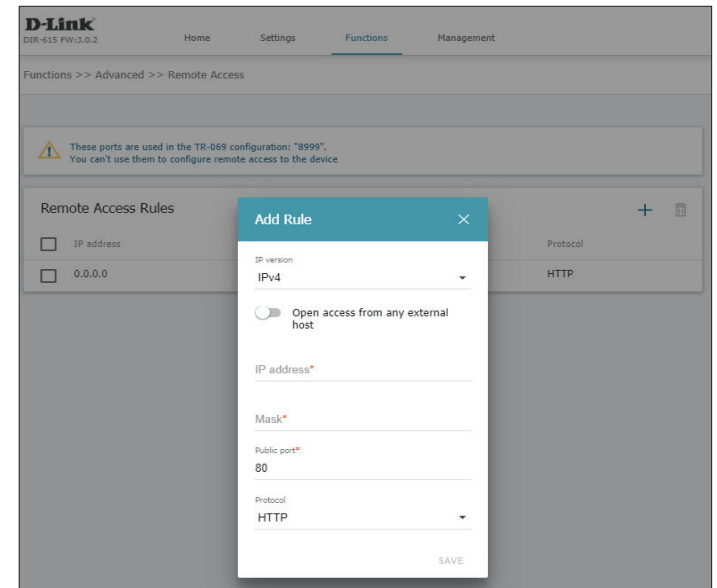
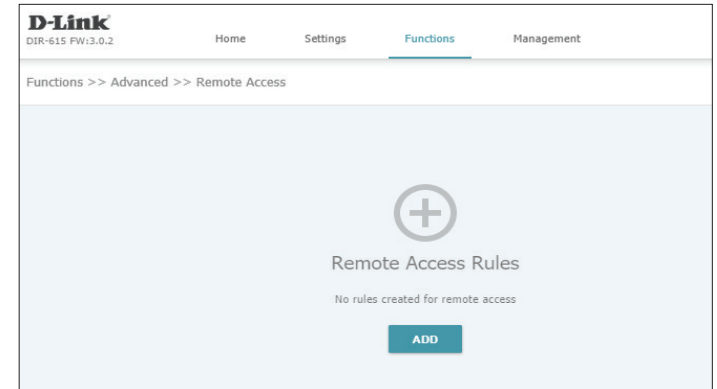
**Protocol:** Indicates the protocol used to access the GUI.

### Add Rule

**Open access:** Toggle this switch to enable any remote host to access the GUI. This is not recommended.

**IP address:** Specify the IP address of the remote host allowed to access the GUI.

**Mask:** Specify the subnet mask of the remote host allowed to access the GUI.



## Remote Access (cont)

**Public Port:** Specify the port over which the remote host will access the GUI.

**Protocol:** Choose **HTTP**, **HTTPS**, or **TELNET** as the protocol for remote access.

Click **Save** when you are done.



# Virtual Servers

Virtual Servers allows you to redirect incoming Internet traffic to a specified IP address in the local area network.

Click on **ADD** to create a new virtual server and specify the below parameters.

## General Settings

- Name:** Specify a name for the virtual server.
- Template:** Choose a template for the virtual server to pre-populate some fields, or choose **Custom** to configure all fields manually.
- Interface:** Select an interface from the drop-down menu, or select **<All>**
- Protocol:** Select a protocol from the drop-down menu to which the rule will apply.

## Public Network Settings Remote IP

- Remote IP:** Specify the remote IP to which the rule will apply.
- Add Remote IP:** Click this button to add additional remote IP fields.
- Public port (start/end):** Specify a start and an end port to which the rule will apply. If you wish to specify a single port, specify a start port only.

The screenshot shows the D-Link DIR-615 FW:3.0.2 web interface. The navigation menu includes Home, Settings, Functions, and Management. The current page is 'Functions >> Advanced >> Virtual Servers/Creating'. The configuration is split into three main sections:

- General Settings:** Name\*, Template (Custom), Interface (<All>), Protocol (TCP).
- Private Network Settings:** Private IP\*, Private port (start)\*, Private port (end).
- Public Network Settings:** Remote IP (with an 'ADD REMOTE IP' button), Public port (start)\*, and Public port (end).

A warning box states: "The following ports are used in remote access settings and other rules for virtual servers: '8999'. You cannot use them for the current rule." An 'APPLY' button is located at the bottom left of the form.

## Private Network Settings

**Private IP:** Specify the IP address on your local network to which the rule will forward.

**Private Port (start/end):** Specify a start and an end port to which the rule will apply. If you wish to specify a single port, specify a start port only.

Click **Apply** when you are done.

The screenshot shows the D-Link DIR-615 FW v3.0.2 web interface. The top navigation bar includes Home, Settings, Functions, and Management. The breadcrumb trail is Functions >> Advanced >> Virtual Servers/Creating. The main content area is split into two columns: General Settings and Private Network Settings. The General Settings column contains fields for Name, Template (set to Custom), Interface (set to <All>), and Protocol (set to TCP). The Private Network Settings column contains fields for Private IP, Private port (start), and Private port (end). Below these is the Public Network Settings section, which includes a Remote IP field with a note: "You can specify a single IP address, or a subnet IP address (for example, 10.10.10.0/24)". There is an "ADD REMOVE IP" button below the Remote IP field. At the bottom of the Public Network Settings section are fields for Public port (start) and Public port (end). A warning message box is present in the Public Network Settings area, stating: "The following ports are used in remote access settings and other rules for virtual servers: '8999'. You cannot use them for the current rule." An "APPLY" button is located at the bottom left of the configuration area.

## TR-069 Client

On the TR-069 Client page, you can configure the router for communication with a remote Auto Configuration Server (ACS). The TR-069 client is used for remote monitoring and management of the device.

### TR-069 Client

**Interface:** Select the interface over which the client should operate.

**Enable TR-069 client:** Toggle this switch to enable or disable TR-069.

### Auto Configuration Server Settings

**URL address:** Specify the URL of your ISP's ACS.

**Username:** Specify the username for your ISP's ACS.

**Password:** Specify the password for your ISP's ACS.

### Inform Settings

**Enable:** Toggle this switch to enable active contact with your ISP's ACS.

**Interval:** Specify the interval in seconds for each inform packet.

### Connection Request Settings

**Username:** Specify the username here.

The screenshot shows the D-Link web interface for configuring the TR-069 Client. The breadcrumb trail is 'Functions >> Advanced >> TR-069 Client'. The interface is organized into four panels:

- TR-069 Client:** Features a dropdown menu for 'Interface' (currently 'Automatic') and a toggle switch for 'Enable TR-069 client' which is turned on.
- Inform Settings:** Features a toggle switch for 'On' (turned on) and a text input for 'Interval (in seconds)' set to '120'.
- Auto Configuration Server Settings:** Features text inputs for 'URL address', 'Username', and 'Password'.
- Connection Request Settings:** Features text inputs for 'Username', 'Password', 'Request port' (set to '8999'), and 'Request path'.

An 'APPLY' button is located at the bottom right of the configuration area.

## TR-069 Client (cont)

**Password:** Specify the password here.

**Request Port:** Specify the request port here.

**Request Path:** Specify the request path here.

Click **Apply** when you are done.

D-Link  
DIR-615 FW v3.0.2

Home Settings **Functions** Management

Functions >> Advanced >> TR-069 Client

**TR-069 Client**

Interface\*  
Automatic

Enable TR-069 client

**Inform Settings**

On

Interval (in seconds)  
120

**Auto Configuration Server Settings**

URL address

Username

Password

**Connection Request Settings**

Username

Password

Request port  
8999

Request path

APPLY

## Static Route

Once connected to the Internet, your router automatically builds routing tables that determine where traffic should be sent. Static routes can override this process, allowing traffic to be directed to a specific client or location.

### Routing Configuration

**Add:** Click this button to add a new static route.

**Delete:** Click this button to delete the selected route(s).

**Destination network:** Indicates the IP address of the destination network.

**Gateway:** Indicates the gateway traversed by the static route.

**Interface:** Indicates the interface traversed by the static route.

**Metric:** Indicates the metric of the static route.

**Accessibility:** Indicates the current status of the route.

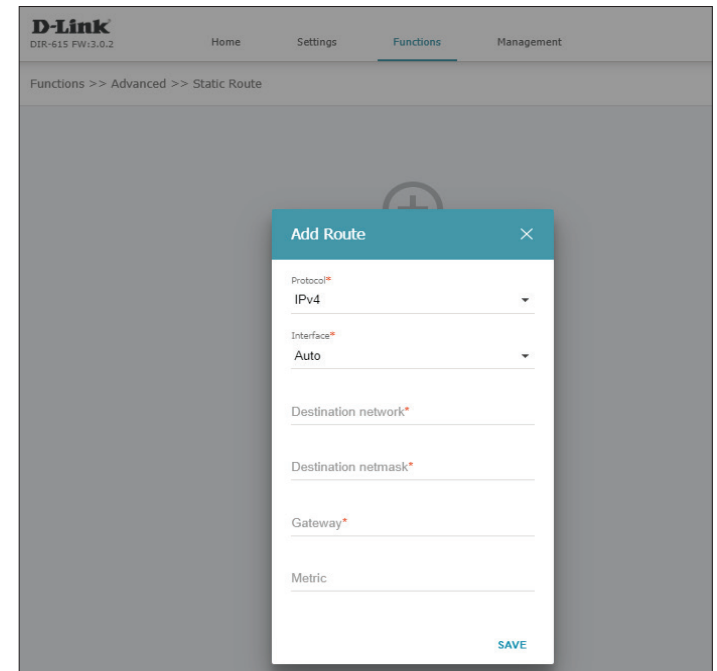
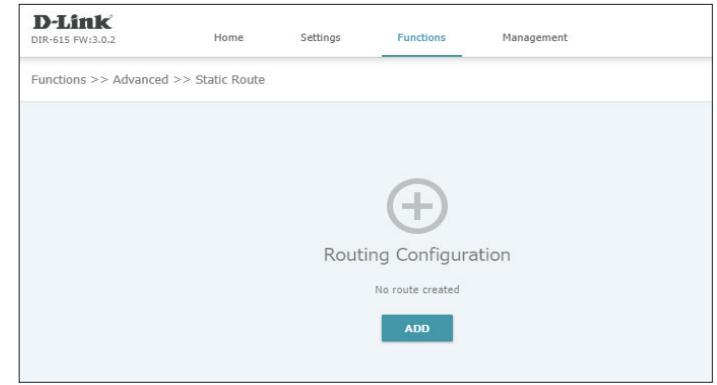
### Add Route

**Protocol:** Choose the protocol used by the static route.

**Interface:** Choose the interface used by the static route.

**Destination network:** Specify the IP address of the destination.

**Destination netmask:** Specify the netmask used by the destination IP.



## Static Route (cont)

**Gateway:** Specify the gateway used by the static route.

**Metric:** Specify a metric between 1 and 255.

Click **Save** when you are done.

## Dynamic DNS

Dynamic Domain Name Service allows your router to associate an easy-to-remember domain name such as [YourDomainName].com with the regularly changing IP address assigned by your Internet Service provider. This feature is helpful when running a virtual server.

