

USER MANUAL

DIR-457

VERSION 1.1



Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	December 10, 2009	First Draft
1.1	February 10, 2010	2 nd Revision

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Package Contents

D-Link DIR-457	
Battery	
Power Adapter	
USB Cable	
Travel Case	

Note: Using a power supply with a different voltage rating than the one included with the DIR-457 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none">• IEEE 802.11g/b wireless clients• 3G SIM card for 3G Wireless Internet
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• MicroSD card <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 6.0 or higher• Mozilla 1.7.12 or higher• Firefox 1.5 or higher• Safari 1.0 or higher (with Java 1.3.1 or higher)• Flock 0.7.14 or higher• Opera 6.0 or higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>

Features

- **Wireless Access Point** - The DIR-457 provides up to 54 Mbps* wireless connection with other 802.11g wireless clients.
- **Compatible with 802.11b Devices** - The DIR-457 is still fully compatible with the IEEE 802.11g standard, so it can connect with existing 802.11g or 802.11b devices.
- **3G Internet Connection Support** - HSDPA modem built-in to access 3G Internet Services. Download throughput up to 3.6Mbps, upload up to 384Kbps.
- **SMS Support** - SMS stored in SIM card (not included), SMS management, SMS notification.
- **VPN Support** - Passthrough support for PPTP, L2TP and IPSec.
- **Advanced Network Filter and Firewall Features** - The Web-based user interface displays a number of advanced network management features including:
 - **MAC Address Filtering** - Easily applied content filtering based on MAC Address.
 - **Firewall** - Configurable options used to prevent common methods of attack from the WAN.
- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user interface for 3G Internet and Wireless LAN.

* Maximum wireless signal rate derived from IEEE Standard 802.11g 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 conditions will adversely affect wireless signal range.

Hardware Overview

Connections



Power Receptor

USB receptor for the supplied power adapter and power cable.

Hardware Overview

Top View

3G Signal LED

A **RED** light indicates poor signal strength.

A **GREEN** light indicates normal signal strength.

A **BLUE** light indicates excellent signal strength.

A **Blinking** 3G Signal LED indicates 3G activity.

USB Connection

Connect either the USB power cable or USB power adapter to charge the battery.

Power LED

Device not plugged into a USB port:

A steady **RED** light indicates A SIM card error or no service.

A blinking **RED** light indicates the battery is low.

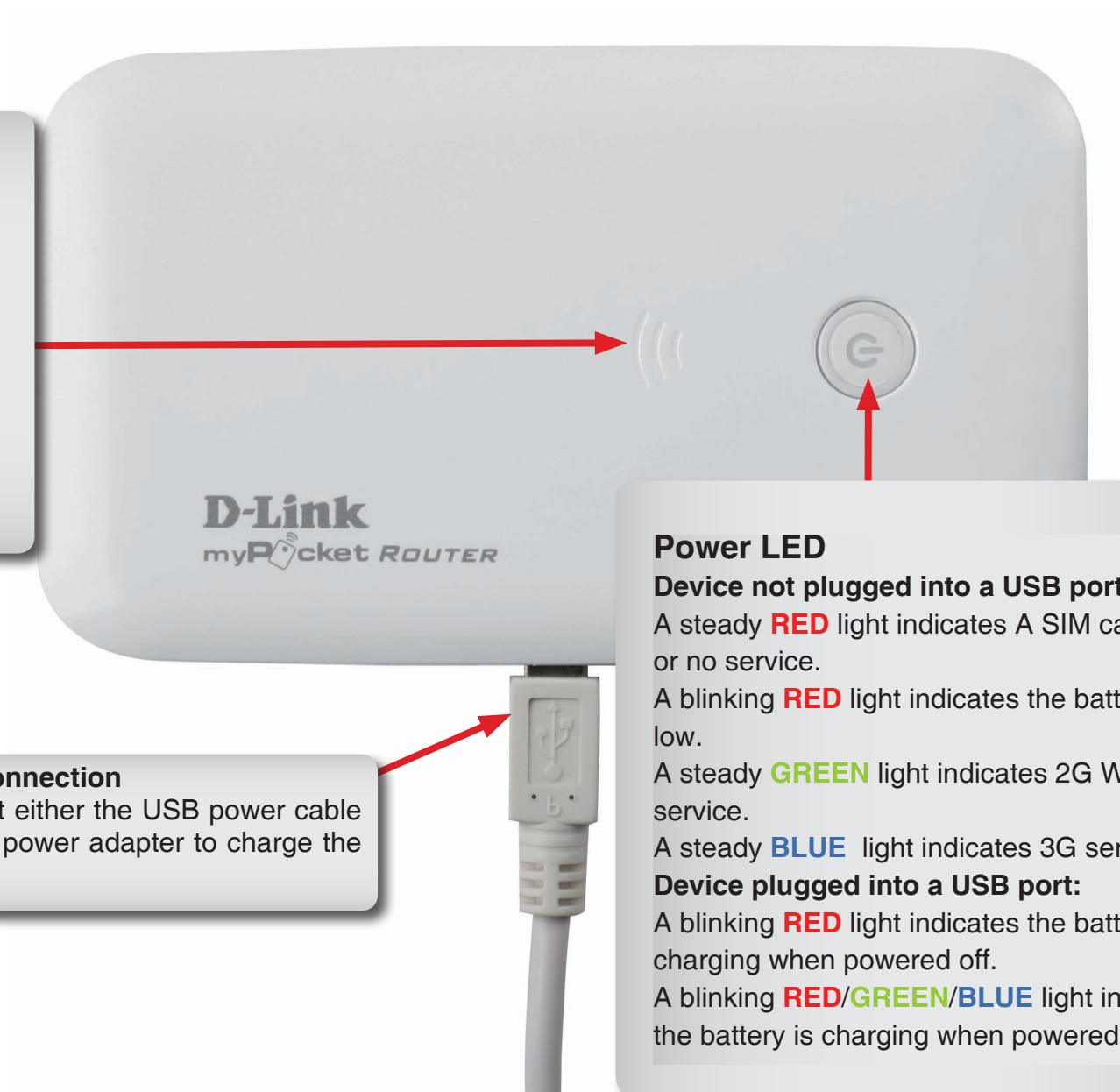
A steady **GREEN** light indicates 2G Wireless service.

A steady **BLUE** light indicates 3G service,

Device plugged into a USB port:

A blinking **RED** light indicates the battery is charging when powered off.

A blinking **RED/GREEN/BLUE** light indicates the battery is charging when powered on.



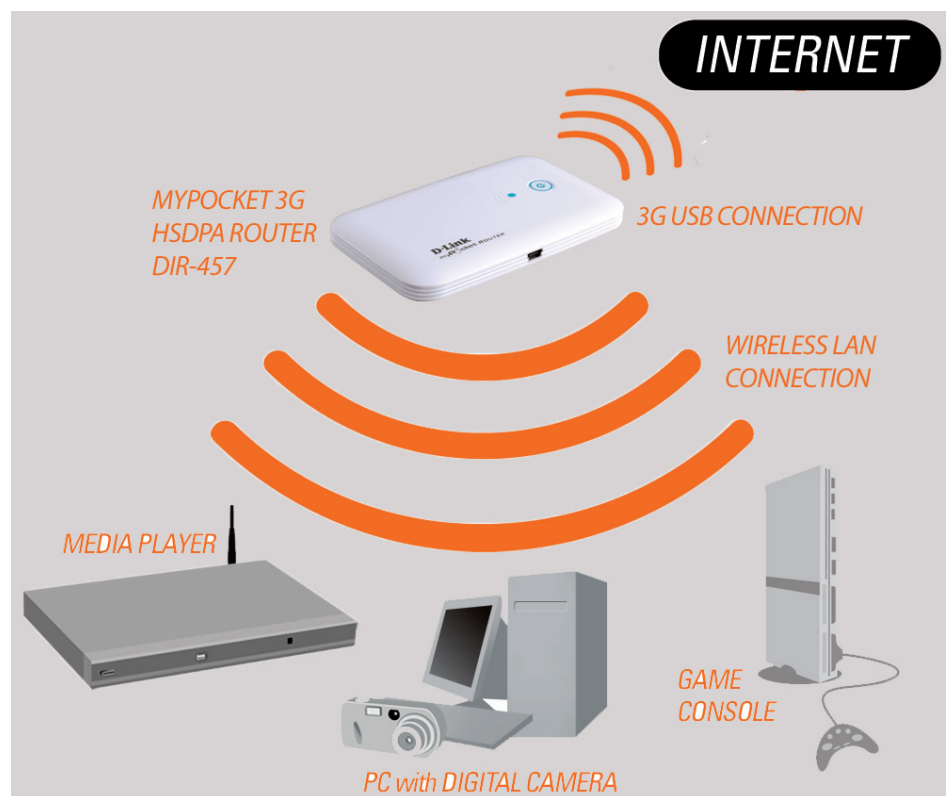
Hardware Overview

Switching Between 3G Modem Mode and Wi-Fi Router Mode

The DIR-457 features a hardware switch that enables users to switch between 3G Modem mode and Wi-Fi Router mode.

When the DIR-457 is in 3G modem mode, the device connected via the included USB cable maintains a direct 3G Internet connection. Use the Connection Manager to configure the 3G connection sharing for additional wireless devices when the DIR-457 is changed to Wi-Fi Router mode.

In Wi-Fi Router mode, the DIR-457 can share the 3G Internet connection with multiple Wi-Fi clients. Use myPocket to connect notebooks, game consoles, smart phones and other wireless clients.



Battery Facts

- It usually takes a minimum of 3 hours to fully charge the battery.
- Battery power lasts up to 4 hours in standby status.
- Battery life depends on network, signal strength, temperature, features, and accessories.
- New batteries or batteries not used for an extended period may take longer to fully charge.
- Always charge the battery at room temperature.
- The battery may perform best after several full cycles of charging and discharging.
- Store the battery uncharged in a cool, dark, dry place.
- Never expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F).
- Leaving the battery in a hot vehicle may degrade long-term performance of Li-Ion batteries..
- It is normal for batteries to gradually wear down and require longer charging times.

Installation

When using the DIR-457 in Wi-Fi router mode, placement of the device is very important. Do not place the device in an enclosed area such as a closet, cabinet, or in the attic or garage. Please install the device considering the following points:

The D-Link DIR-457 in Wi-Fi router mode lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

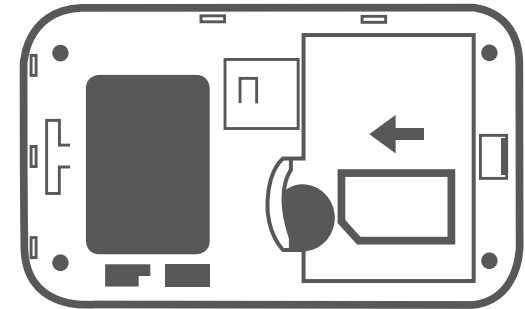
1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Product Setup

Hardware Setup

Installing the SIM Card

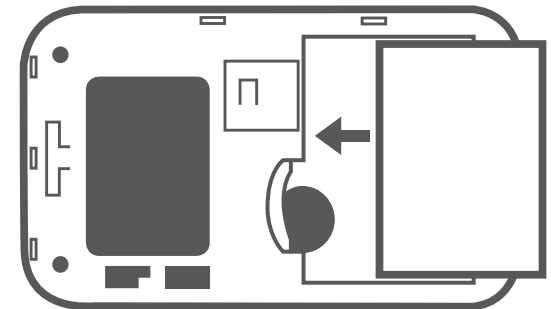
Open the SIM card and battery compartment, located on the bottom of the device. Insert the SIM card by lining up the contact points on the SIM card with the contact points in the SIM card compartment.



Installing the Battery

Insert the battery by lining up the contact points on the battery with the contact points in the battery compartment. The included battery lasts up to four hours.

Note: The battery is required to power the DIR-457 myPocket Router in either Wi-Fi router or USB modem mode.



Power Management

Charging with the Power Adapter

To charge the battery insert one end of the USB cable into the USB port of the power adapter and the other end into the Mini-USB port of the DIR-457 myPocket Router, then plug the power adapter into a wall socket. While charging, the Power/3G network LED will flash. When battery power is low, the LED will flash red.



Charging with the USB Cable

To charge the battery insert the USB cable into the Mini-USB port of the DIR-457 myPocket Router and the other end into a free USB port of your computer. While charging, the Power/3G network LED will flash. When battery power is low, the LED will flash red.

Note: Both USB modem mode and Wi-Fi router mode support above two charging methods.

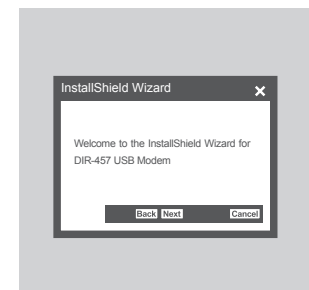
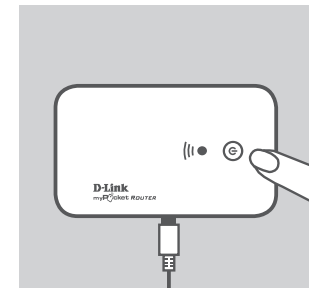
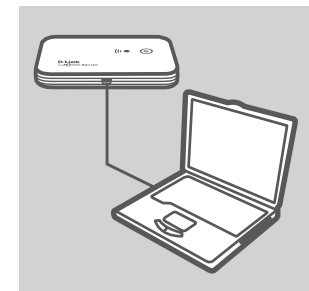
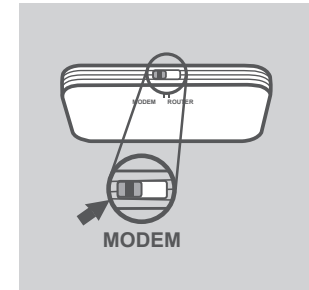


Connection Setup

USB Modem Mode Connection

1. Move the router/modem selection switch to USB modem mode.
2. Connect the DIR-457 myPocket Router to your computer with the included USB cable. To do this, insert the USB cable into the Mini-USB port of the DIR-457 myPocket Router and the other end into a free USB port of your computer.
3. Press the power button on the DIR-457.
4. The Connection Manager software will automatically start up.
5. Configure your router/modem settings using the Connection Manager.
6. You can now use the DIR-457 myPocket Router as a USB modem.

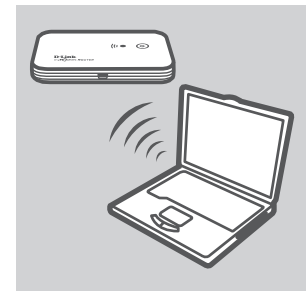
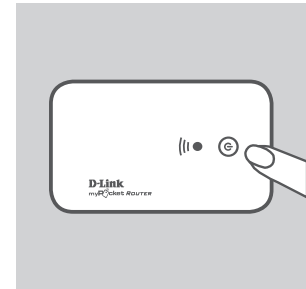
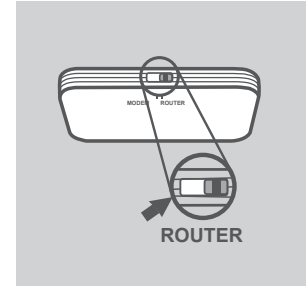
Note: You have to install the Connection Manager software when using the DIR-457 for the first time. After successful installation, you can configure USB modem and Wi-Fi router basic settings. When the DIR-457 is used in USB modem mode, you can manage your 3G connection using the D-Link Mobile Connection Manager (please refer to session 2 - Managing 3G connection).



Connection Setup

Wi-Fi Router Mode

1. Move the router/modem selection switch to Wi-Fi router mode.
2. Press the power button on the DIR-457.
3. You can now use the DIR-457 myPocket Router as a wireless access point and connect to the router with any Wi-Fi capable devices.



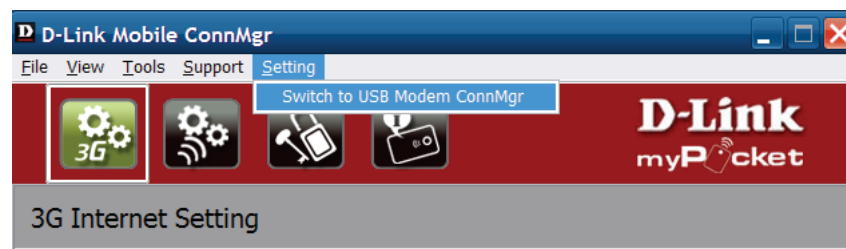
Device Setup using D-Link Connection Manager (Windows) Manager or Web-based Tool

The DIR-457 provides two different ways of device setup. For changing settings, you can choose either the D-Link Mobile Connection Manager or the Web-based Configuration Utility (please refer to Section 5 - WEB Configuration). The D-Link Mobile Connection Manager offers an easier and simpler way, and allows for both 3G and Wi-Fi settings to be adjusted. The following instructions will show you how to configure the 3G connection.

Note: These settings will only take effect when you use the DIR-457 as a 3G USB modem.

Managing the 3G Connection

To configure the 3G connection of your DIR-457 go to **Settings**
> **Switch to USB Modem ConnMgr**.



New Profile

Before starting, if the mobile service provider associated with your SIM card is listed in the preset profile list, you can directly connect to the desired network using its pre-defined profile.

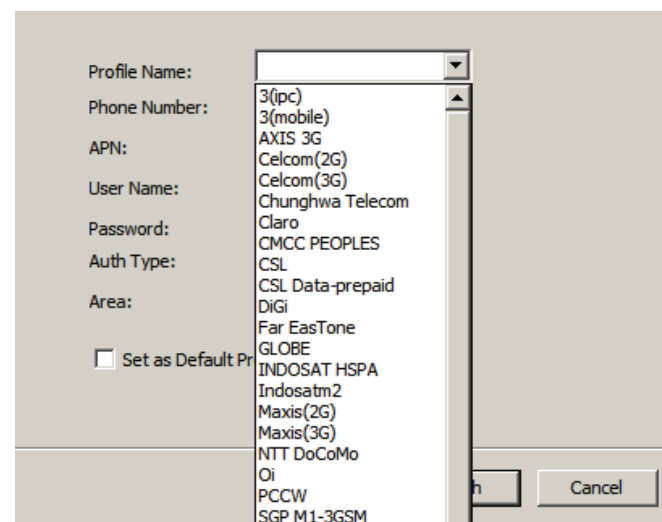
You also can create your own profile by following the steps below:

1. Click the **Profile** button.
2. Click the **New** button to activate the wizard which will help you create a new profile.
3. Select the profile type, **Preconfigured Profile** or **User Defined Profile**. Click **Next** to continue.



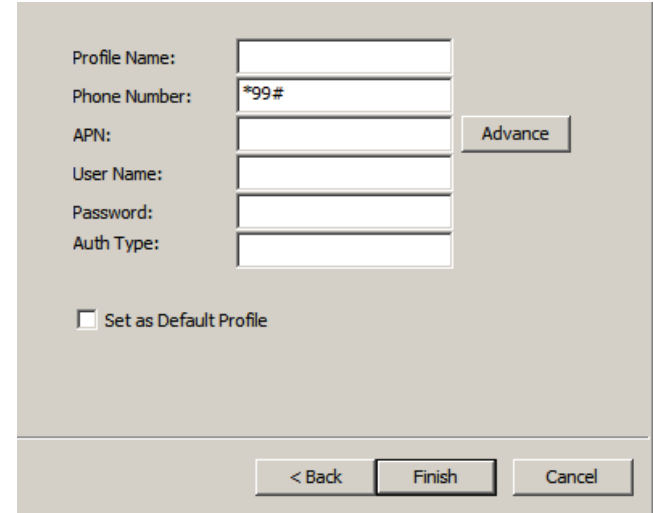
Use Default Profile (Preset)

1. Select a Profile Name from the drop-down menu. Most of the required information will be populated into the fields automatically.
2. If needed, fill in the Phone Number, APN (Access Point Network), User Name, and Password.
3. If desired, click the check box to set this as the default profile.
4. Click **Next** to continue.



User-Defined Profile

1. Fill in the Profile Name, Phone Number, APN, User Name, Password, and Authorization Type.
2. Click **Finish** to complete.
3. Click the **Advanced** button to display APN details.
4. Highlight an APN and click OK.
5. Click **Next** to continue.



The screenshot shows a dialog box titled "User-Defined Profile". It contains several input fields: "Profile Name:", "Phone Number:" (with "*99#" entered), "APN:", "User Name:", "Password:", and "Auth Type:". To the right of these fields is an "Advance" button. Below the input fields is a checkbox labeled "Set as Default Profile". At the bottom of the dialog are three buttons: "< Back", "Finish", and "Cancel".

Establishing a Connection

The Connect/Disconnect button will be black when you are offline. You can click the Connect button to connect to the network via the default profile. After you are connected, the button will turn green with a checkmark. Once connected, you can use the mobile service network to browse the Internet, send e-mail, send text messages, and perform other tasks online.



Connect

Ending a Connection

If you wish to disconnect, click the button again, and the button will turn black to indicate you have successfully disconnected and are offline.



Disconnect

Profile Management

Under the Profiles icon, users can create, edit and delete profiles as well as preset profiles.

Editing

1. Click the **Profile** button.
2. Select a profile and click the **Edit** button.
3. Click the appropriate tab and enter the information in the fields.
4. Click the **Advanced** button to display a list of operators and their areas in the window below.
5. Click **OK** to close the APN window.
6. Click **OK** to close the Edit Profile window.



Profile

Note: Profiles may only be edited when you are disconnected.

Deleting a Profile

Click the **Profile** button.

Select a user-defined profile and click the **Delete** button.

Click **Yes** to confirm the deletion.

Deleting All Profiles

Click the **Profile** button.

Click the **Delete All** button.

Setting the Default Profile

Click the **Profile** button.

Highlight the profile to use when the DIR-457 is started.

Click **Set as Default** profile.

Reset to Factory Default

Click the **Profile** button.

Click **Set as Factory Default** to return the DIR-457 to the factory settings.

Connection Management

The Connection Information window allows users to manage not only the current connection (if connected), but also their connection history. Click the Connection Info button to open the Connection Information window.

Current Connection

The Current Connection tab displays the following information:

Profile Name - Displays the current profile. Select other profiles from the drop down menu.

Connection Type - Displays the mobile service technology that the service network uses.

Connection Band - Displays the band of the current connection.

Connected Time - Displays how long the current session has been active for.

Volume - Displays the total amount of data received (Rx) and transmitted (Tx).

Speed - Displays the speeds for both transmitted and received data.

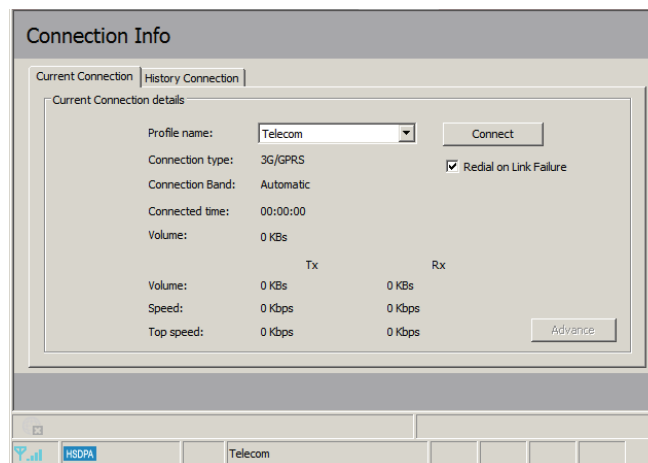
Top Speed - Displays the maximum transmitted and received speeds attained.

Redial on Link Failure - Redial if the connection is somehow disconnected.



Connection
Information

Note: Windows Vista requires your confirmation to redial on link failure.



Connection History

The History Connection tab displays the following information:

Type - The type of connections made.

Profile - The names of the profiles used.

Date & Time - The date and time of the connection.

Duration - The duration of the connection in hours, minutes, and seconds.