### DDNS List

**Add:** Click this button to add a new DDNS service, described below.

**Delete:** Click this button to deleted the selected DDNS service(s).

**Hostname:** Indicates the hostname of the DDNS service.

**DDNS service:** Indicates the name of the DDNS service.

**Username:** Indicates the username used with the DDNS service.

**Update period:** Indicates the update period in minutes of the DDNS service.

### Add DDNS

**Hostname:** Specify the assigned hostname used by your DDNS service.

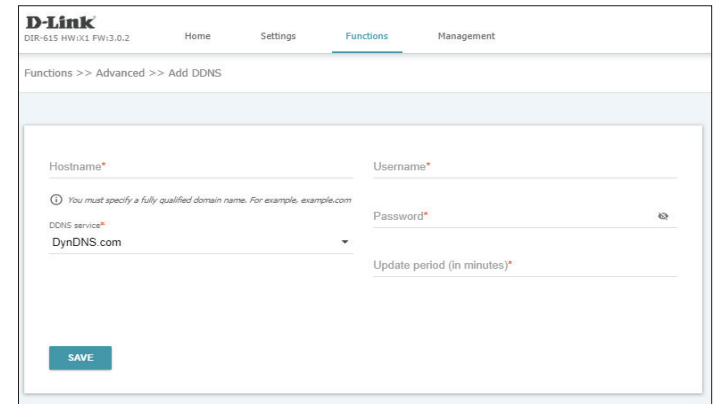
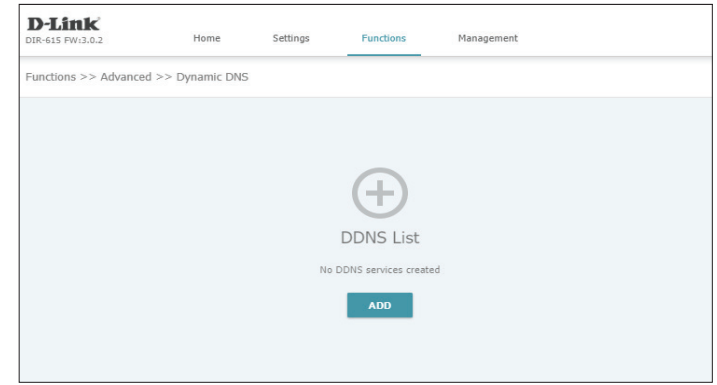
**DDNS service:** Select the DDNS service you are using.

**Username:** Specify the username for your DDNS service.

**Password:** Specify the password for your DDNS service.

**Update period:** Specify the update period in minutes.

Click **Save** when you are done.



## Bandwidth Control

The Bandwidth Control page allows you to set bandwidth controls across the device's Ethernet ports. Click any port to change its bandwidth control settings.

### Bandwidth Control

**Port:** Indicates the port to which bandwidth controls can be applied.

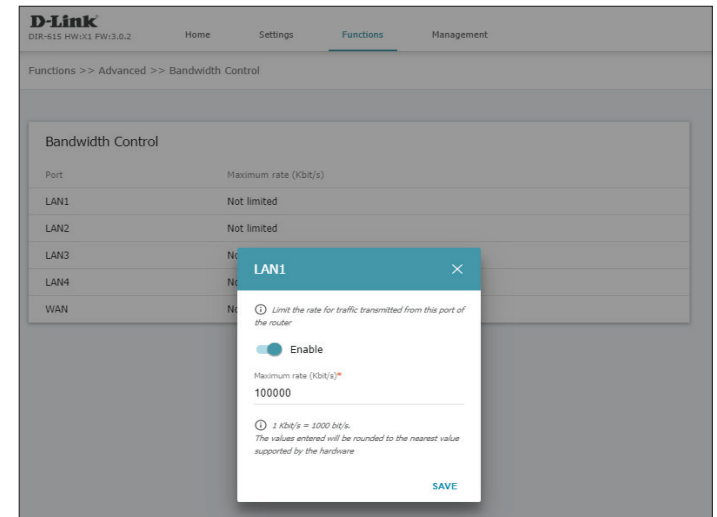
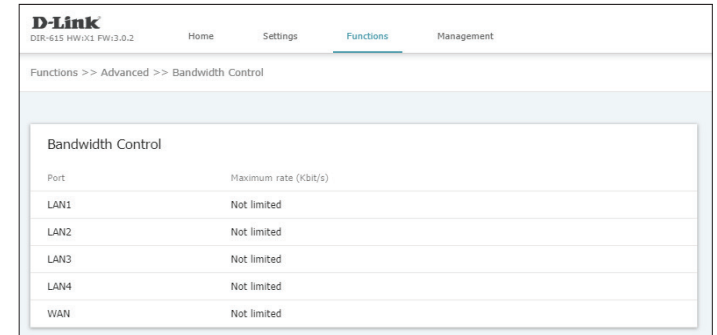
**Maximum rate:** Indicates the maximum bandwidth allowed over the port in kbps.

### Port

**Enable:** Toggle this switch to enable bandwidth control on the specified port.

**Maximum rate:** Indicates the maximum bandwidth allowed over the port in kbps.

Click **Save** when you are done.





# Ports Settings

The Ports Settings page allows you to configure or disable autonegotiation of speed and duplex mode or manually configure speed and duplex mode for each Ethernet port of the router.

## Ports Settings

**Port:** Indicates port number.

**Status:** Indicates current status of port.

**Autonegotiation:** Indicates whether autonegotiation is on/off.

**Speed:** Indicates port speed.

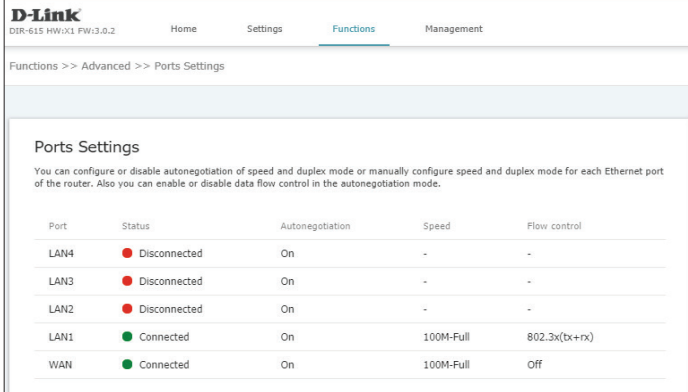
**Flow Control:** Indicates whether symmetric flow control is on/off.

To configure a port, click on the corresponding port you wish to configure.

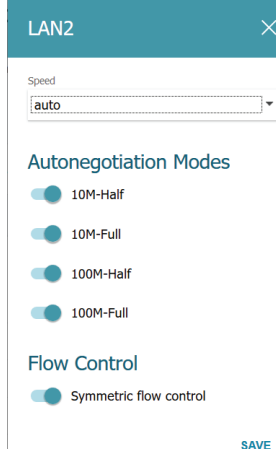
**Speed:** Specify from drop down list port speed

**Autonegotiation Modes:** Toggle this switch to enable/disable autonegotiation modes

**Flow Control:** Toggle this switch to enable/disable symmetric flow control



Port	Status	Autonegotiation	Speed	Flow control
LAN4	Disconnected	On	-	-
LAN3	Disconnected	On	-	-
LAN2	Disconnected	On	-	-
LAN1	Connected	On	100M-Full	802.3x(tx+rx)
WAN	Connected	On	100M-Full	Off



LAN2

Speed

Autonegotiation Modes

10M-Half

10M-Full

100M-Half

100M-Full

Flow Control

Symmetric flow control

SAVE

# Redirect

The Redirect page allows to enable or disable notifications for when Internet connection has failed.

## Common Setting

**Enable Redirect:** Toggle this switch to enable failure notifications in the browser window

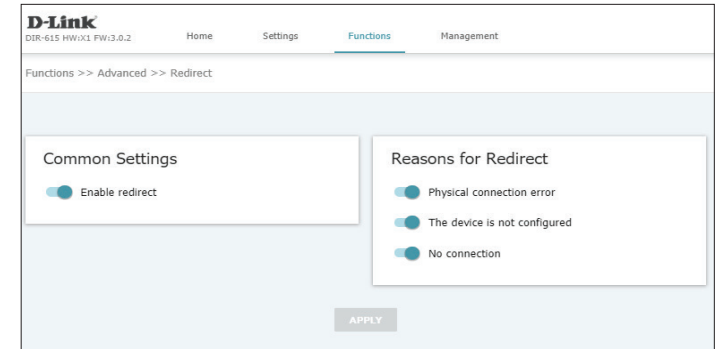
## Reasons for Redirect

The below options will only appear if redirect is enabled.

**Physical Connection Error:** Toggle this switch to enable notification if connection failure is due to physical error.

**The Device is not Configured:** Toggle this switch to enable notification if connection failure due to device not configured

**No Connection:** Toggle this switch to enable notification if connection failure to due no connection detected



# UDPXY

The UDPXY page allows you to configure the built-in UDPXY application. This application allows you to relay multicast UDP traffic to client's TCP (HTTP) connection.

Toggle this switch to enable

**Port:** Specify port number to be used for UDPXY application

**Buffer Size:** Specify buffer size in bytes for incoming data

**Maximum client number:** Specify maximum number of clients to be supported

**Buffer Size for Data Transferred:** Specify buffer size in bytes for data transferred to client.

Click **APPLY** when finished.

**D-Link**  
DIR-1210 HW-A1 FW:3.0.9

Home Settings **Functions** Management

## UDPXY

On the UDPXY page you can allow the router to use the built-in UDPXY application. The UDPXY application transforms UDP traffic into HTTP traffic. This application allows devices which cannot receive UDP streams to access stream video.

Functions >> Advanced >> UDPXY

UDPXY is a UDP-to-HTTP multicast traffic relay daemon: it forwards UDP traffic from a given multicast subscription to the requesting HTTP client.

Enable

Port*	4022	Buffer size for incoming data*	131071
Maximum client number*	3	Buffer size for data transferred to client*	4096

**APPLY**

# IGMP

The IGMP/MLD page allows you to enable/disable Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD). IGMP is used to managed multicast traffic for IPv4-based networks. MLD is used to manage multicast traffic in IPv6-based networks.

## IGMP

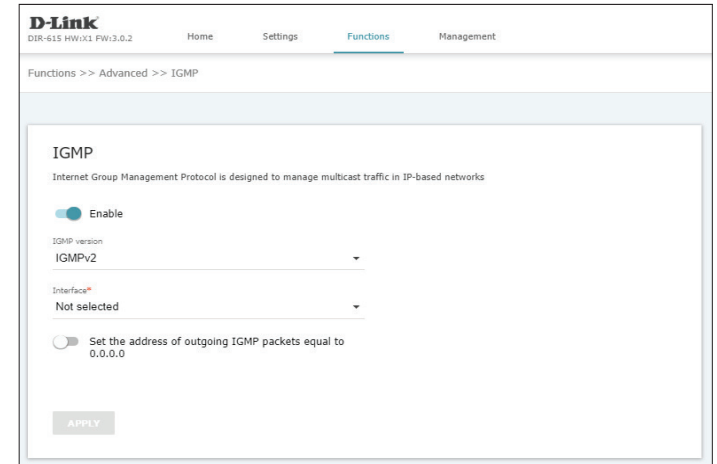
**Enable/Disable:** Toggle this switch to enable/disable IGMP.

**IGMP version** Choose from drop down list which IGMP version to use.

**Interface:** Choose from drop down list which interface to apply to

**Enable/Disable:** Toggle this switch to set the address of outgoing IGMP packets equal to 0.0.0.0

Click **APPLY** when finished.



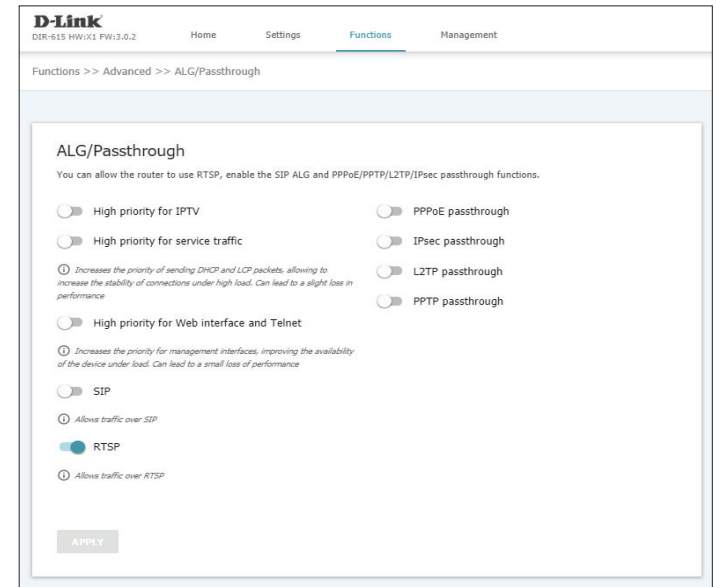
# ALG/Passthrough

The ALG/Passthrough page allows you to configure the router to use RTSP, enable the SIP ALG and PPPoE/PPTP/L2TP/IPsec passthrough functions.

Toggle this switch to enable/disable the following:

- |   |                          |
|---|--------------------------|
| <b>SIP</b>  | <b>PPPoE passthrough</b> |
| <b>RTSP</b>                                       | <b>IPsec passthrough</b> |
| <b>High priority for IPTV</b>                     | <b>L2TP passthrough</b>  |
| <b>High priority for service traffic</b>          | <b>PPTP passthrough</b>  |
| <b>High priority for service traffic</b>          |                          |
| <b>High priority for Web interface and Telnet</b> |                          |

Click **APPLY** when finished.



# Management

## System Time

System Time allows you to configure date and time to be synchronized with a public time server on the Internet or set manually.

**Enable/Disable:** Toggle this switch to enable/disable NTP

### Daylight Saving time

### Get NTP server addresses using DHCP

### Run as a server for the local network.

**System Date:** Displays device's current system date

**System Time:** Displays router's current system Time.

### NTP Servers

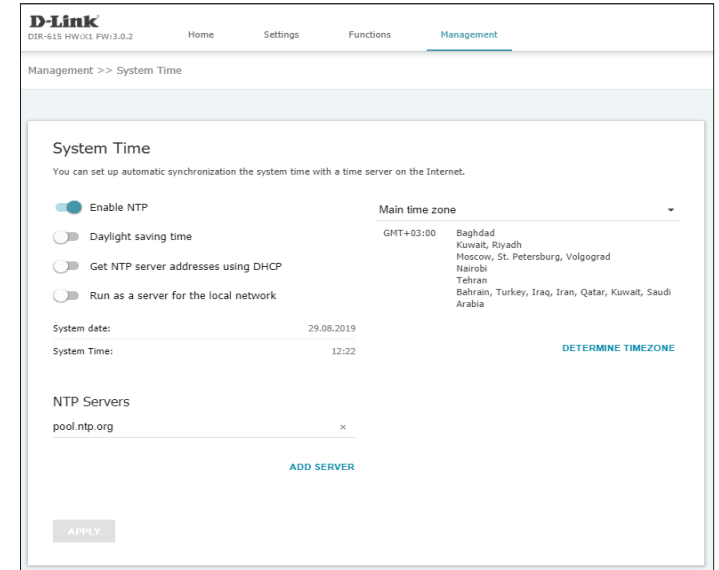
Displays default public time server. Click on 'x' to delete.

Click ADD SERVER to add a new public time server.

### Main time zone

Displays current time zone. To change time zone, choose from drop down list.

Determine Timezone



# System Log

The System Log page displays diagnostic information that run in the background to monitor the health of your device if enabled.

## Log

**Refresh:** Click to refresh log for new updates.

**Export:** Click to export log as text file.

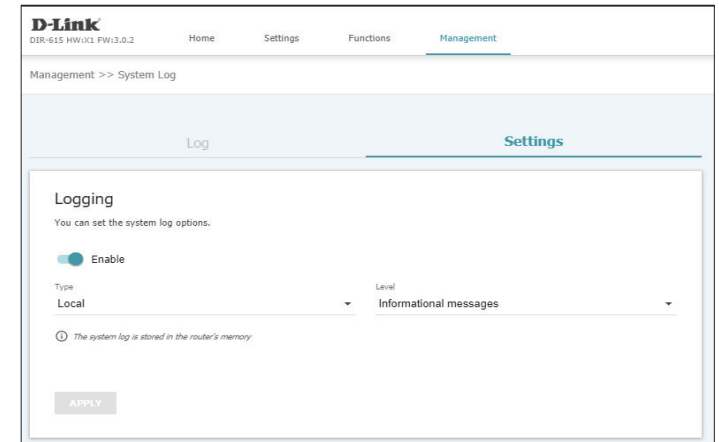
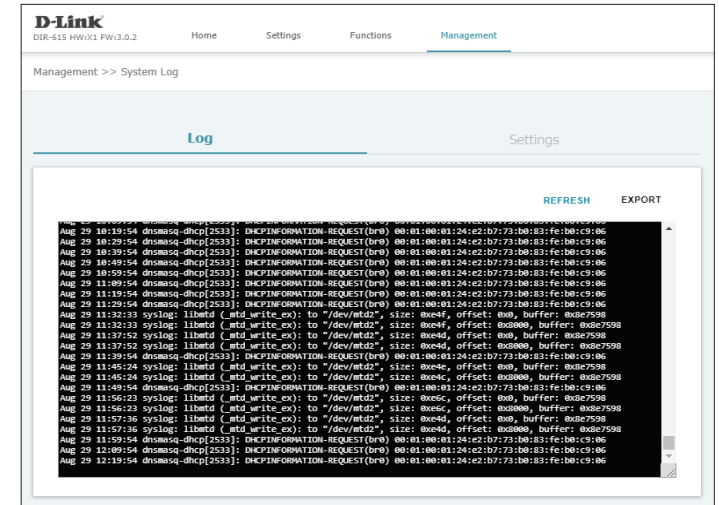
## Settings

**Enable/Disable:** Toggle this switch to enable/disable logging function.

**Type:** Choose from drop down list type of diagnostics to log.

**Level:** Choose from drop down list level of diagnostics to log.

Click **APPLY** when finished.



# Administration

The Administration page allows you to change router settings.

## User

**Login:** Username to login to router's configuration UI as the administrator. This cannot be changed.

**Password:** Specify new password. Password needs to be between 1 - 31 ASCII characters. Confirm password again below.

Click **SAVE** when finished.

**Language:** Choose router UI language from drop down list.

**Factory:** Click to reset router to factory default settings

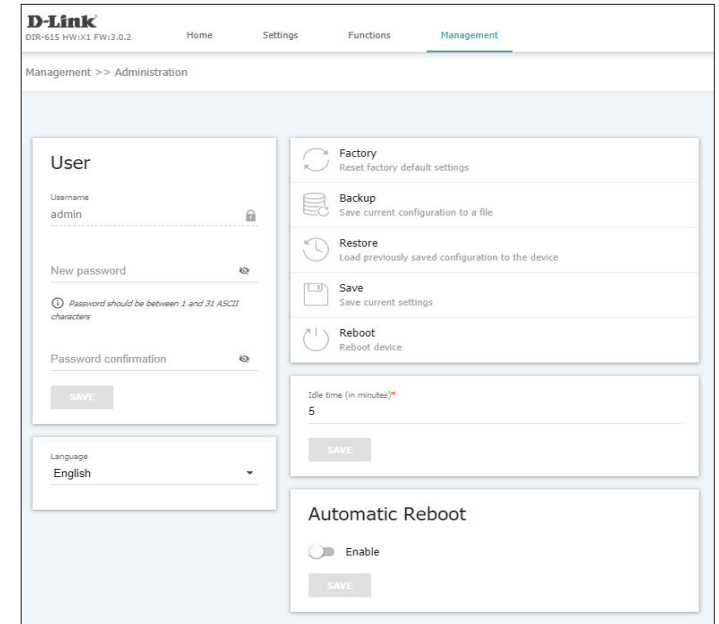
**Backup:** Click to save current configuration to a file

**Restore:** Click to load previously saved configuration file to the device.

**Save:** Click to save current settings

**Reboot:** Click to reboot device

**Idle Time:** Specify a period of inactivity (in minutes) after which the device will log you out.





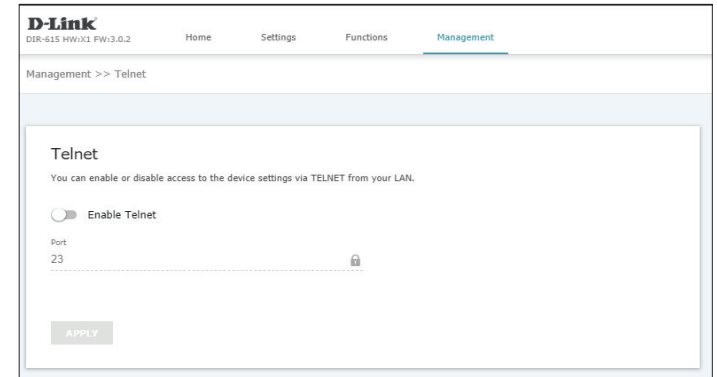
# Telnet

The Telnet page allows you to enable or disable access to the device settings via TELNET from your LAN.

**Enable/Disable:** Toggle this switch to enable Telnet.

**Port:** Specify port number for telnet access

Click **APPLY** when finished.



# Yandex.DNS Settings

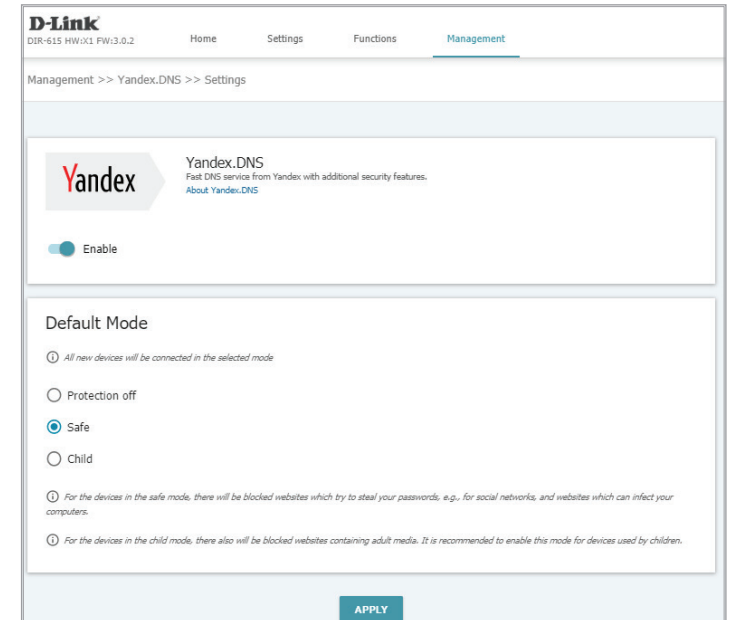
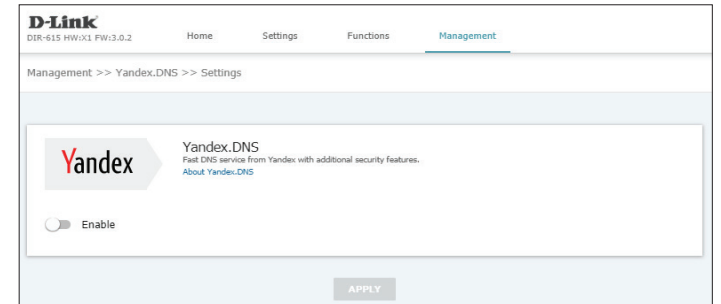
Fast DNS service from Yandex with additional security features.

**Enable/Disable:** Toggle this switch to enable Yandex.DNS.

**Default Mode:** Toggle this switch to enable or disable different protection modes.

- Protection off
- Safe
- Child

Click **APPLY** when finished.



## Devices and Rules

### Known Clients:

**IP address:** This column indicates the IP address

**MAC address:** This column indicates the MAC address

**Name:** This column indicate the name

**Rule:** This column refers the the rule in place. Click on the rule to edit.

### Rules:

**IP address:** This column indicates the IP address

**MAC address:** This column indicates the MAC address

**Name:** This column indicate the name

**Mode:** This column indicate the mode

Management >> Yandex.DNS >> Devices and Rules

Known Clients

IP address	MAC address	Name	Rule
fd01::9dea:5193:45bf:935 fd01::4809:8e9:ec23:6201 fd01::64bd:9d81:4635:6c83 fd01::5d70:b025:412b:44ec fd01::d40b:958:c57d:81fa fd01::5d87:cae9:7d0d:8448 fd01::c526:1ed6:2811:fbec fe80::803b:a4d2:f9e7:ffa3 fd01::f4cf:ca8f:d350:677e 192.168.0.116	B0:83:FE:B0:C9:06	08804PCWIN10	Default (Safe)

Rules

IP address	MAC address	Name	Mode

APPLY

Rules

IP address	MAC address	Name	Mode	
<input type="checkbox"/>	fd01::9dea:5193:45bf:935 fd01::4809:8e9:ec23:6201 fd01::64bd:9d81:4635:6c83 fd01::5d70:b025:412b:44ec fd01::d40b:958:c57d:81fa fd01::5d87:cae9:7d0d:8448 fd01::c526:1ed6:2811:fbec fe80::803b:a4d2:f9e7:ffa3 fd01::f4cf:ca8f:d350:677e 192.168.0.116	B0:83:FE:B0:C9:06	08804PCWIN10	Safe

Click **APPLY** when finished.