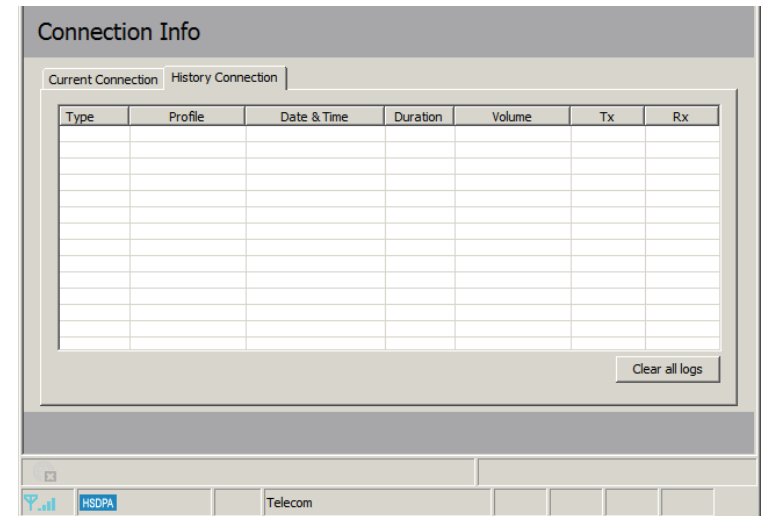
Volume - The total amount of data transmitted and received.

Tx - The total number of bytes transmitted.

Rx - The total number of bytes received.

Follow the steps below to clear the Connection History:

1. Click **Clear All Logs** to clear the logs.
2. Click **Yes** to confirm.

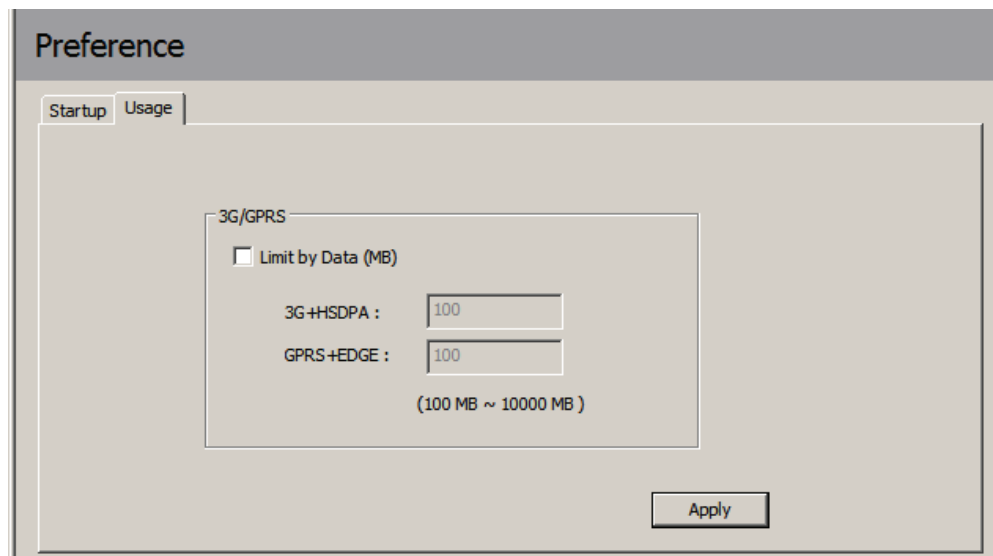
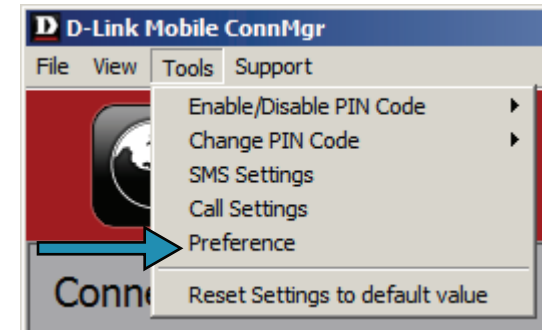


Usage Management

Limits can be set on how long a connection will last. These limits can either be set by usage (3G/GPRS connections) or by time (Dialup connections).

Usage

1. Select **Tools > Preference**.
2. Select the **Usage** tab.
3. Check the **Limit by Data** checkbox.
4. Enter the desired value between 100MB and 10,000MB.
5. Click **Apply** to save the settings.



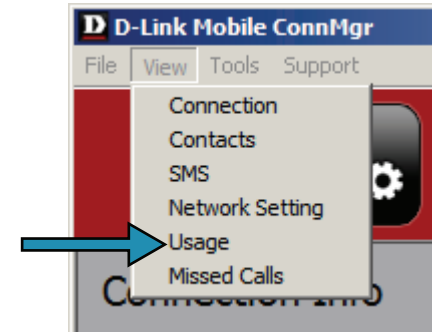
Usage Statistics

Statistics for both usage and time can be viewed from the usage menu.

1. Select **View > Usage**.
2. Select either the **Current Month** or **Previous Month** tab.

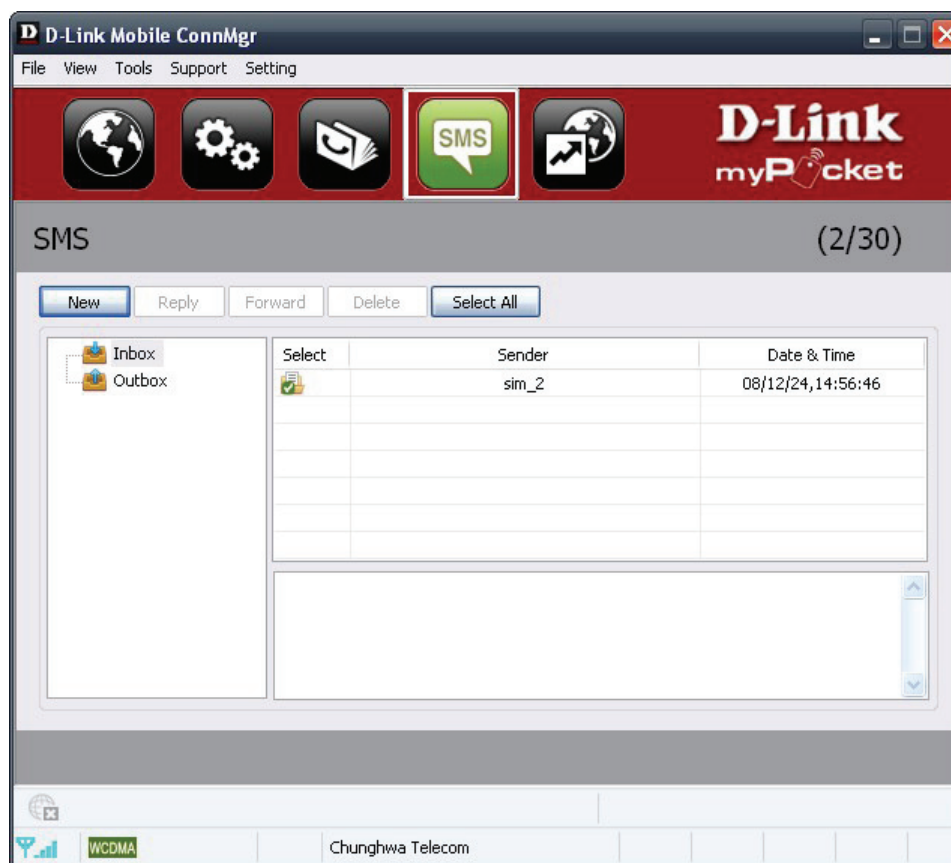
Follow the steps below to clear the Previous month's logs:

1. Select **View > Usage**.
2. Select **Previous Month** tab.
3. Click **Clear all logs**.
4. Click **Yes** to confirm.

A screenshot of the 'Usage' window in the D-Link Mobile ConnMgr application. The window has two tabs: 'Current Month' (selected) and 'Previous Month'. Under 'Current session', it shows 'Volume : 0.00 MB' and 'Time: 0 h : 00 m'. Below that is a 'Data Transferred Limits' section with a 'Time Duration' dropdown set to '2009 - 03'. At the bottom, there is a '3G vs GPRS' section with two rows: '3G+HSDPA: 0.03 MB / 200.00 MB' and 'GPRS+EDGE: 0.00 MB / 100.00 MB', each with a corresponding progress bar.

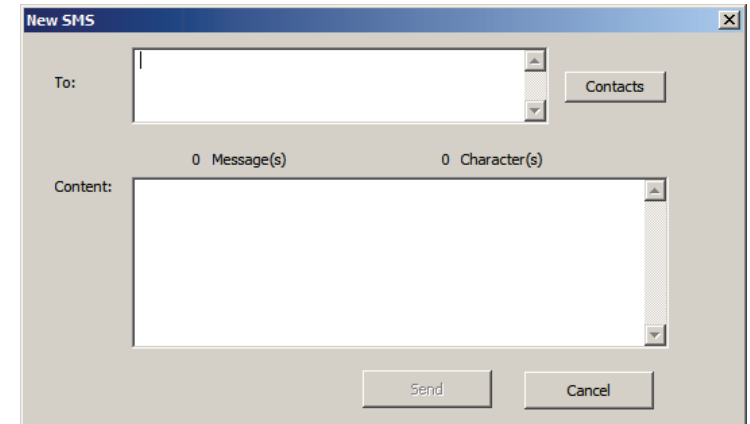
Text Messaging (SMS)

The DIR-457 can be used to perform all the text messaging functions that can be done on a mobile phone such as sending, receiving, replying, forwarding and deleting.



New/Reply/Forward Text Message

1. Click the **SMS** button.
2. Click **New**, **Reply**, or **Forward**.
3. Enter the recipient's phone number or click **Contacts** to see the contacts stored to the SIM card. In the contacts window, click the box next to the recipients name and click **Add** to return to the New SMS window.
4. Enter a message to send.
5. Click **Send** to send the message.



Deleting a Message

1. Click the **SMS** button.
2. Select the messages you want to delete. If you would like to delete all messages, click **Select All**.
3. Click **Delete** to delete the selected messages.
4. Click **Yes** to confirm.

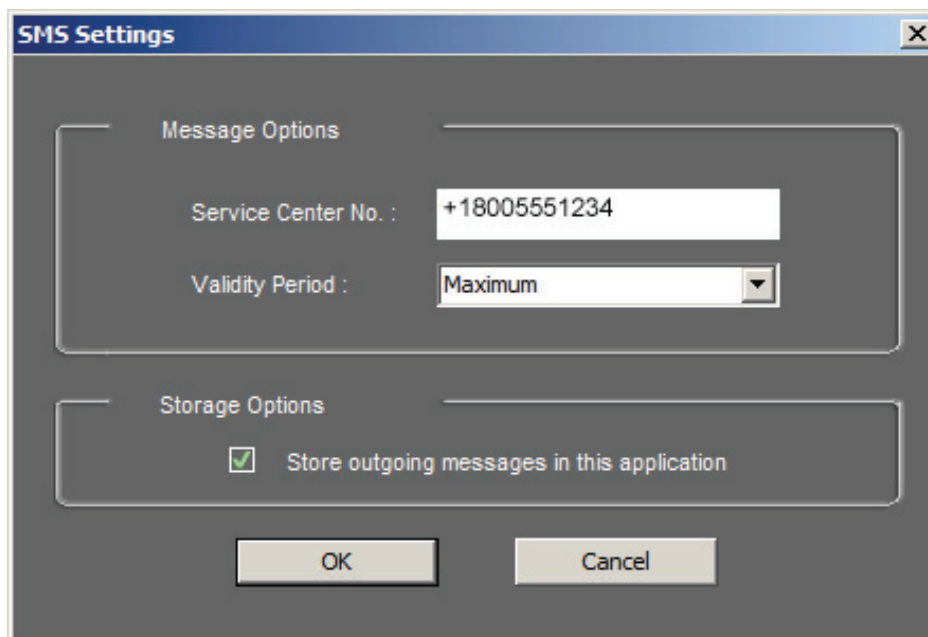
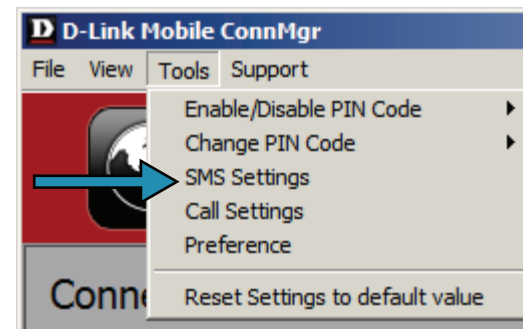
Saving a Sender to Contacts

1. Click the **SMS** button.
2. Select a message.
3. Right click on the selected message and click **Save to Contacts**.
4. In the **Add Contact** window enter the contact name.
5. Click **OK** to save the contact.
6. Once the contact has been saved, a confirmation window will be displayed.
Click **OK** to close it.