## Devices and Rules (cont)

### Create Rule:

**MAC address:** Select the MAC address from the drop down.

**IP address:** This indicates the IP address.

**Name:** This indicates the rule name.

**Mode:** Protection Off  
Safe  
Child

Click **APPLY** when finished.

**Create Rule** [X]

MAC address\*  
B0:83:FE:B0:C9:06

IP address\*  
fd01::9dea:5193:45bf:935  
fd01::4809:8e9:ec23:6201  
fd01::64bd:9d81:4635:6c83  
fe80::803b:a4d2:f9e7:ffa3  
fd01::f4cf:ca8f:d350:677e  
192.168.0.116

**ADD**

Name  
08804PCWIN10

Protection off  
 Safe  
 Child

**SAVE**

# Firmware Update

The Firmware Update page allows you to upgrade firmware manually or you can configure the router to check for updates automatically.

Do not turn off the router before the firmware upgrade is completed. This may cause the device to break down.

## Local Update

**Choose File:** Click to select firmware file to update.

Click on **Update Firmware** when ready.

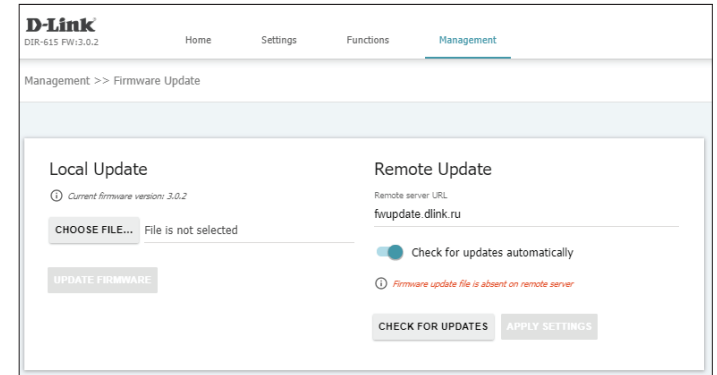
## Remote Update

**Remote Server URL:** Specify server address from which to update firmware.

**Enable/Disable:** Toggle this switch to check for updates automatically.

Click on **CHECK FOR UPDATES** to check for the latest firmware available from the remote server.

Click on **APPLY SETTINGS** when finished.



# Statistics

## Network Statistics

Network Statistics provides you with various statistics about data transmitted and received through the Internet.

### Network Statistics

**Name:** Name of connection.

**IP - Gateway:** IP Address and Gateway

**Rx/Tx:** Receive and Transmit volume

**Rx/Tx Errors** Number of Rx/Tx errors.

**Duration** Duration of connection.

Name	IP - Gateway	Rx/Tx	Rx/Tx errors	Duration
LAN	IPv4: 192.168.0.1/24 - 192.168.0.1 IPv6: fd01::1/64 - -	1.06 Gbyte / 2.07 Gbyte	0 / 0	-
dynamic_Internet	IPv4: 172.17.6.93/24 - 172.17.6.254	2.06 Gbyte / 242.27 Mbyte	0 / 0	3 d, 23 h., 46 min
WIFI	-	802.35 Mbyte / 114.23 Mbyte	0 / 0	-

## Port Statistics

The Port Statistics Page displays statistics of traffic passing through the router by ports.

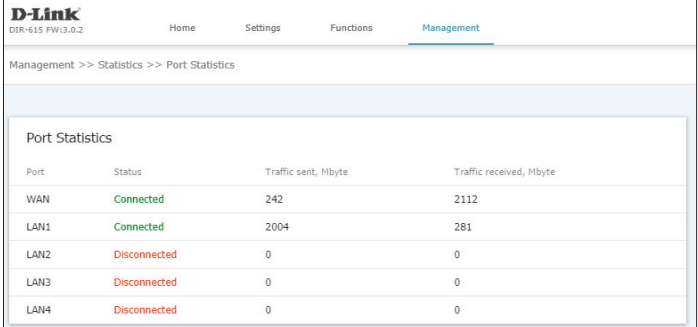
### Port Statistics

**Port:** Name of port

**Status:** Current status of port.

**Traffic sent** Amount of traffic sent in Mbyte

**Traffic received** Amount of traffic received in Mbyte



Port	Status	Traffic sent, Mbyte	Traffic received, Mbyte
WAN	Connected	242	2112
LAN1	Connected	2004	281
LAN2	Disconnected	0	0
LAN3	Disconnected	0	0
LAN4	Disconnected	0	0

# Routing Table

The Routing Table page displays information on routes.

## Routing Table

**Interface:** Type of Interface

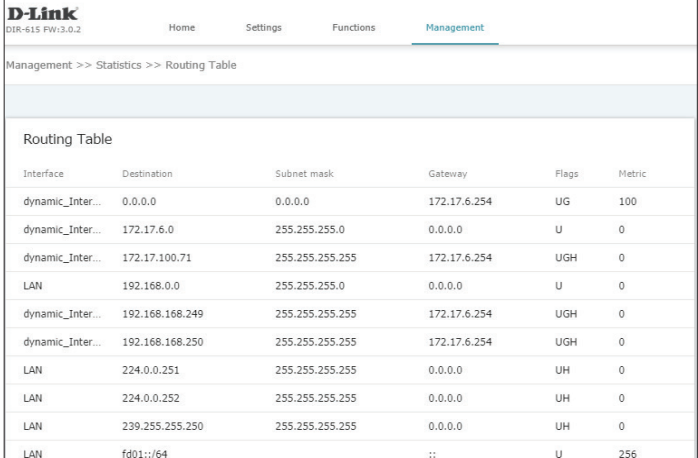
**Destination:** Destination network address

**Gateway:** Gateway address

**Subnet Mask:** Subnet Mask address

**Flags:** Displays whether a route is up, to a gateway, to a host, created by a redirect, or modified by a redirect.

**Metric:** Displays cost of route



Interface	Destination	Subnet mask	Gateway	Flags	Metric
dynamic_Inter...	0.0.0.0	0.0.0.0	172.17.6.254	UG	100
dynamic_Inter...	172.17.6.0	255.255.255.0	0.0.0.0	U	0
dynamic_Inter...	172.17.100.71	255.255.255.255	172.17.6.254	UGH	0
LAN	192.168.0.0	255.255.255.0	0.0.0.0	U	0
dynamic_Inter...	192.168.168.249	255.255.255.255	172.17.6.254	UGH	0
dynamic_Inter...	192.168.168.250	255.255.255.255	172.17.6.254	UGH	0
LAN	224.0.0.251	255.255.255.255	0.0.0.0	UH	0
LAN	224.0.0.252	255.255.255.255	0.0.0.0	UH	0
LAN	239.255.255.250	255.255.255.255	0.0.0.0	UH	0
LAN	fd01::/64		::	U	256



# DHCP

The DHCP page displays information on computers that have received IP addresses from the DHCP of the router.

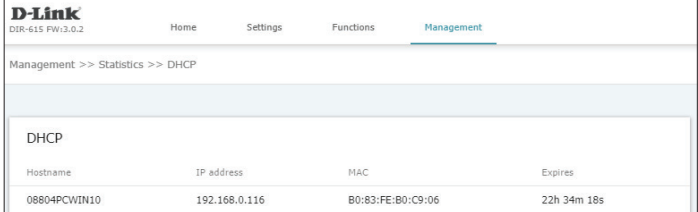
## DHCP

**Hostname:** Hostname of connected device

**IP Address:** IP address from connected device

**MAC:** MAC address of connected device

**Expires:** IP address expiration date (lease time)



D-Link  
DIR-615 FW v3.0.2

Home Settings Functions Management

Management >> Statistics >> DHCP

DHCP			
Hostname	IP address	MAC	Expires
08804PCWIN10	192.168.0.116	B0:83:FE:B0:C9:06	22h 34m 18s

# Multicast Groups

This page displays addresses and the interface of active multicast group to which the device is subscribed.

## IPv4

**IP Address:** IP address of active IPv4 multicast group

**Interface:** Interface of active IPv4 mutlicast group

## IPv6

**IP Address:** IP address of active IPv6 multicast group

**Interface:** Interface of active IPv6 mutlicast group

The screenshot shows the D-Link DIR-615 FW/3.0.2 web interface. The navigation menu includes Home, Settings, Functions, and Management. The current page is Management >> Statistics >> Multicast Groups. It displays two panels: IPv4 and IPv6. The IPv4 panel shows two IP addresses (239.255.255.250 and 228.8.8.8) and the interface LAN. The IPv6 panel shows two empty IP address and interface fields.

IPv4		IPv6	
IP address	Interface	IP address	Interface
239.255.255.250	LAN		
228.8.8.8			

# Diagnostics

## Ping

The Ping page allows you to manually check availability of a host from the local or global network.

**Host:** Address of host

**Count of Packets:** Number of packets to send

**IPv6:** Toggle this switch to check through IPv6 protocol

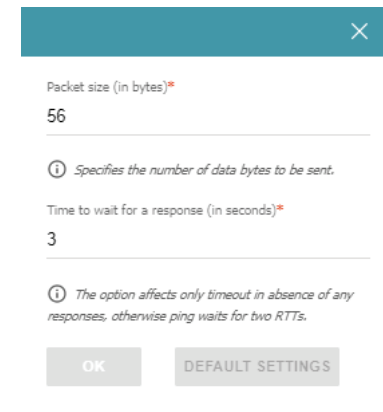
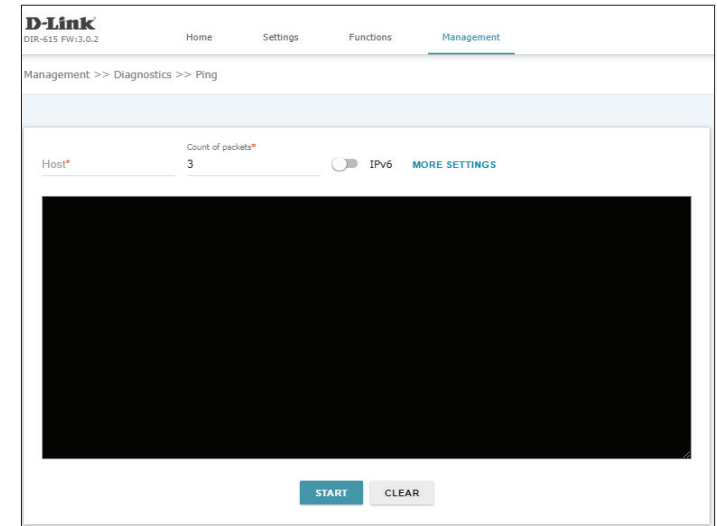
### MORE SETTINGS

**Packet Size:** Number of data bytes to send

**Wait Time:** Time to wait for a response in seconds

Click **OK** to save or **DEFAULT SETTINGS** to reset back to default configuration.

Click **START** to begin Ping Test or **CLEAR** to clear the results.



# Traceroute

The Traceroute page allows you to determine the route of data transfer to a host.