SMS Settings

This menu allows you to change the service center number, its validity period, and whether to store outgoing messages within the DIR-457 Mobile Connection Manager.

1. Click **Tools > SMS Settings**.
2. If needed, enter the new Service Center number. Choose the Validity Period from the drop-down list.
3. Check the box to store outgoing messages in the application.
4. Click **OK** to save the details.

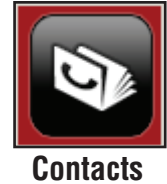


Contact Management

The DIR-457 contacts manager displays all the contacts on the SIM Card. Contacts can be added, edited, deleted and imported.

Adding Contacts

1. Click the **Contacts** button.
2. Click the **Add** button.
3. In the Add Contact window, enter the contact name and telephone number.
4. Click **OK** to add the contact.



Editing Contacts

1. Click the **Contacts** button.
2. Select the contact to edit.
3. Click the **Edit** button.
4. Modify the contacts details.
5. Click **OK** to save the changes.

Deleting Contacts

1. Click the **Contacts** button.
2. Select the contact to delete. If you would like to delete all contacts, click Select All.
3. Click the **Delete** button.
4. Click **Yes** to confirm the deletion.

Importing vCards to Contacts

1. Click the **Contacts** button.
2. Click the **Import** button.
3. Select the source of the vCard(s).
4. Click **Open** to import the card(s).
5. After the import, a message will display the import information. Click OK to close.

Exporting Contacts to vCards

1. Click the **Contacts** button.
2. Click the **Export** button.
3. Select the destination to save the vCard(s).
4. Click **OK** to export the card(s).
5. After the export, a message will be displayed. Click OK to close.

SIM Management

SIM Management includes functions such as enabling/disabling a PIN, changing the PIN1/PIN2 codes, checking SIM information, adjusting the phone number, viewing contacts usage, and viewing SMS usage.

SIM Information

SIM details regarding the IMEI, Phone Number, Contact Usage, and SMS Usage can be found by clicking **Support > About D-Link Mobile Connection Manager**.



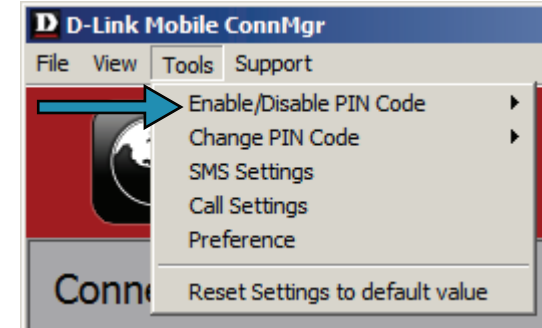
Enabling or Disabling a PIN Code

Enable PIN Code

To prevent unauthorized use of the SIM card a PIN code can be enabled.

1. Select **Tools > Enable/Disable PIN code > Enabled**.
2. Enter the correct PIN code to enable.
3. Click **OK** to enable PIN code protection.

If a PIN number has been enabled, you will always be asked to enter it before accessing the D-Link Mobile Connection Manager software.



Disable

If a PIN code is no longer required, you may disable it via the following steps.

1. Click **Tools > Enable/Disable PIN code > Disabled**.
2. Enter the correct PIN code.
3. Click **OK** to disable the PIN.

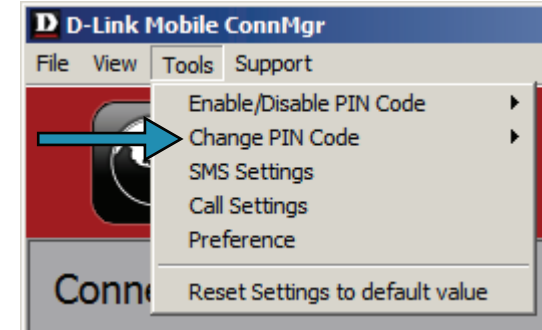
Note: The PIN is provided by your network service provider.

Warning: The PIN code must be entered correctly within three tries. Failure to do so will cause the SIM card to become locked.

Changing a PIN Code

SIM cards often contain two PIN codes that can be changed.

1. Click **Tools > Change PIN Code > PIN1 or PIN2**.
2. Enter the details in the following fields: Current PIN Code, Enter New PIN Code and Confirm New PIN Code.
3. Click **OK** to change.
4. Once complete, a confirmation window will be displayed. Click OK to close the window.



Warning: The PIN code must be entered correctly within three tries. Failure to do so will cause the SIM card to become locked.

Note: The PIN codes cannot be changed while the DIR-457 is connected to a mobile network.

Unlocking a PIN Code

If the PIN code has been entered incorrectly three times and the SIM card has been locked, follow the steps below to unlock it:

1. If a PIN is blocked, the unblock window will be displayed.
2. Enter the **PUK** code. Enter the new PIN Code, and confirm the new code.
3. Click **OK** to confirm the new PIN code.

Note: The PUK number is provided by your mobile service provider.

Profile Settings

The Profile Settings page allows you to manually change your Band and Network setting in case your DIR-457 can not automatically connect to your network provider.

Band Settings

The DIR-457 supports two band selection options:

Automatic - The DIR-457 automatically selects the band based on the networks available in current area.

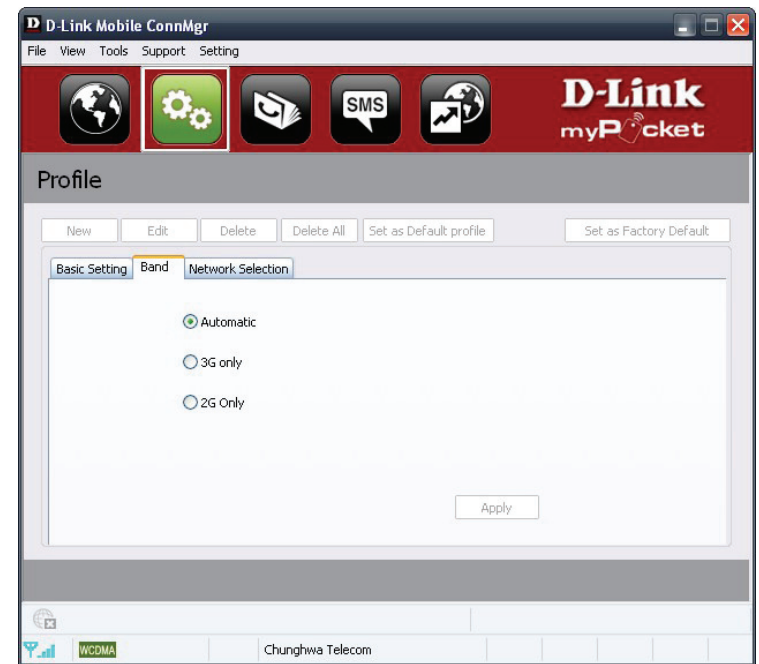
3G Only - Restricts the DIR-457 to using 3G service on WCDMA 850/1900/2100 bands.

2G Only - Restricts the DIR-457 to using 2G service on GPRS 850/900/1800/1900 bands.

Note: If you accidentally configure the wrong settings, go to **Tools > Reset Settings to Default Value**.

To adjust the band settings follow the instructions below:

1. Click the **Profile** button.
2. Select **Band** tab.
3. Select Automatic, 3G only, or 2G only.
4. Click **Apply** and **OK**.



Network Selection

The current location of the DIR-457 may be covered by more than one network. The DIR-457 supports two network selection options:

Automatic - By default the DIR-457 will automatically select the network based on the user's account and network availability.

Manual - Users can also use DIR-457 to get the network list, and select an available network to use.

To manually set the network, follow the steps below:

1. Click the **Profile** button.
2. Select the **Network Selection** tab.
3. Select **Manual**.
4. Click **Search** to see all available networks.
5. Select a network operator and click **Apply**.
6. Click **OK** to finish.

Note: When the band is set to **3G Only**, manual selection will only list 3G networks.

Profile

New Edit Delete Delete All Set as Default profile Set as Factory Default

Basic Setting Band Network Selection

☐ Automatic ☒ Manual Apply

Manual

Notice
If user set unavailable setting will cause not be able to camp-on network. Search

Operator	Type	Status
----------	------	--------

Profile

New Edit Delete Delete All Set as Default profile Set as Factory Default

Basic Setting Band Network Selection

☐ Automatic ☒ Manual Apply

Manual

Notice
If user set unavailable setting will cause not be able to camp-on network. Search

Operator	Type	Status
Telecom	2G/3G	Current
Mobile	2G/3G	Not Allowed
Telecom	2G	Not Allowed
Mobile	2G/3G	Not Allowed
Telecom	3G	Not Allowed

Call Settings

Select **Tools > Call Setting**.

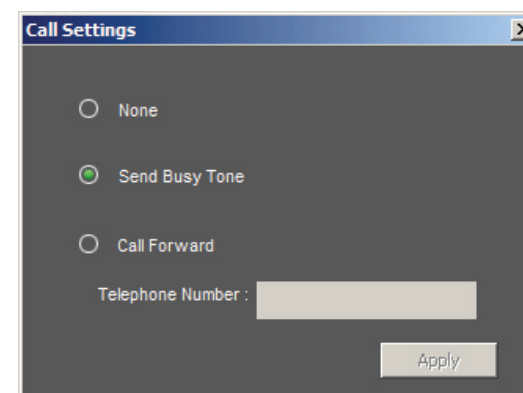
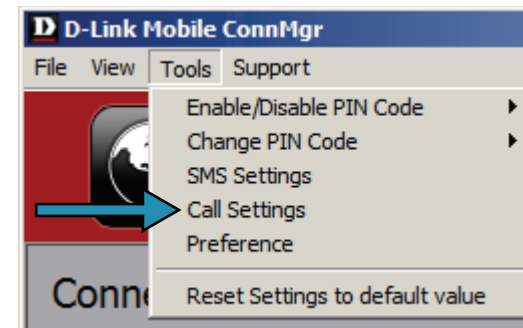
You may select from one of the following options:

None - No answer.

Send Busy Tone - The caller will hear a busy tone, or will be transferred to voice mail.

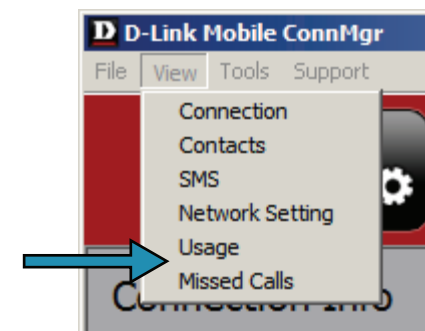
Call Forward - The incoming call will be forwarded to the phone number you enter into the **Telephone Number** text box.

Note: The call settings query may fail if the network is busy; in this case please try again later.



Missed Calls

1. Select **View > Missed Calls**.
2. If the call setting is None or Send Busy Tone, D-Link Mobile Connection Manager AP will register the incoming call in the missed calls list.