**Host:** Address of host

**IPv6:** Toggle this switch to check through IPv6 protocol

## MORE SETTINGS

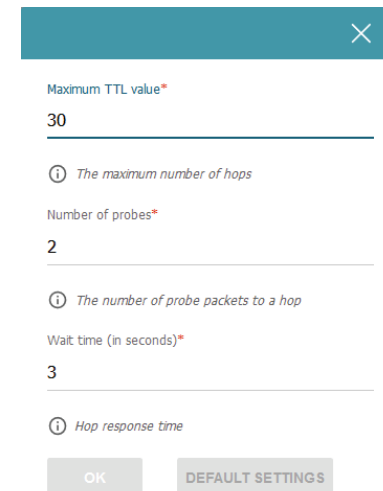
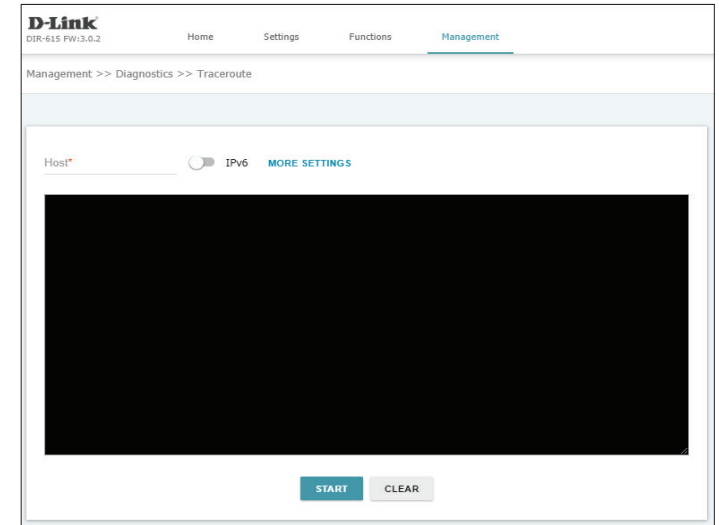
**Maximum TTL value:** Maximum number of hops

**Number of probes:** Number of probe packets to a hope

**Wait Time:** Hope response time in seconds.

Click **OK** to save or **DEFAULT SETTINGS** to reset back to default configuration.

Click **START** to begin Traceroute or **CLEAR** to clear the results.



# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-615. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

## 1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (**192.168.0.1** for example), you are not connecting to a website, nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Internet Explorer 10 or higher
  - Firefox 44 or higher
  - Safari 8 or higher
  - Chrome 48 or higher
  - Edge 20.10240 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
  - Go to **Start > Settings > Control Panel**. Double-click the **Internet Options** icon. From the **Security** tab, click the button to restore the settings to their defaults.
  - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
  - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
  - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for your web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

## 2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. This process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the bottom panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait 60 seconds or more to access the router. The default IP address is **192.168.0.1**. When you login, the wizard should start automatically.

### 3. Why can't I connect to certain sites or send and receive emails when connecting through my router?

If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL.

- Click on **Start** and then click **Run**.
- Windows® 95, 98, and Me users type in **command** (Windows® NT, 2000, XP, Vista®, and 7 users type in **cmd**) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