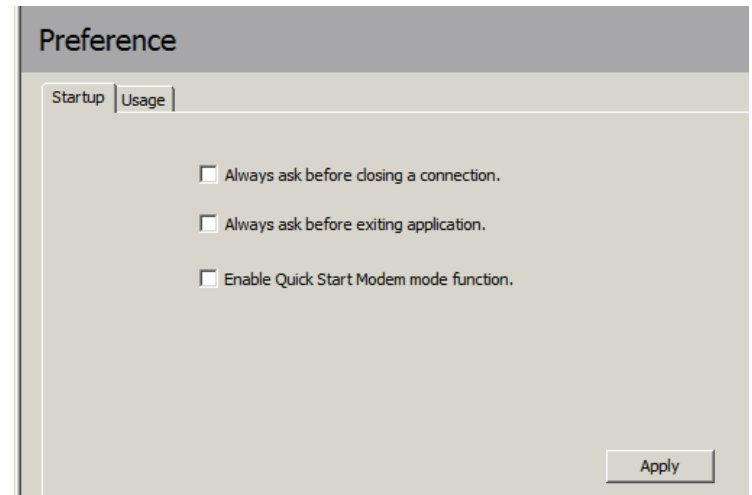


Startup Options

Users can specify how the application should start up.

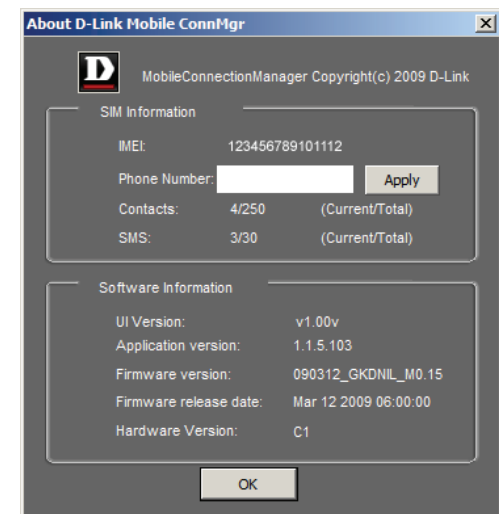
1. Click **Tools > Preferences > Startup**.
2. Check the box next to the desired options.
 - Always ask before closing a connection.
 - Always ask before exiting application.
 - Enable Quick Start. (This mode runs a program in the background to help the D-Link Mobile Connection Manager launch quickly.)
3. Click **Apply** to save the settings and finish.

Note: Please reset these settings when you want to install on another PC or remove the driver.



Version Information

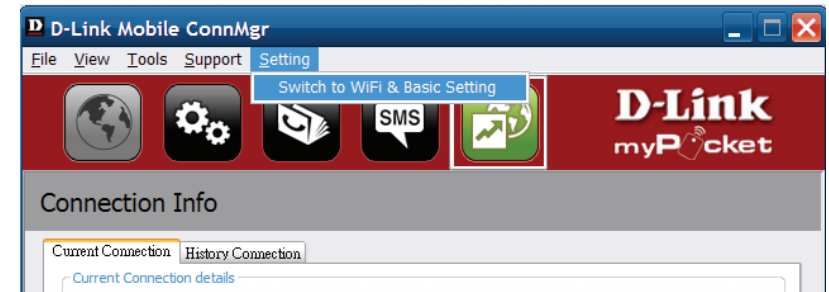
The application version, firmware version and firmware release date can be found by selecting **Support > About D-Link Mobile Connection Manager**.



Wi-Fi and Basic Settings

The following steps will show you how to adjust the settings for both Wi-Fi and 3G connections. When you use this device as a 3G router, the Wi-Fi and 3G functionalities will both be enabled. You can adjust both of them under “Wi-Fi and Basic Settings”.

Note: These settings will only take effect when you use the DIR-457 as a 3G router.



To configure the Wi-Fi and basic settings of your DIR-457 go to **Settings > Switch to Wi-Fi & Basic Settings**.

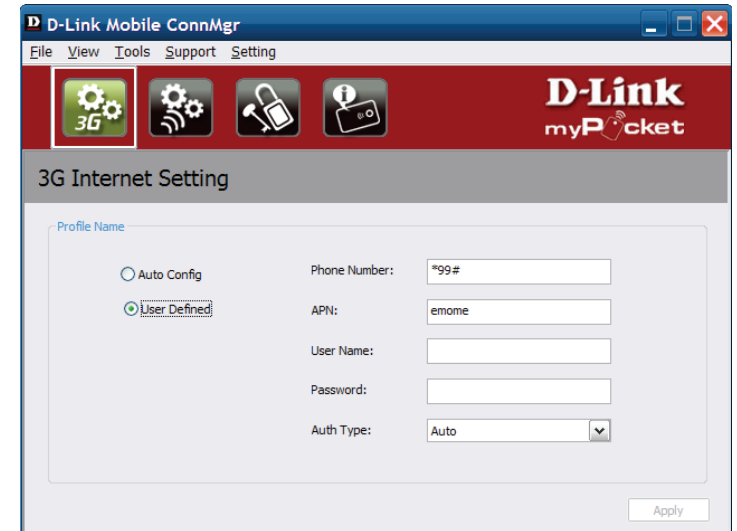
To change the 3G Internet settings, click the corresponding symbol.



3G Settings

Changing the Profile Information

You can either set the Profile Information to Auto Configure or manually choose a Phone Number, APN, User Name, Password, and Authentication Type.



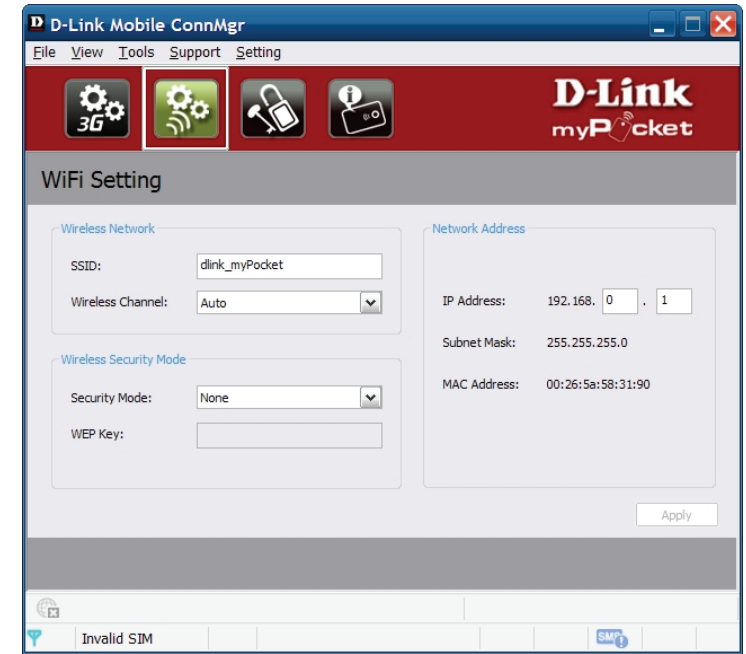
In the Wi-Fi settings screen you can set the SSID, Wireless Channel, and Security Mode for the DIR-457.



Wi-Fi Settings

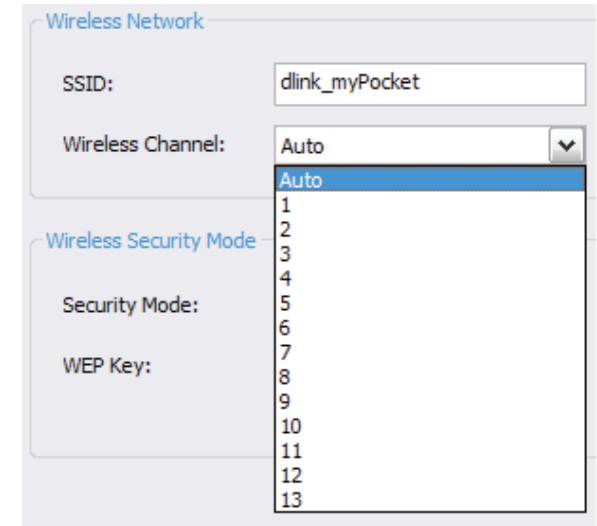
Changing the SSID

To manually choose an SSID, type a new name for the network in the SSID text field.



Configuring the Wireless Channel

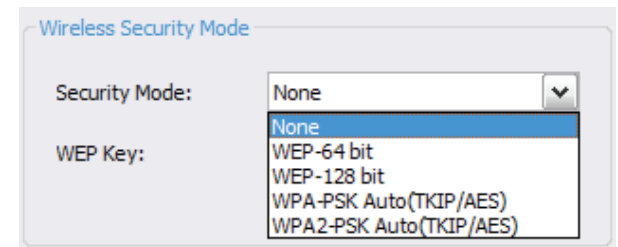
The Wireless Channel can be manually chosen (1 to 13) or set to Auto.



The screenshot shows the 'Wireless Network' configuration window. The 'SSID' field is set to 'dlink_myPocket'. The 'Wireless Channel' dropdown menu is open, showing a list of channels from 1 to 13, with 'Auto' selected at the top. The 'Wireless Security Mode' section is visible below, with 'Security Mode' and 'WEP Key' fields.

Configuring the Security Mode

The Security Mode can be set to WEP-64bit, WEP-128bit, WPA-PSK, and WPA2-SPK.



The screenshot shows the 'Wireless Security Mode' configuration window. The 'Security Mode' dropdown menu is open, showing a list of security modes: 'None', 'WEP-64 bit', 'WEP-128 bit', 'WPA-PSK Auto(TKIP/AES)', and 'WPA2-PSK Auto(TKIP/AES)'. The 'WEP Key' field is visible below the dropdown.

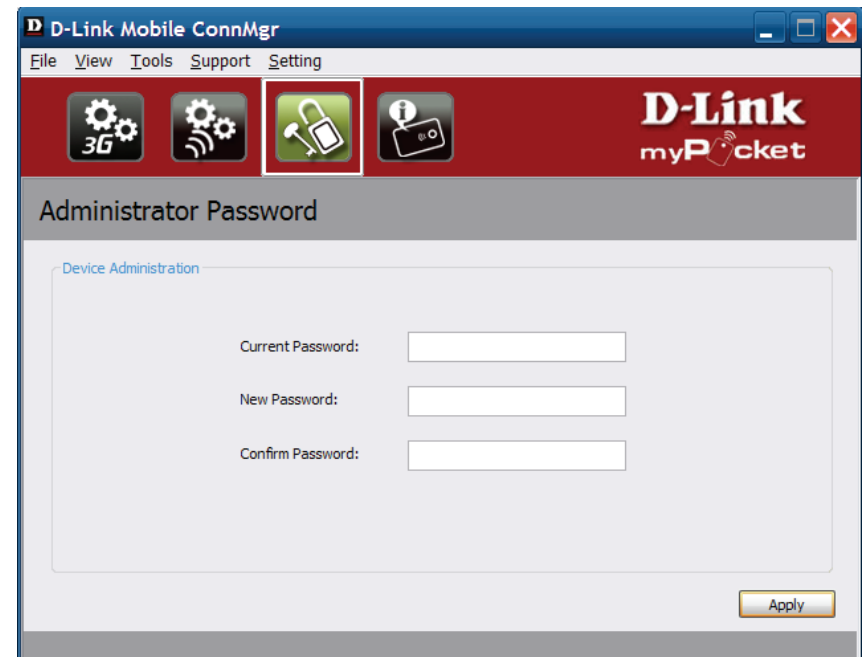
Setting the Administrator Password

To change the Administrator Password, click the corresponding symbol.



**Administrator
Password**

1. For security reasons, please repeat the current password.
2. Next, choose a new password.
3. Confirm the new password.



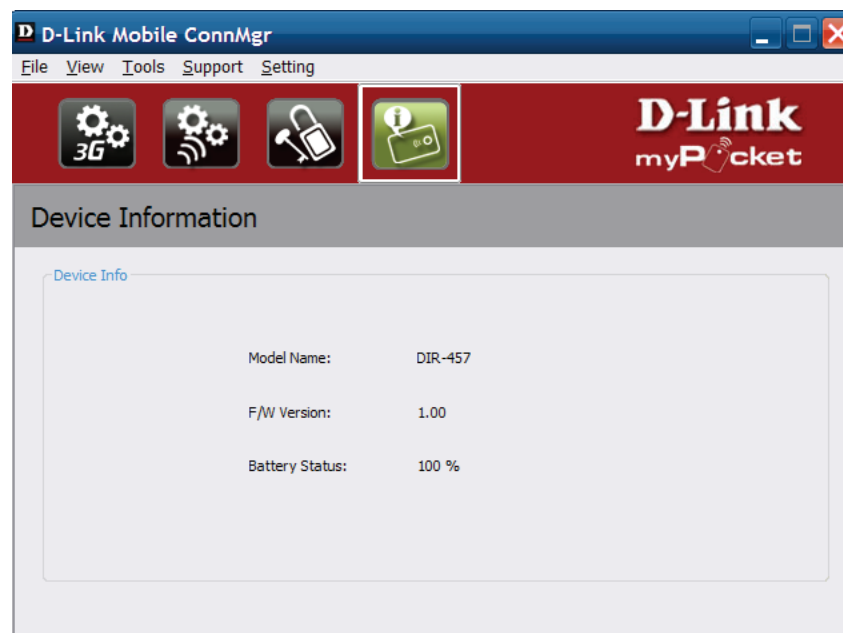
Device Information

To display information about your device, click the corresponding symbol.



**Device
Information**

This screen displays the Model Name, the Firmware Version, and the Battery status of your device.



Device Setup using D-Link Connection Manager (MAC OS)

New Profile

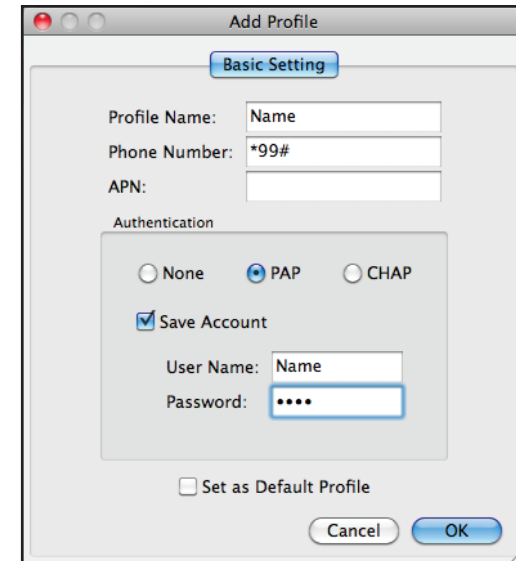
1. Click the **Profile** button.
2. Click the **New** button to open the New Profile window.



Profile

Create Profile

1. Enter the Profile Name, Phone Number, and APN (Access Point Network)
2. Select the Authentication Type.
3. Click **Save Account** if you would like to save the username and password between login sessions.
4. If desired, click the check box to set this as the default profile.
5. Click **Next** to continue.



Establishing a Connection

You can click the Connect button to connect to the network via the default profile. Once connected, the icon on the right side of the window will display a green checkmark instead of a red X. Once connected, you can use the mobile service network to browse the Internet, send e-mail, send text messages, and perform other tasks online.



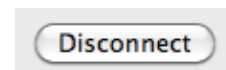
Connect

Note: The Connect/Disconnect button will be grayed-out when no SIM card is present.



Ending a Connection

If you wish to disconnect, click the **Disconnect** button.



Profile Management

Under the Profiles icon, users can create, edit and delete profiles as well as preset profiles.

Editing a Profile

1. Click the **Profile** button.
2. Select a profile and click the **Edit** button.
3. Click the appropriate tab and enter the information in the fields.
4. Click **OK** to close the Edit Profile window.



Profile

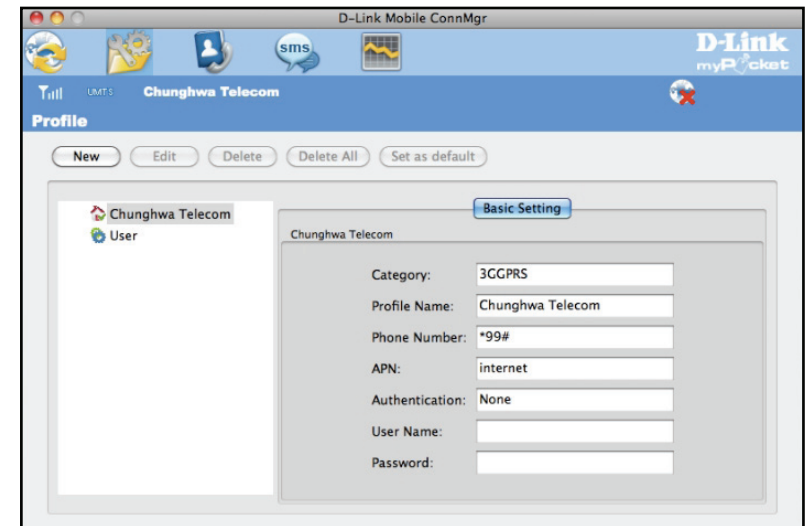
Note: Profiles may only be edited when you are disconnected.

Deleting a Profile

1. Click the **Profile** button.
2. Select a user-defined profile and click the **Delete** button.
3. Click **Yes** to confirm the deletion.

Setting the Default Profile

1. Click the **Profile** button.
2. Highlight the profile to use when the DIR457/DIR/457U is started.
3. Click **Set as Default** profile.



Connection Management

The Connection Information window allows users to manage not only the current connection (if connected), but also their connection history. Click the Connection Info button to open the Connection Information window.

Current Connection

The Current Connection tab displays the following information:

Profile Name - Displays the current profile.

Connection Type - Displays the mobile service technology that the service network uses.

Connected Time - Displays how long the current session has been active for.

Volume - Displays the total amount of data received (Rx) and transmitted (Tx).

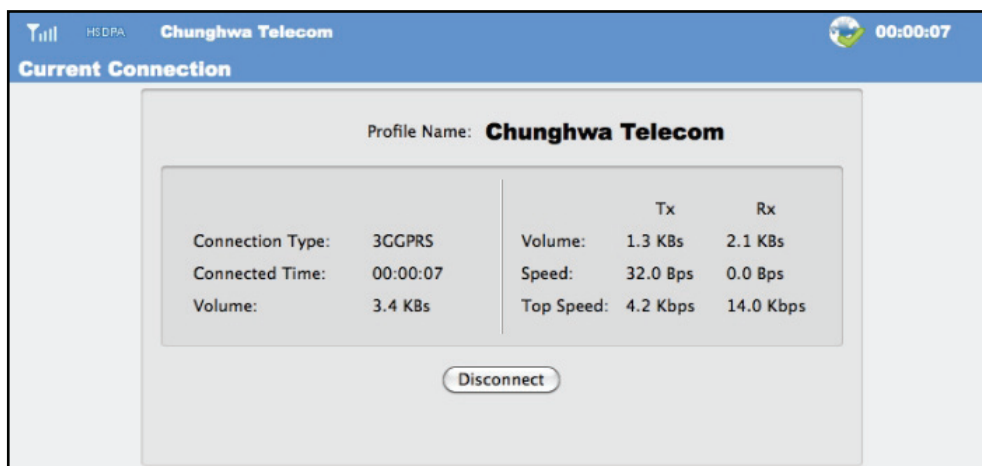
Speed - Displays the speeds for both transmitted and received data.

Top Speed - Displays the maximum transmitted and received speeds attained.

Disconnect - Click this button to disconnect.

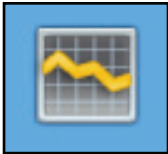


Connection Information



Connection History

The History Connection tab displays the following information:

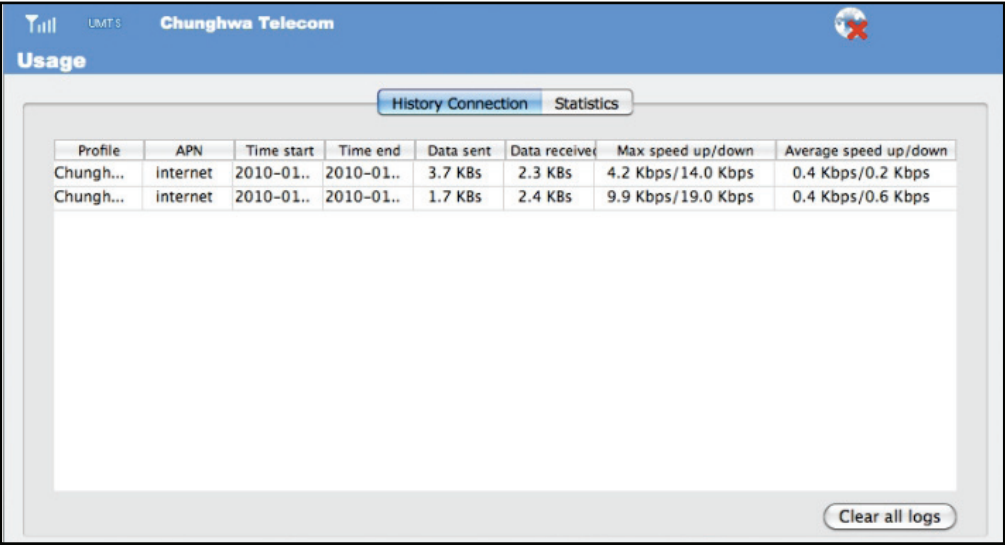


Usage

- Profile** - The name of the profile
- APN** - The access point name
- Time Start** - The time the connection was initiated
- Time End** - The time that the connected ended
- Data Sent** - The total amount of data sent
- Data Received** - The total amount of data received
- Max Speed Up/Down** - The highest recorded upload/download speed for the session
- Average Speed Up/Down** - The average upload/download speed for the session

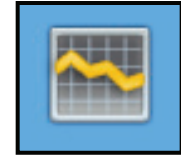
To clear the Connection History:

1. Click **Clear All Logs** to clear the logs.
2. Click **Yes** to confirm.



Usage Management

The Usage window allows users to manage not only the current connection (if connected), but also their connection history. Click the Connection Info button to open the Connection Information window.



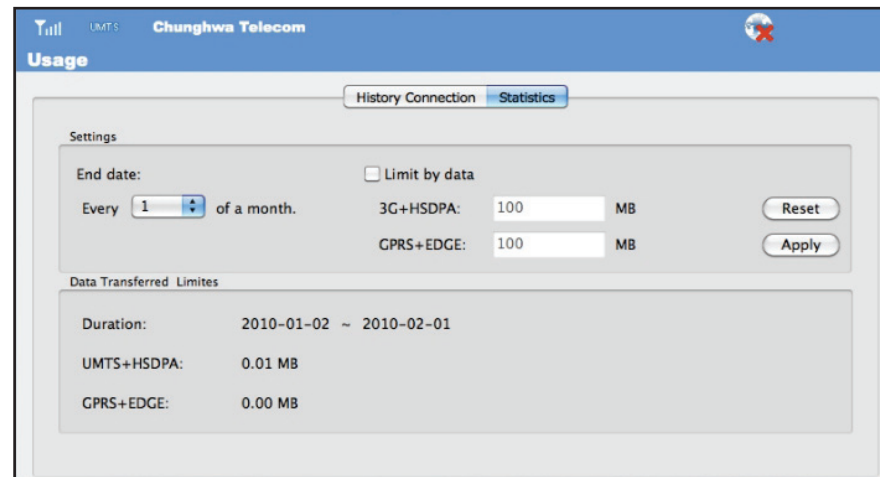
Usage

Statistics

The Statistics tab displays the following information:

Settings - You may choose to limit data collection by data or by a specified number of days in a month. Click **Reset** to restart the data collection. Click **Apply** to apply any changes to the settings.

Data Transferred and Limits: Displays the total amount of data transferred within the specified period.