**ping [url] [-f] [-l] [MTU value]**

Example: **ping yahoo.com -f -l 1472**

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms
C:\>
```

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, let's say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with ( $1452+28=1480$ ).

Once you find your MTU, you can now configure your router with the proper MTU size.

To change the MTU rate on your router follow the steps below:

- Open your browser, enter the IP address of your router (192.168.0.1) and click **OK**.
- Enter your username (admin) and password (previously specified). Click **Login** to enter the web configuration page for the device.
- In the **Settings** menu on the bar at the top of the page, click on Internet and then go to the **WAN** page. From there click on **Edit** and go to the **All Settings** tab.
- To change the MTU, enter the number in the MTU field and click **Apply** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.



# Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business, or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when, and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people work, and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A wireless router is a device used to provide this link.

## **What is Wireless?**

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly so you have the freedom to connect computers anywhere in your home or office network.

## **Why D-Link Wireless?**

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

## **How does wireless work?**

Wireless works similarly to how cordless phones work, through radio signals that transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks: Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

### **Wireless Local Area Network (WLAN)**

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, university and high school campuses, airports, golf courses, and many other outdoor venues.

## **Wireless Personal Area Network (WPAN)**

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away.

Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power. This makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

## **Who uses wireless?**

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

### **Home Uses/Benefits**

- Gives everyone at home broadband access
- Surf the web, check email, instant message, etc.
- Gets rid of the cables around the house
- Simple and easy to use

### **Small Office and Home Office Uses/Benefits**

- Stay on top of everything at home as you would at office
- Remotely access your office network from home
- Share Internet connection and printer with multiple computers
- No need to dedicate office space

## **Where is wireless used?**

Wireless technology is expanding everywhere, not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a D-Link USB adapter with your laptop, you can access the hotspot to connect to the Internet from remote locations like: airports, hotels, coffee shops, libraries, restaurants, and convention centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

## **Tips**

Here are a few things to keep in mind, when you install a wireless network.

### **Centralize your router or access point**

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

### **Eliminate Interference**

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

### **Security**

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to the product manual for detail information on how to set it up.

# Wireless Modes

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-hoc** – Directly connecting to another computer for peer-to-peer communication using wireless network adapters on each computer, such as two or more DIR-615 wireless network USB adapters.

An Infrastructure network contains an access point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-hoc network contains only clients, such as laptops with wireless USB adapters. All the adapters must be in Ad-hoc mode to communicate.

# Networking Basics

## Check your IP address

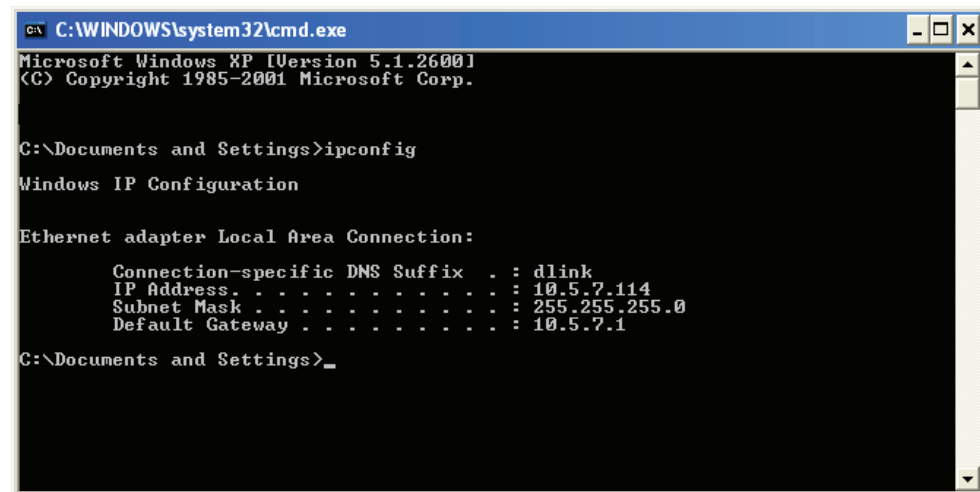
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start** > **Run**. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type **cmd** in the **Start Search** box.)

At the prompt, type **ipconfig** and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address . . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

## Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

### Step 1

Windows® 10 - Click on **Start > Windows System > Control Panel > Network and Internet > Network and Sharing Center.**

Windows® 7 - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center.**

Windows Vista® - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections.**

Windows® XP - Click on **Start > Control Panel > Network Connections.**

Windows® 2000 - From the desktop, right-click **My Network Places > Properties.**

### Step 2

Right-click on the **Local Area Connection** which represents your network adapter and select **Properties.**

### Step 3

Highlight **Internet Protocol (TCP/IP)** and click **Properties.**

### Step 4

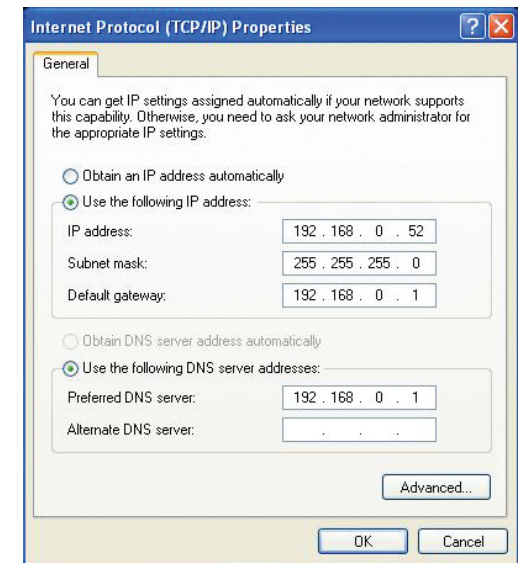
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

### Step 5

Click **OK** twice to save your settings.



## Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-615 offers the following types of security:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)
- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

### What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?\*&\_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.



# Technical Specifications

## Device Interfaces

- Wireless Interface (2.4 GHz): IEEE 802.11n/g/b
- Four 10/100 Mbps LAN ports
- One 10/100 Mbps WAN port

## Antenna Types

- Four external antennas

## Standards

- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.3
- IEEE 802.3u

## Security

- WPA™ - Personal/Enterprise
- WPA2™ - Personal/Enterprise
- Wi-Fi Protected Setup (WPS)

## Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 9 V DC, 0.6 A

## Temperature

- Operating: 0 to 40 °C (32 to 104 °F)
- Storage: -20 to 65 °C (-4 to 149 °F)

## Humidity

- Operating: 10% to 90% maximum, non-condensing
- Storage: 5% to 95% maximum, non-condensing

## Certifications

- FCC
- CE

## Dimensions & Weight

- L x W x H: 130.5 x 129.8 x 34.0 mm (5.14 x 5.11 x 1.34 in)
- 440 grams (0.97 lbs)

1 Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

# Regulatory Statements

## ErP Power Usage

This device is an Energy Related Product (ErP) that automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.

Network Standby: 0 watts

Switched Off: 0 watts

## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Non-modifications Statement:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

### **Note**

The country code selection is for non-USA models only and is not available to all USA models. Per FCC regulations, all WiFi product marketed in the USA must be fixed to USA operational channels only.

### **IMPORTANT NOTICE:**

#### **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.



	<b>Frequency Band(s)</b> <b>Frequenzband</b> <b>Fréquence bande(s)</b> <b>Bandas de Frecuencia</b> <b>Frequenza/e</b> <b>Frequentie(s)</b>	<b>Max. Output Power (EIRP)</b> <b>Max. Output Power</b> <b>Consommation d'énergie max.</b> <b>Potencia máxima de Salida</b> <b>Potenza max. Output</b> <b>Max. Output Power</b>
5 G	5.15 – 5.25 GHz	200 mW
	5.25 – 5.35 GHz	200 mW
	5.47 – 5.725 GHz	1 W
2.4 G	2.4 – 2.4835 GHz	100 mW

## European Community Declaration of Conformity:

Česky [Czech]	Tímto D-Link Corporation prohlašuje, že tento produkt, jeho příslušenství a software jsou v souladu se směrnicí 2014/53/EU. Celý text ES prohlášení o shodě vydaného EU a o firmwaru produktu lze stáhnout na stránkách k produktu <a href="http://www.dlink.com">www.dlink.com</a> .
Dansk [Danish]	D-Link Corporation erklærer herved, at dette produkt, tilbehør og software er i overensstemmelse med direktiv 2014/53/EU. Den fulde tekst i EU-overensstemmelseserklæringen og produktfirmware kan wnloades fra produktsiden hos <a href="http://www.dlink.com">www.dlink.com</a> .
Deutsch [German]	Hiermit erklärt die D-Link Corporation, dass dieses Produkt, das Zubehör und die Software der Richtlinie 2014/53/EU entsprechen. Der vollständige Text der Konformitätserklärung der Europäischen Gemeinschaft sowie die Firmware zum Produkt stehen Ihnen zum Herunterladen von der Produktseite im Internet auf <a href="http://www.dlink.com">www.dlink.com</a> zur Verfügung.
Eesti [Estonian]	Käesolevaga kinnitab D-Link Corporation, et see toode, tarvikud ja tarkvara on kooskõlas direktiiviga 2014/53/EL. Euroopa Liidu vastavusdeklaratsiooni täistekst ja toote püsivara on allalaadimiseks saadaval tootelehel <a href="http://www.dlink.com">www.dlink.com</a> .
English	Hereby, D-Link Corporation, declares that this product, accessories, and software are in compliance with directive 2014/53/EU. The full text of the EU Declaration of Conformity and product firmware are available for download from the product page at <a href="http://www.dlink.com">www.dlink.com</a>
Español [Spanish]	Por la presente, D-Link Corporation declara que este producto, accesorios y software cumplen con las directivas 2014/53/UE. El texto completo de la declaración de conformidad de la UE y el firmware del producto están disponibles y se pueden descargar desde la página del producto en <a href="http://www.dlink.com">www.dlink.com</a> .
Ελληνική [Greek]	Με την παρούσα, η D-Link Corporation δηλώνει ότι αυτό το προϊόν, τα αξεσουάρ και το λογισμικό συμμορφώνονται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ και το υλικολογισμικό του προϊόντος είναι διαθέσιμα για λήψη από τη σελίδα του προϊόντος στην τοποθεσία <a href="http://www.dlink.com">www.dlink.com</a> .
Français [French]	Par les présentes, D-Link Corporation déclare que ce produit, ces accessoires et ce logiciel sont conformes aux directives 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE et le icroprogramme du produit sont disponibles au téléchargement sur la page des produits à <a href="http://www.dlink.com">www.dlink.com</a> .
Italiano [Italian]	Con la presente, D-Link Corporation dichiara che questo prodotto, i relativi accessori e il software sono conformi alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE e il firmware del prodotto sono disponibili per il download dalla pagina del prodotto su <a href="http://www.dlink.com">www.dlink.com</a> .

Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē <a href="http://www.dlink.com">www.dlink.com</a> .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekstą ir gaminio programinę aparatinę įrangą galima atsisiųsti iš gaminio puslapio adresu <a href="http://www.dlink.com">www.dlink.com</a> .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op <a href="http://www.dlink.com">www.dlink.com</a> .
Malti [Maltese]	Bil-preżenti, D-Link Corporation tiddikjara li dan il-prodott, l-aċessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tniżżel it-test s'hiñ tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq <a href="http://www.dlink.com">www.dlink.com</a> .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékai és szoftvere megfelelnek a 2014/53/EU sz. rendeletnek. Az EU Megfelelőségi nyilatkozat teljes szövege és a termék firmware a termék oldaláról tölthető le a <a href="http://www.dlink.com">www.dlink.com</a> címen.
Polski [Polish]	D-Link Corporation niniejszym oświadcza, że ten produkt, akcesoria oraz oprogramowanie są zgodne z dyrektywami 2014/53/EU. Pełen tekst deklaracji zgodności UE oraz oprogramowanie sprzętowe do produktu można pobrać na stronie produktu w witrynie <a href="http://www.dlink.com">www.dlink.com</a> .
Português [Portuguese]	Desta forma, a D-Link Corporation declara que este produto, os acessórios e o software estão em conformidade com a diretiva 2014/53/UE. O texto completo da declaração de conformidade da UE e do firmware
Slovensko[Slovenian]	Podjetje D-Link Corporation s tem izjavlja, da so ta izdelki, dodatna oprema in programnska oprema skladni z direktivami 2014/53/EU. Celotno besedilo izjave o skladnosti EU in vdelana programska oprema sta na voljo za prenos na strani izdelka na <a href="http://www.dlink.com">www.dlink.com</a> .
Slovensky [Slovak]	Spoločnosť D-Link týmto vyhlasuje, že tento produkt, príslušenstvo a softvér sú v súlade so smernicou 2014/53/EÚ. Úplné znenie vyhlásenia EÚ o zhode a firmvéri produktu sú k dispozícii na prevzatie zo stránky produktu <a href="http://www.dlink.com">www.dlink.com</a> .
Suomi [Finnish]	D-Link Corporation täten vakuuttaa, että tämä tuote, lisävarusteet ja ohjelmisto ovat direktiivin 2014/53/EU vaatimusten mukaisia. Täydellinen EU-vaatimustenmukaisuusvakuutus samoin kuin tuotteen laiteohjelmisto ovat ladattavissa osoitteesta <a href="http://www.dlink.com">www.dlink.com</a> .

Svenska [Swedish]	D-Link Corporation försäkrar härmed att denna produkt, tillbehör och programvara överensstämmer med direktiv 2014/53/EU. Hela texten med EU-försäkran om överensstämmelse och produkt-firmware kan hämtas från produktsidan på <a href="http://www.dlink.com">www.dlink.com</a> .
Íslenska [Icelandic]	Hér með lýsir D-Link Corporation því yfir að þessi vara, fylgihlutir og hugbúnaður eru í samræmi við tilskipun 2014/53/EB. Sækja má ESB-samræmisýfirlýsinguna í heild sinni og fastbúnað vörunnar af vefsíðu vörunnar á <a href="http://www.dlink.com">www.dlink.com</a> .
Norsk [Norwegian]	Herved erklærer D-Link Corporation at dette produktet, tilbehøret og programvaren er i samsvar med direktivet 2014/53/EU. Den fullstendige teksten i EU-erklæring om samsvar og produktets fastvare er tilgjengelig for nedlasting fra produktsiden på <a href="http://www.dlink.com">www.dlink.com</a> .

**Warning Statement:**

The power outlet should be near the device and easily accessible.

### **NOTICE OF WIRELESS RADIO LAN USAGE IN THE EUROPEAN COMMUNITY (FOR WIRELESS PRODUCT ONLY):**

- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries. This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and CY.

#### **Usage Notes:**

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

### **HINWEIS ZUR VERWENDUNG VON DRAHTLOS-NETZWERK (WLAN) IN DER EUROPÄISCHEN GEMEINSCHAFT ( NUR FÜR EIN DRAHTLOSES PRODUKT )**

- Der Betrieb dieses Geräts in der Europäischen Gemeinschaft bei Nutzung von Kanälen im 5,15-5,35 GHz Frequenzband ist ausschließlich auf Innenräume beschränkt, um das Interferenzpotential zu reduzieren.
- Bei diesem Gerät handelt es sich um ein zum Einsatz in allen EU-Mitgliedsstaaten und in EFTA-Ländern - ausgenommen Frankreich. Der Betrieb dieses Geräts ist in den folgenden Ländern erlaubt: AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebrauchshinweise:**

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- Access Points unterstützen die Funktionen DFS (Dynamic Frequency Selection) und TPC (Transmit Power Control) wie erforderlich bei Betrieb auf 5 GHz innerhalb der EU.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach, ob Ihr Gerät eine 2,4 GHz und / oder 5 GHz Verbindung nutzt.



## **AVIS CONCERNANT L'UTILISATION DE LA RADIO SANS FIL LAN DANS LA COMMUNAUTÉ EUROPÉENNE (UNIQUEMENT POUR LES PRODUITS SANS FIL)**

- Cet appareil est limité à un usage intérieur lorsqu'il est utilisé dans la Communauté européenne sur les canaux de la bande de 5,15 à 5,35 GHz afin de réduire les risques d'interférences.
- Cet appareil est un système de transmission à large bande (émetteur-récepteur) de 2,4 GHz, destiné à être utilisé dans tous les États-membres de l'UE et les pays de l'AELE. Cet équipement peut être utilisé dans les pays suivants : AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notes d'utilisation:**

- Pour rester en conformité avec la réglementation nationale européenne en matière d'utilisation du spectre, des limites de fréquence et de canal seront appliquées aux produits selon le pays où l'équipement sera déployé.
- Cet appareil ne peut pas utiliser le mode Ad-hoc lorsqu'il fonctionne dans la bande de 5 GHz. Le mode Adhoc fournit une communication directe pair à pair entre deux périphériques clients sans point d'accès.
- Les points d'accès prendront en charge les fonctionnalités DFS (Dynamic Frequency Selection) et TPC (Transmit Power Control) au besoin lors du fonctionnement dans la bande de 5 GHz au sein de l'UE.
- Merci de vous référer au guide d'utilisation ou de la fiche technique afin de vérifier si votre produit utilise 2.4 GHz et/ou 5 GHz sans fil.

## **AVISO DE USO DE LA LAN DE RADIO INALÁMBRICA EN LA COMUNIDAD EUROPEA (SOLO PARA EL PRODUCTO INALÁMBRICO)**

- El uso de este dispositivo está restringido a interiores cuando funciona en la Comunidad Europea utilizando canales en la banda de 5,15-5,35 GHz, para reducir la posibilidad de interferencias.
- Este dispositivo es un sistema de transmisión (transceptor) de banda ancha de 2,4 GHz, pensado para su uso en todos los estados miembros de la UE y en los países de la AELC. Este equipo se puede utilizar en AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notas de uso:**

- Para seguir cumpliendo las normas europeas de uso del espectro nacional, se aplicarán limitaciones de frecuencia y canal en los productos en función del país en el que se pondrá en funcionamiento el equipo.
- Este dispositivo tiene restringido el funcionamiento en modo Ad-hoc mientras funcione a 5 Ghz. El modo Ad-hoc es la comunicación directa de igual a igual entre dos dispositivos cliente sin un punto de acceso.
- Los puntos de acceso admitirán la funcionalidad DFS (Selección de frecuencia dinámica) y TPC (Control de la potencia de transmisión) si es necesario cuando funcionan a 5 Ghz dentro de la UE.
- Por favor compruebe el manual o la ficha de producto para comprobar si el producto utiliza las bandas inalámbricas de 2.4 GHz y/o la de 5 GHz.

### **AVVISO PER L'USO DI LAN RADIO WIRELESS NELLA COMUNITÀ EUROPEA (SOLO PER PRODOTTI WIRELESS)**

- Nella Comunità europea, l'uso di questo dispositivo è limitato esclusivamente agli ambienti interni sui canali compresi nella banda da 5,15 a 5,35 GHz al fine di ridurre potenziali interferenze. Questo dispositivo è un sistema di trasmissione a banda larga a 2,4 GHz (ricetrasmittente), destinato all'uso in tutti gli stati membri dell'Unione europea e nei paesi EFTA.
- Questo dispositivo può essere utilizzato in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Note per l'uso**

- Al fine di mantenere la conformità alle normative nazionali europee per l'uso dello spettro di frequenze, saranno applicate limitazioni sulle frequenze e sui canali per il prodotto in conformità alle normative del paese in cui il dispositivo viene utilizzato.
- Questo dispositivo non può essere attivato in modalità Ad-hoc durante il funzionamento a 5 GHz. La modalità Ad-hoc è una comunicazione diretta peer-to-peer fra due dispositivi client senza un punto di accesso.
- I punti di accesso supportano le funzionalità DFS (Dynamic Frequency Selection) e TPC (Transmit Power Control) richieste per operare a 5 GHz nell'Unione europea.
- Ti invitiamo a fare riferimento al manuale del prodotto o alla scheda tecnica per verificare se il tuo prodotto utilizza le frequenze 2,4 GHz e/o 5 GHz.

### **KENNISGEVING VAN DRAADLOOS RADIO LAN-GEbruik IN DE EUROPESE GEMEENSCHAP (ALLEEN VOOR DRAADLOOS PRODUCT)**

- Dit toestel is beperkt tot gebruik binnenshuis wanneer het wordt gebruikt in de Europese Gemeenschap gebruik makend van kanalen in de 5.15-5.35 GHz band om de kans op interferentie te beperken.
- Dit toestel is een 2.4 GHz breedband transmissiesysteem (transceiver) dat bedoeld is voor gebruik in alle EU lidstaten en EFTA landen. Deze uitrusting mag gebruikt worden in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebruiksaanwijzingen:**

- Om de gebruiksvoorschriften van het Europese Nationale spectrum na te leven, zullen frequentie- en kanaalbeperkingen worden toegepast op de producten volgens het land waar de uitrusting gebruikt zal worden.
- Dit toestel kan niet functioneren in Ad-hoc mode wanneer het gebruikt wordt in 5 GHz. Ad-hoc mode is directe peer-to-peer communicatie tussen twee klantenapparaten zonder een toegangspunt.
- Toegangspunten ondersteunen DFS (Dynamic Frequency Selection) en TPC (Transmit Power Control) functionaliteit zoals vereist bij gebruik in 5 GHz binnen de EU.
- Raadpleeg de handleiding of de datasheet om te controleren of uw product gebruik maakt van 2.4 GHz en/of 5 GHz.

## **SAFETY INSTRUCTIONS**

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

## **SICHERHEITSVORSCHRIFTEN**

Die folgenden allgemeinen Sicherheitsvorschriften dienen als Hilfe zur Gewährleistung Ihrer eigenen Sicherheit und zum Schutz Ihres Produkts. Weitere Details finden Sie in den Benutzeranleitungen zum Produkt.

- Statische Elektrizität kann elektronischen Komponenten schaden. Um Schäden durch statische Aufladung zu vermeiden, leiten Sie elektrostatische Ladungen von Ihrem Körper ab, (z. B. durch Berühren eines geerdeten blanken Metallteils), bevor Sie das Produkt berühren.
- Unterlassen Sie jeden Versuch, das Produkt zu warten, und versuchen Sie nicht, es in seine Bestandteile zu zerlegen. Für einige Produkte mit austauschbaren Akkus lesen Sie bitte das Benutzerhandbuch und befolgen Sie die dort beschriebenen Anleitungen.
- Vermeiden Sie, dass Speisen oder Flüssigkeiten auf Ihr Produkt gelangen, und stecken Sie keine Gegenstände in die Gehäuseschlitze oder -öffnungen Ihres Produkts.
- Verwenden Sie dieses Produkt nicht in unmittelbarer Nähe von Wasser und nicht in Bereichen mit hoher Luftfeuchtigkeit oder Kondensation, es sei denn, es ist speziell zur Nutzung in Außenbereichen vorgesehen und eingestuft.
- Halten Sie das Produkt von Heizkörpern und anderen Quellen fern, die Wärme erzeugen.
- Trennen Sie das Produkt immer von der Stromzufuhr, bevor Sie es reinigen und verwenden Sie dazu ausschließlich ein trockenes fusselfreies Tuch.

## **CONSIGNES DE SÉCURITÉ**

Les consignes générales de sécurité ci-après sont fournies afin d'assurer votre sécurité personnelle et de protéger le produit d'éventuels dommages. Veuillez consulter les consignes d'utilisation du produit pour plus de détails.

- L'électricité statique peut endommager les composants électroniques. Déchargez l'électricité statique de votre corps (en touchant un objet en métal relié à la terre par exemple) avant de toucher le produit.
- N'essayez pas d'intervenir sur le produit et ne le démontez jamais. Pour certains produits contenant une batterie remplaçable par l'utilisateur, veuillez lire et suivre les consignes contenues dans le manuel d'utilisation.
- Ne renversez pas d'aliments ou de liquide sur le produit et n'insérez jamais d'objets dans les orifices.
- N'utilisez pas ce produit à proximité d'un point d'eau, de zones très humides ou de condensation sauf si le produit a été spécifiquement conçu pour une application extérieure.
- Éloignez le produit des radiateurs et autres sources de chaleur.
- Débranchez toujours le produit de l'alimentation avant de le nettoyer et utilisez uniquement un chiffon sec non pelucheux.

## **INSTRUCCIONES DE SEGURIDAD**

Las siguientes directrices de seguridad general se facilitan para ayudarle a garantizar su propia seguridad personal y para proteger el producto frente a posibles daños. No olvide consultar las instrucciones del usuario del producto para obtener más información.

- La electricidad estática puede resultar nociva para los componentes electrónicos. Descargue la electricidad estática de su cuerpo (p. ej., tocando algún metal sin revestimiento conectado a tierra) antes de tocar el producto.
- No intente realizar el mantenimiento del producto ni lo desmonte nunca. Para algunos productos con batería reemplazable por el usuario, lea y siga las instrucciones del manual de usuario.
- No derrame comida o líquidos sobre el producto y nunca deje que caigan objetos en las aberturas del mismo.
- No utilice este producto cerca del agua, en zonas con humedad o condensación elevadas a menos que el producto esté clasificado específicamente para aplicación en exteriores.
- Mantenga el producto alejado de los radiadores y de otras fuentes de calor.
- Desenchufe siempre el producto de la alimentación de red antes de limpiarlo y utilice solo un paño seco sin pelusa.

## **ISTRUZIONI PER LA SICUREZZA**

Le seguenti linee guida sulla sicurezza sono fornite per contribuire a garantire la sicurezza personale degli utenti e a proteggere il prodotto da potenziali danni. Per maggiori dettagli, consultare le istruzioni per l'utente del prodotto.

- L'elettricità statica può essere pericolosa per i componenti elettronici. Scaricare l'elettricità statica dal corpo (ad esempio toccando una parte metallica collegata a terra) prima di toccare il prodotto.
- Non cercare di riparare il prodotto e non smontarlo mai. Per alcuni prodotti dotati di batteria sostituibile dall'utente, leggere e seguire le istruzioni riportate nel manuale dell'utente.
- Non versare cibi o liquidi sul prodotto e non spingere mai alcun oggetto nelle aperture del prodotto.
- Non usare questo prodotto vicino all'acqua, in aree con elevato grado di umidità o soggette a condensa a meno che il prodotto non sia specificatamente approvato per uso in ambienti esterni.
- Tenere il prodotto lontano da caloriferi e altre fonti di calore.
- Scollegare sempre il prodotto dalla presa elettrica prima di pulirlo e usare solo un panno asciutto che non lasci filacce.

## **VEILIGHEIDSINFORMATIE**

De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- Statische elektriciteit kan schadelijk zijn voor elektronische componenten. Ontlaad de statische elektriciteit van uw lichaam (d.w.z. het aanraken van geaard bloot metaal) voordat u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten met door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geclassificeerd is voor gebruik buitenshuis.
- Houd het product uit de buurt van radiators en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluisvrije doek.

## Disposing of and Recycling Your Product

### ENGLISH

EN



This symbol on the product or packaging means that according to local laws and regulations this product should not be disposed of in household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

### D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit [www.dlinkgreen.com](http://www.dlinkgreen.com).

### DEUTSCH

DE



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

### D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf diese Weise helfen Sie, Energie zu sparen und CO2-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter [www.dlinkgreen.com](http://www.dlinkgreen.com).

**FRANÇAIS****FR**

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

**D-Link et l'environnement**

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO<sub>2</sub>.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ESPAÑOL****ES**

Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

**D-Link y el medio ambiente**

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.

D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO<sub>2</sub>.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ITALIANO****IT**

La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

**D-Link e l'ambiente**

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollegarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo [www.dlinkgreen.com](http://www.dlinkgreen.com).

**NEDERLANDS****NL**

Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen. Door het product en de verpakking op deze manier te recyclen helpt u het milieu en de gezondheid van de mens te beschermen.

**D-Link en het milieu**

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO<sub>2</sub>-emissies.

Breng een bezoek aan [www.dlinkgreen.com](http://www.dlinkgreen.com) voor meer informatie over onze milieuverantwoorde producten en verpakkingen.



**POLSKI****PL**

Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze. Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

**D-Link i środowisko**

D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO<sub>2</sub>.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ČESKY****CZ**

Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odnešte jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteřá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

**D-Link a životní prostředí**

Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály.

Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO<sub>2</sub>.

Více informací o našich ekologických výrobcích a obalech najdete na adrese [www.dlinkgreen.com](http://www.dlinkgreen.com).

**MAGYAR****HU**

Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

**A D-Link és a környezet**

A D-Linknél megértjük és elkötelezettek vagyunk a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyag-tartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy mindig kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a [www.dlinkgreen.com](http://www.dlinkgreen.com) weboldalon tudhat meg.

**NORSK****NO**

Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

**D-Link og miljøet**

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet. For å minimalisere denne innvirkningen designer og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO2-utslipp.

For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til [www.dlinkgreen.com](http://www.dlinkgreen.com).

**DANSK****DK**

Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

**D-Link og miljøet**

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designer og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO<sub>2</sub>-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SUOMI****FI**

Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti tätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteeseen. Kierrättämällä käytetyn tuotteen ja sen pakkauksen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

**D-Link ja ympäristö**

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakkauksissa.

Suosittellemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammutat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat säästämään energiaa ja vähentämään hiilidioksiidipäästöjä.

Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakkauksistamme osoitteesta [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SVENSKA****SE**

Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda människors hälsa.

**D-Link och miljön**

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar [www.dlinkgreen.com](http://www.dlinkgreen.com).

**PORTUGUÊS****PT**

Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

**A D-Link e o ambiente**

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO<sub>2</sub>.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite [www.dlinkgreen.com](http://www.dlinkgreen.com).

### **NOTICE OF WIRELESS RADIO LAN USAGE IN THE EUROPEAN COMMUNITY (FOR WIRELESS PRODUCT ONLY):**

- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries. This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and CY.

#### **Usage Notes:**

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

### **HINWEIS ZUR VERWENDUNG VON DRAHTLOS-NETZWERK (WLAN) IN DER EUROPÄISCHEN GEMEINSCHAFT ( NUR FÜR EIN DRAHTLOSES PRODUKT )**

- Der Betrieb dieses Geräts in der Europäischen Gemeinschaft bei Nutzung von Kanälen im 5,15-5,35 GHz Frequenzband ist ausschließlich auf Innenräume beschränkt, um das Interferenzpotential zu reduzieren.
- Bei diesem Gerät handelt es sich um ein zum Einsatz in allen EU-Mitgliedsstaaten und in EFTA-Ländern - ausgenommen Frankreich. Der Betrieb dieses Geräts ist in den folgenden Ländern erlaubt: AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebrauchshinweise:**

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- Access Points unterstützen die Funktionen DFS (Dynamic Frequency Selection) und TPC (Transmit Power Control) wie erforderlich bei Betrieb auf 5 GHz innerhalb der EU.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach nach, ob Ihr Gerät eine 2,4 GHz und / oder 5 GHz Verbindung nutzt.