The screenshot shows the 'Usage' window with the 'Statistics' tab selected. The window title bar includes 'T-Net UMTS' and 'Chunghwa Telecom'. The 'Settings' section has an 'End date' field set to 'Every 1 of a month.' and a 'Limit by data' checkbox. Below this are input fields for '3G+HSDPA' (100 MB) and 'GPRS+EDGE' (100 MB), with 'Reset' and 'Apply' buttons. The 'Data Transferred Limits' section shows a 'Duration' of '2010-01-02 ~ 2010-02-01' and a table of data transferred:

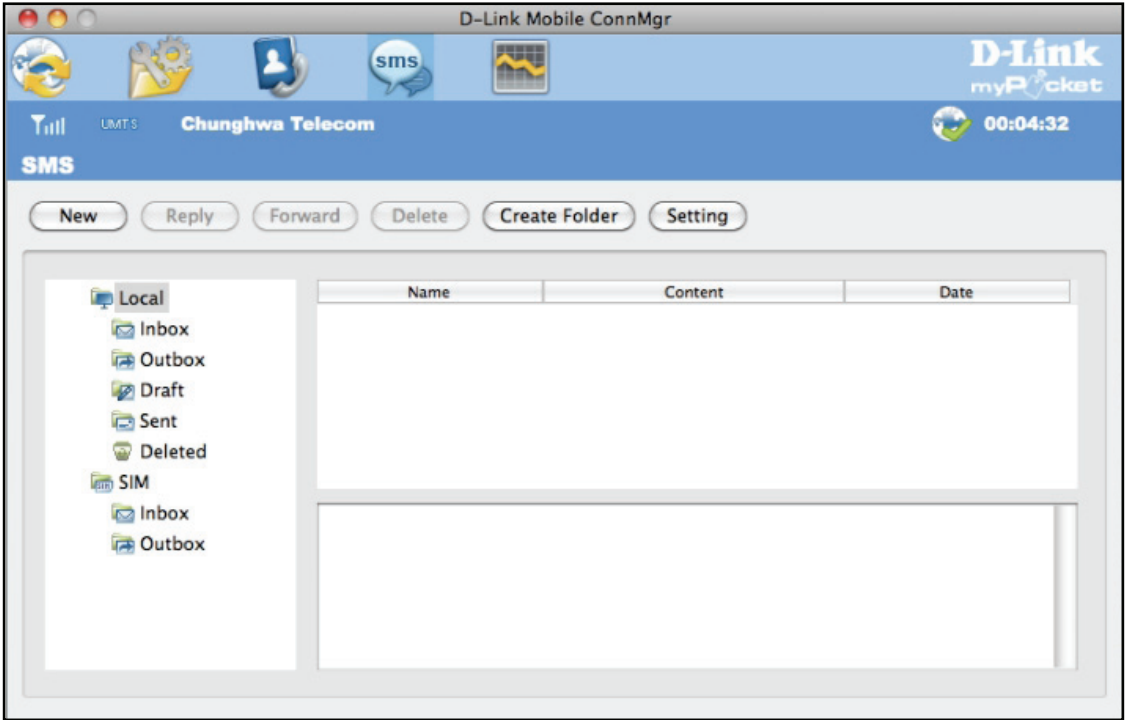
Data Transferred Limits	
Duration:	2010-01-02 ~ 2010-02-01
UMTS+HSDPA:	0.01 MB
GPRS+EDGE:	0.00 MB

Text Messaging (SMS)

The DIR-457 can be used to perform the text messaging functions that can be done on a mobile phone such as sending, receiving, replying, forwarding and deleting.

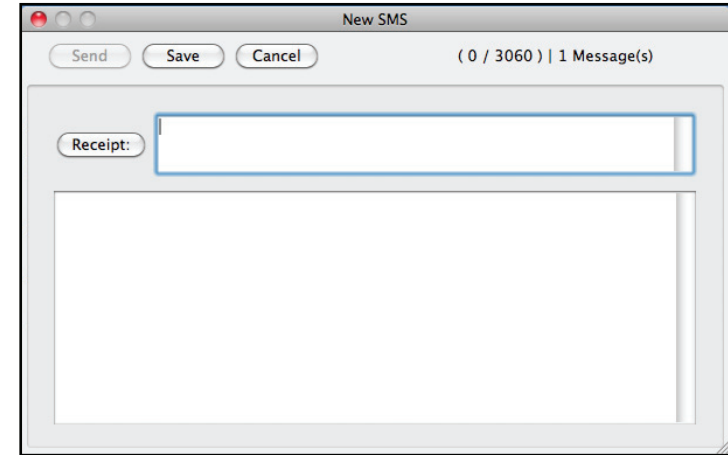


SMS



New/Reply/Forward Text Message

1. Click the **SMS** button.
2. Click **New**, **Reply**, or **Forward**.
3. Enter the recipient's phone number or click **Contacts** to see the contacts stored to the SIM card. In the contacts window, click the box next to the recipients name and click **Save** to return to the New SMS window.
4. Enter a message to send.
5. Click **Send** to send the message.



Deleting a Message

1. Click the **SMS** button.
2. Select the messages you want to delete.
3. Click **Delete** to delete the selected messages.
4. Click **Yes** to confirm.

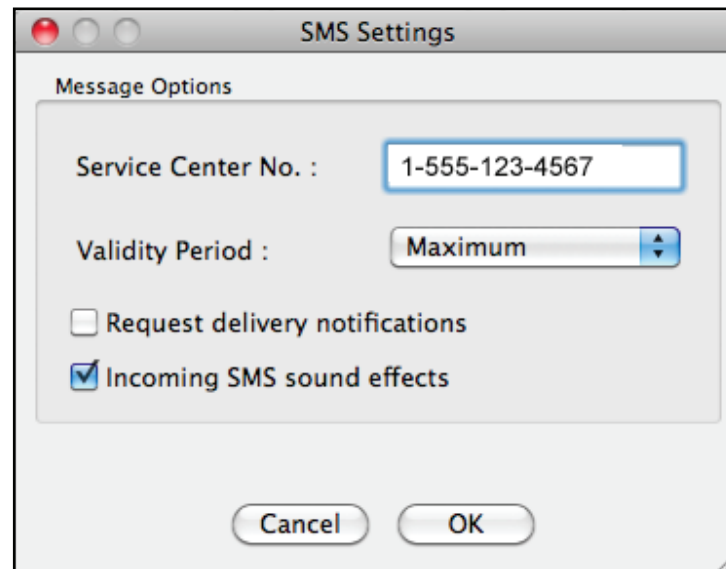
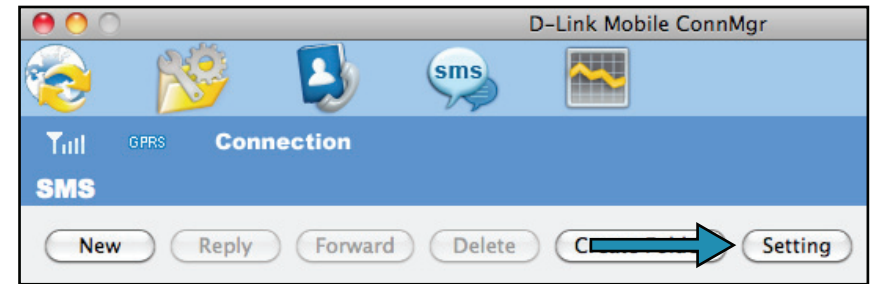
Saving a Sender to Contacts

1. Click the **SMS** button.
2. Select a message.
3. Shift click on the selected message and click **Save as Contact**.
4. In the **Add Contact** window enter the contact name.
5. Click **OK** to save the contact.
6. Once the contact has been saved, a confirmation window will be displayed. Click **OK** to close it.

SMS Settings

This menu allows you to change the service center number, its validity period, and whether to store outgoing messages within the DIR-457 Mobile Connection Manager.

1. Click **SMS > Settings**.
2. If needed, enter the new Service Center number. Choose a Validity Period from the drop-down list.
3. Check the box to request delivery notifications or play sound effects if desired.
4. Click **OK** to save the details.



Contact Management

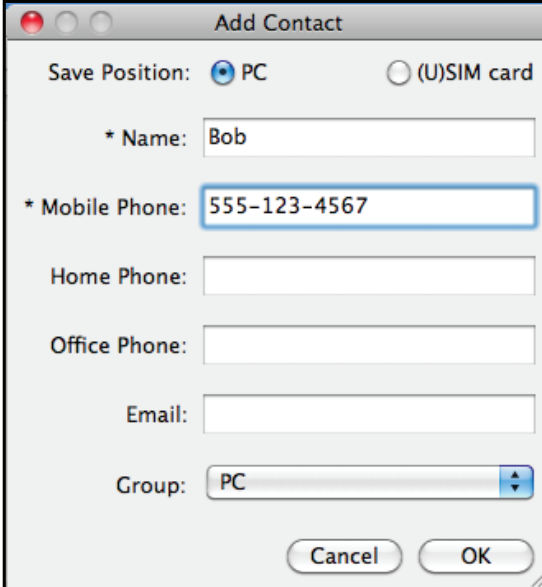
The DIR-457 contacts manager displays all the contacts on the SIM Card. Contacts can be added, edited, deleted and imported.



Contacts

Adding Contacts

1. Click the **Contacts** button.
2. Click the **Add** button.
3. Click **OK** to add the contact.



Editing Contacts

1. Click the **Contacts** button.
2. Select the contact to edit.
3. Click the **Edit** button.
4. Modify the contacts details.
5. Click **OK** to save the changes.

Deleting Contacts

1. Click the **Contacts** button.
2. Select the contact to delete.
3. Click the **Delete** button.
4. Click **Yes** to confirm the deletion.

SIM Management

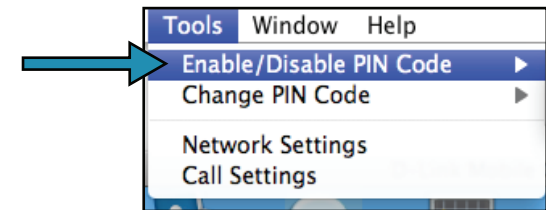
SIM Management includes functions such as enabling/disabling a PIN, changing the PIN1/PIN2 codes, adjusting the phone number, viewing contacts usage, and viewing SMS usage.

Enabling or Disabling a PIN Code

Enable PIN Code

To prevent unauthorized use of the SIM card a PIN code can be enabled.

1. Select **Tools > Enable/Disable PIN code > Enabled**.
2. Enter the correct PIN code to enable.
3. Click **OK** to enable PIN code protection.

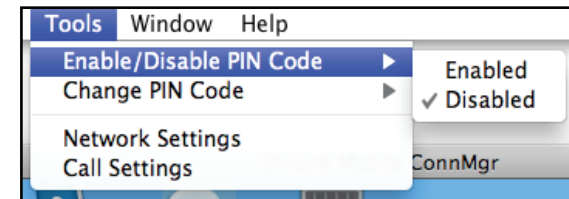


If a PIN number has been enabled, you will always be asked to enter it before accessing the D-Link Mobile Connection Manager software.

Disable

If a PIN code is no longer required, you may disable it via the following steps.

1. Click **Tools > Enable/Disable PIN code > Disabled**.
2. Enter the correct PIN code.
3. Click **OK** to disable the PIN.



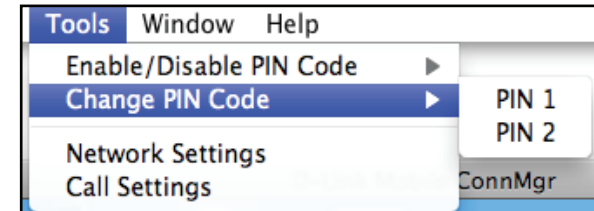
Note: The PIN is provided by your network service provider.

Warning: The PIN code must be entered correctly within three tries. Failure to do so will cause the SIM card to become locked.

Changing a PIN Code

SIM cards often contain two PIN codes that can be changed.

1. Click **Tools > Change PIN Code > PIN1** or **PIN2**.
2. Enter the details in the following fields: Current PIN Code, Enter New PIN Code and Confirm New PIN Code.
3. Click **OK** to change.
4. Once complete, a confirmation window will be displayed. Click **OK** to close the window.



Warning: The PIN code must be entered correctly within three tries. Failure to do so will cause the SIM card to become locked.

Note: The PIN codes cannot be changed while the DIR-457 is connected to a mobile network.

Unlocking a PIN Code

If the PIN code has been entered incorrectly three times and the SIM card has been locked, follow the steps below to unlock it:

1. If a PIN is blocked, the unblock window will be displayed.
2. Enter the PUK code. Enter the new PIN Code, and confirm the new code.
3. Click **OK** to confirm the new PIN code.

Note: The PUK number is provided by your mobile service provider.

Profile Settings

The Profile Settings page allows you to manually change your Band and Network setting in case your DIR-457 can not automatically connect to your network provider.