## **AVIS CONCERNANT L'UTILISATION DE LA RADIO SANS FIL LAN DANS LA COMMUNAUTÉ EUROPÉENNE (UNIQUEMENT POUR LES PRODUITS SANS FIL)**

- Cet appareil est limité à un usage intérieur lorsqu'il est utilisé dans la Communauté européenne sur les canaux de la bande de 5,15 à 5,35 GHz afin de réduire les risques d'interférences.
- Cet appareil est un système de transmission à large bande (émetteur-récepteur) de 2,4 GHz, destiné à être utilisé dans tous les États-membres de l'UE et les pays de l'AELE. Cet équipement peut être utilisé dans les pays suivants : AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notes d'utilisation:**

- Pour rester en conformité avec la réglementation nationale européenne en matière d'utilisation du spectre, des limites de fréquence et de canal seront appliquées aux produits selon le pays où l'équipement sera déployé.
- Cet appareil ne peut pas utiliser le mode Ad-hoc lorsqu'il fonctionne dans la bande de 5 GHz. Le mode Adhoc fournit une communication directe pair à pair entre deux périphériques clients sans point d'accès.
- Les points d'accès prendront en charge les fonctionnalités DFS (Dynamic Frequency Selection) et TPC (Transmit Power Control) au besoin lors du fonctionnement dans la bande de 5 GHz au sein de l'UE.
- Merci de vous référer au guide d'utilisation ou de la fiche technique afin de vérifier si votre produit utilise 2.4 GHz et/ou 5 GHz sans fil.

## **AVISO DE USO DE LA LAN DE RADIO INALÁMBRICA EN LA COMUNIDAD EUROPEA (SOLO PARA EL PRODUCTO INALÁMBRICO)**

- El uso de este dispositivo está restringido a interiores cuando funciona en la Comunidad Europea utilizando canales en la banda de 5,15-5,35 GHz, para reducir la posibilidad de interferencias.
- Este dispositivo es un sistema de transmisión (transceptor) de banda ancha de 2,4 GHz, pensado para su uso en todos los estados miembros de la UE y en los países de la AELC. Este equipo se puede utilizar en AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notas de uso:**

- Para seguir cumpliendo las normas europeas de uso del espectro nacional, se aplicarán limitaciones de frecuencia y canal en los productos en función del país en el que se pondrá en funcionamiento el equipo.
- Este dispositivo tiene restringido el funcionamiento en modo Ad-hoc mientras funcione a 5 Ghz. El modo Ad-hoc es la comunicación directa de igual a igual entre dos dispositivos cliente sin un punto de acceso.
- Los puntos de acceso admitirán la funcionalidad DFS (Selección de frecuencia dinámica) y TPC (Control de la potencia de transmisión) si es necesario cuando funcionan a 5 Ghz dentro de la UE.
- Por favor compruebe el manual o la ficha de producto para comprobar si el producto utiliza las bandas inalámbricas de 2.4 GHz y/o la de 5 GHz.

## **AVVISO PER L'USO DI LAN RADIO WIRELESS NELLA COMUNITÀ EUROPEA (SOLO PER PRODOTTI WIRELESS)**

- Nella Comunità europea, l'uso di questo dispositivo è limitato esclusivamente agli ambienti interni sui canali compresi nella banda da 5,15 a 5,35 GHz al fine di ridurre potenziali interferenze. Questo dispositivo è un sistema di trasmissione a banda larga a 2,4 GHz (ricetrasmittente), destinato all'uso in tutti gli stati membri dell'Unione europea e nei paesi EFTA.
- Questo dispositivo può essere utilizzato in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Note per l'uso**

- Al fine di mantenere la conformità alle normative nazionali europee per l'uso dello spettro di frequenze, saranno applicate limitazioni sulle frequenze e sui canali per il prodotto in conformità alle normative del paese in cui il dispositivo viene utilizzato.
- Questo dispositivo non può essere attivato in modalità Ad-hoc durante il funzionamento a 5 GHz. La modalità Ad-hoc è una comunicazione diretta peer-to-peer fra due dispositivi client senza un punto di accesso.
- I punti di accesso supportano le funzionalità DFS (Dynamic Frequency Selection) e TPC (Transmit Power Control) richieste per operare a 5 GHz nell'Unione europea.
- Ti invitiamo a fare riferimento al manuale del prodotto o alla scheda tecnica per verificare se il tuo prodotto utilizza le frequenze 2,4 GHz e/o 5 GHz.

## **KENNISGEVING VAN DRAADLOOS RADIO LAN-GEbruik IN DE EUROPESE GEMEENSCHAP (ALLEEN VOOR DRAADLOOS PRODUCT)**

- Dit toestel is beperkt tot gebruik binnenshuis wanneer het wordt gebruikt in de Europese Gemeenschap gebruik makend van kanalen in de 5.15-5.35 GHz band om de kans op interferentie te beperken.
- Dit toestel is een 2.4 GHz breedband transmissiesysteem (transceiver) dat bedoeld is voor gebruik in alle EU lidstaten en EFTA landen. Deze uitrusting mag gebruikt worden in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Gebruiksaanwijzingen:**

- Om de gebruiksvoorschriften van het Europese Nationale spectrum na te leven, zullen frequentie- en kanaalbeperkingen worden toegepast op de producten volgens het land waar de uitrusting gebruikt zal worden.
- Dit toestel kan niet functioneren in Ad-hoc mode wanneer het gebruikt wordt in 5 GHz. Ad-hoc mode is directe peer-to-peer communicatie tussen twee klantenapparaten zonder een toegangspunt.
- Toegangspunten ondersteunen DFS (Dynamic Frequency Selection) en TPC (Transmit Power Control) functionaliteit zoals vereist bij gebruik in 5 GHz binnen de EU.
- Raadpleeg de handleiding of de datasheet om te controleren of uw product gebruik maakt van 2.4 GHz en/of 5 GHz.

## **SAFETY INSTRUCTIONS**

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

## **SICHERHEITSVORSCHRIFTEN**

Die folgenden allgemeinen Sicherheitsvorschriften dienen als Hilfe zur Gewährleistung Ihrer eigenen Sicherheit und zum Schutz Ihres Produkts. Weitere Details finden Sie in den Benutzeranleitungen zum Produkt.

- Statische Elektrizität kann elektronischen Komponenten schaden. Um Schäden durch statische Aufladung zu vermeiden, leiten Sie elektrostatische Ladungen von Ihrem Körper ab, (z. B. durch Berühren eines geerdeten blanken Metallteils), bevor Sie das Produkt berühren.
- Unterlassen Sie jeden Versuch, das Produkt zu warten, und versuchen Sie nicht, es in seine Bestandteile zu zerlegen. Für einige Produkte mit austauschbaren Akkus lesen Sie bitte das Benutzerhandbuch und befolgen Sie die dort beschriebenen Anleitungen.
- Vermeiden Sie, dass Speisen oder Flüssigkeiten auf Ihr Produkt gelangen, und stecken Sie keine Gegenstände in die Gehäuseschlitze oder -öffnungen Ihres Produkts.
- Verwenden Sie dieses Produkt nicht in unmittelbarer Nähe von Wasser und nicht in Bereichen mit hoher Luftfeuchtigkeit oder Kondensation, es sei denn, es ist speziell zur Nutzung in Außenbereichen vorgesehen und eingestuft.
- Halten Sie das Produkt von Heizkörpern und anderen Quellen fern, die Wärme erzeugen.
- Trennen Sie das Produkt immer von der Stromzufuhr, bevor Sie es reinigen und verwenden Sie dazu ausschließlich ein trockenes fusselfreies Tuch.



## **CONSIGNES DE SÉCURITÉ**

Les consignes générales de sécurité ci-après sont fournies afin d'assurer votre sécurité personnelle et de protéger le produit d'éventuels dommages. Veuillez consulter les consignes d'utilisation du produit pour plus de détails.

- L'électricité statique peut endommager les composants électroniques. Déchargez l'électricité statique de votre corps (en touchant un objet en métal relié à la terre par exemple) avant de toucher le produit.
- N'essayez pas d'intervenir sur le produit et ne le démontez jamais. Pour certains produits contenant une batterie remplaçable par l'utilisateur, veuillez lire et suivre les consignes contenues dans le manuel d'utilisation.
- Ne renversez pas d'aliments ou de liquide sur le produit et n'insérez jamais d'objets dans les orifices.
- N'utilisez pas ce produit à proximité d'un point d'eau, de zones très humides ou de condensation sauf si le produit a été spécifiquement conçu pour une application extérieure.
- Éloignez le produit des radiateurs et autres sources de chaleur.
- Débranchez toujours le produit de l'alimentation avant de le nettoyer et utilisez uniquement un chiffon sec non pelucheux.

## **INSTRUCCIONES DE SEGURIDAD**

Las siguientes directrices de seguridad general se facilitan para ayudarle a garantizar su propia seguridad personal y para proteger el producto frente a posibles daños. No olvide consultar las instrucciones del usuario del producto para obtener más información.

- La electricidad estática puede resultar nociva para los componentes electrónicos. Descargue la electricidad estática de su cuerpo (p. ej., tocando algún metal sin revestimiento conectado a tierra) antes de tocar el producto.
- No intente realizar el mantenimiento del producto ni lo desmonte nunca. Para algunos productos con batería reemplazable por el usuario, lea y siga las instrucciones del manual de usuario.
- No derrame comida o líquidos sobre el producto y nunca deje que caigan objetos en las aberturas del mismo.
- No utilice este producto cerca del agua, en zonas con humedad o condensación elevadas a menos que el producto esté clasificado específicamente para aplicación en exteriores.
- Mantenga el producto alejado de los radiadores y de otras fuentes de calor.
- Desenchufe siempre el producto de la alimentación de red antes de limpiarlo y utilice solo un paño seco sin pelusa.

## **ISTRUZIONI PER LA SICUREZZA**

Le seguenti linee guida sulla sicurezza sono fornite per contribuire a garantire la sicurezza personale degli utenti e a proteggere il prodotto da potenziali danni. Per maggiori dettagli, consultare le istruzioni per l'utente del prodotto.

- L'elettricità statica può essere pericolosa per i componenti elettronici. Scaricare l'elettricità statica dal corpo (ad esempio toccando una parte metallica collegata a terra) prima di toccare il prodotto.
- Non cercare di riparare il prodotto e non smontarlo mai. Per alcuni prodotti dotati di batteria sostituibile dall'utente, leggere e seguire le istruzioni riportate nel manuale dell'utente.
- Non versare cibi o liquidi sul prodotto e non spingere mai alcun oggetto nelle aperture del prodotto.
- Non usare questo prodotto vicino all'acqua, in aree con elevato grado di umidità o soggette a condensa a meno che il prodotto non sia specificatamente approvato per uso in ambienti esterni.
- Tenere il prodotto lontano da caloriferi e altre fonti di calore.
- Scollegare sempre il prodotto dalla presa elettrica prima di pulirlo e usare solo un panno asciutto che non lasci filacce.

## **VEILIGHEIDSINFORMATIE**

De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- Statische elektriciteit kan schadelijk zijn voor elektronische componenten. Ontlaad de statische elektriciteit van uw lichaam (d.w.z. het aanraken van geaard bloot metaal) voordat u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten met door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geclassificeerd is voor gebruik buitenshuis.
- Houd het product uit de buurt van radiators en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluivrije doek.

## Disposing and Recycling Your Product

### ENGLISH

EN



This symbol on the product or packaging means that according to local laws and regulations this product should be not be disposed of in household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

### D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit [www.dlinkgreen.com](http://www.dlinkgreen.com).

### DEUTSCH

DE



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

### D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf diese Weise helfen Sie, Energie zu sparen und CO2-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter [www.dlinkgreen.com](http://www.dlinkgreen.com).

**FRANÇAIS****FR**

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

**D-Link et l'environnement**

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO2.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ESPAÑOL****ES**

Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

**D-Link y el medio ambiente**

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.

D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO2.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ITALIANO****IT**

La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

**D-Link e l'ambiente**

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollegarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo [www.dlinkgreen.com](http://www.dlinkgreen.com).

**NEDERLANDS****NL**

Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen. Door het product en de verpakking op deze manier te recyclen helpt u het milieu en de gezondheid van de mens te beschermen.

**D-Link en het milieu**

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO<sub>2</sub>-emissies.

Breng een bezoek aan [www.dlinkgreen.com](http://www.dlinkgreen.com) voor meer informatie over onze milieuverantwoorde producten en verpakkingen.

**POLSKI****PL**

Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze. Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

**D-Link i środowisko**

D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO<sub>2</sub>.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ČESKY****CZ**

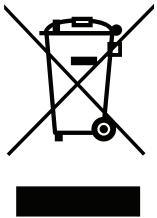
Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odnese jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteřá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

**D-Link a životní prostředí**

Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály.

Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO<sub>2</sub>.

Více informací o našich ekologických výrobcích a obalech najdete na adrese [www.dlinkgreen.com](http://www.dlinkgreen.com).

**MAGYAR****HU**

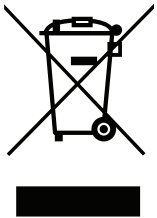
Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

**A D-Link és a környezet**

A D-Linknél megértjük és elköteleztük magunkat a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyag-tartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy mindig kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a [www.dlinkgreen.com](http://www.dlinkgreen.com) weboldalon tudhat meg.

**NORSK****NO**

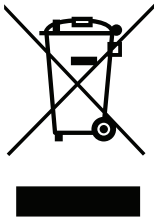
Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

**D-Link og miljøet**

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet. For å minimalisere denne innvirkningen designer og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO2-utslipp.

For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til [www.dlinkgreen.com](http://www.dlinkgreen.com).

**DANSK****DK**

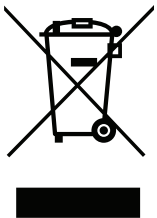
Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

**D-Link og miljøet**

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designer og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO<sub>2</sub>-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SUOMI****FI**

Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti tätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteeseen. Kierrättämällä käytetyn tuotteen ja sen pakkauksen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

**D-Link ja ympäristö**

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakkauksissa.

Suosittellemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammutat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat säästämään energiaa ja vähentämään hiilidioksiidipäästöjä.

Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakkauksistamme osoitteesta [www.dlinkgreen.com](http://www.dlinkgreen.com).



**SVENSKA****SE**

Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda människors hälsa.

**D-Link och miljön**

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar [www.dlinkgreen.com](http://www.dlinkgreen.com).

**PORTUGUÊS****PT**

Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

**A D-Link e o ambiente**

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO<sub>2</sub>.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite [www.dlinkgreen.com](http://www.dlinkgreen.com).