Band Settings

The DIR-457 supports two band selection options:

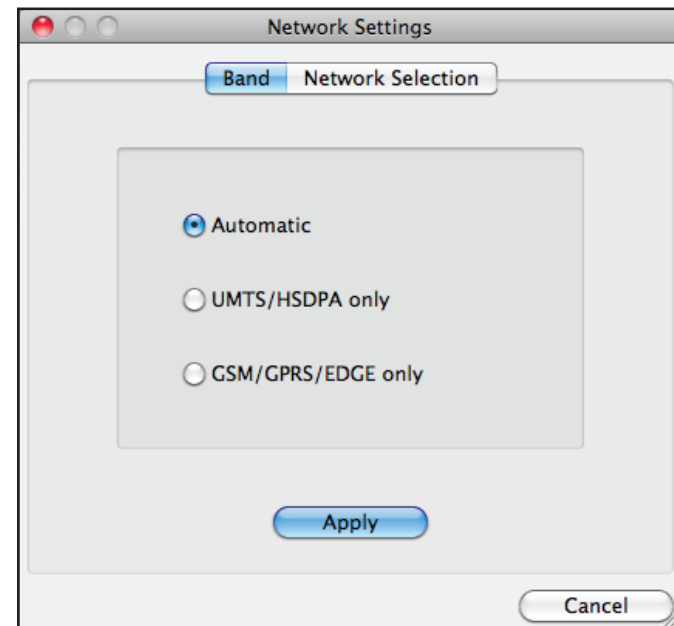
Automatic - The DIR-457 automatically selects the band based on the networks available in current area and those supported by the DIR-457.

UMTS/HSDPA Only - Restricts the DIR-457 to using 3G service on UMTS/HSDPA bands.

GSM/GPRS/EDGE Only - Restricts the DIR-457 to using 2G service on GSM/GPRS/EDGE bands.

To adjust the band settings follow the instructions below:

1. Click the **Profile** button.
2. Select **Band** tab.
3. Select Automatic, UMTS/HSDPA only, or GSM/GPRS/EDGE only.
4. Click **Apply** and **OK**.



Network Selection

The current location of the DIR-457 may be covered by more than one network. The DWM-156 supports two network selection options:

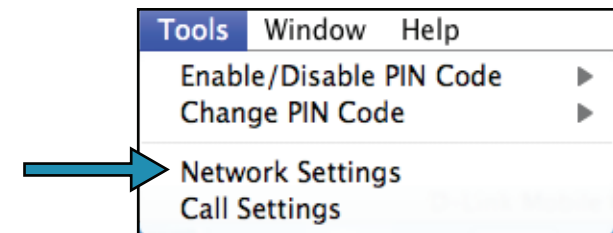
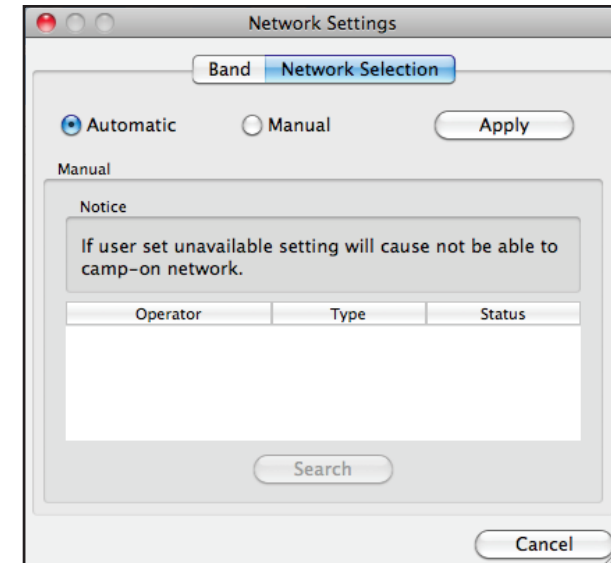
Automatic - By default the DIR-457 will automatically select the network based on the user account and network availability.

Manual - You may choose from the list of operators.

To manually set the network, follow the steps below:

1. Click on the **Tools** menu.
2. Click on **Network Settings**.
3. Select **Manual**.
4. Click **Search** to see all available networks.
5. Select a network operator and click **Apply**.
6. Click **OK** to finish.

Note: When the band is set to **3G Only**, manual selection will only list 3G networks.



Call Settings

Select **Tools > Call Setting**.

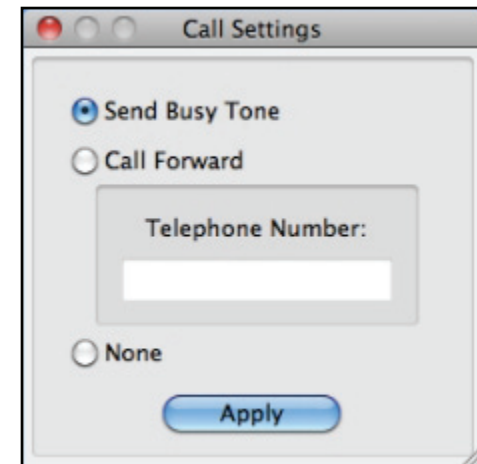
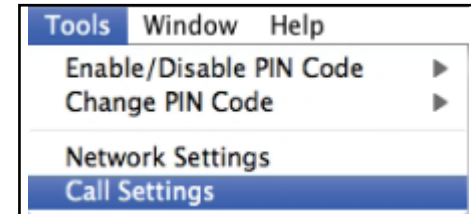
You may select from one of the following options:

None - No answer.

Send Busy Tone - The caller will hear a busy tone, or will be transferred to voice mail.

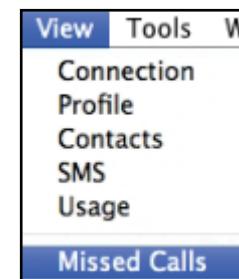
Call Forward - The incoming call will be forwarded to the phone number you enter into the **Telephone Number** text box.

Note: The call settings query may fail if the network is busy; in this case please try again later.



Missed Calls

1. Select **View > Missed Calls**.
2. If the call setting is None or Send Busy Tone, D-Link Mobile Connection Manager AP will register the incoming call in the missed calls list.



WEB Configuration

In order to configure basic and advanced settings for myPocket, first establish a connection through the 802.11g wireless interface, then launch a web browser and direct it to the IP address of the DIR-457. Once the connection is made, options for quick setup include using the Internet Connection Wizard to configure the 3G interface, or the Wireless Connection Wizard to configure the 802.11g Wireless interface. Alternatively, the Internet and Wireless network settings can be configured manually without using the connection wizards. The myPocket web interface is used for configuration of basic device settings, advanced network settings, device management and status monitoring. Follow the instructions below to connect to the web-based management interface.

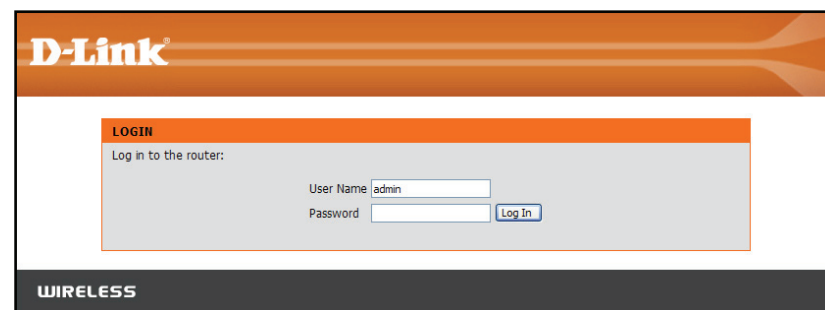
To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router (192.168.0.1).



Type **Admin** in the **User Name** field and then enter your password. Leave the password blank by default.

Click the **Login** button to log in to the router.

If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.



Internet Connection Setup Wizard

Once logged into the web interface of the router, the **Setup > Internet** page will appear. Click the **Internet Connection Setup Wizard** button to quickly configure your router using the setup wizard.

If you want to enter your settings without running the wizard, click **Manual Internet Connection Setup** and skip to “Manual Internet Configuration”.

The screenshot displays the D-Link DIR-457 web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar shows a menu with Internet Setup, Wireless Setup, LAN Setup, Time and Date, Logout, and a Reboot button. The main content area is titled 'INTERNET CONNECTION' and contains the following sections:

INTERNET CONNECTION

If you are configuring the device for the first time, we recommend that you click on the Internet Connection Setup Wizard button and follow the instructions on the screen. If you wish to modify or configure the device settings manually, click the Manual Internet Connection Setup button.

INTERNET CONNECTION SETUP WIZARD

If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.

[Internet Connection Setup Wizard](#)

Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

MANUAL INTERNET CONNECTION OPTIONS

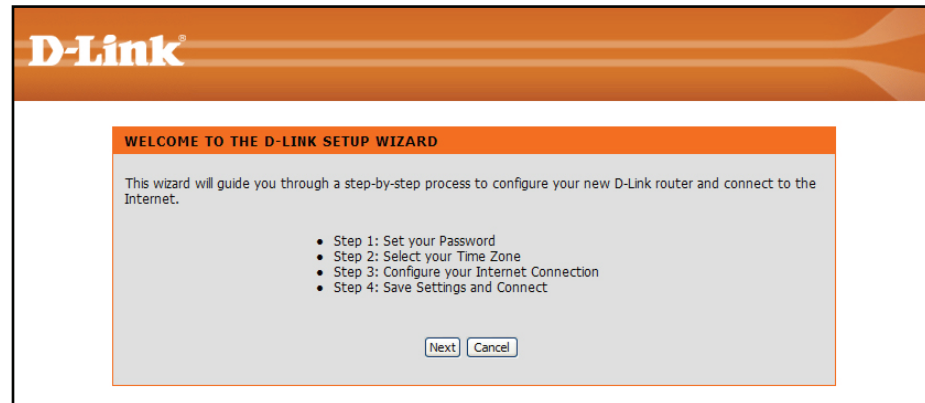
If you would like to configure the Internet settings of your new D-Link Router manually, then click on the button below.

[Manual Internet Connection Setup](#)

Helpful Hints..

- If you are new to networking and have never configured a router before, click on **Internet Connection Setup Wizard** and the router will guide you through a few simple steps to get your network up and running.
- If you consider yourself an advanced user and have configured a router before, click **Manual Internet Connection Setup** to input all the settings manually.

Click **Next** to continue.



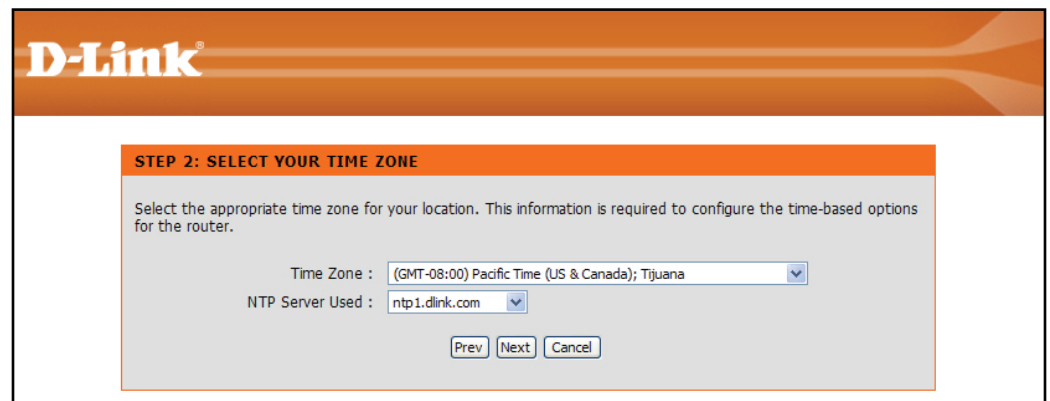
The image shows the 'WELCOME TO THE D-LINK SETUP WIZARD' screen. It features the D-Link logo at the top. Below the title, a message states: 'This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.' A bulleted list outlines the four steps: Step 1: Set your Password, Step 2: Select your Time Zone, Step 3: Configure your Internet Connection, and Step 4: Save Settings and Connect. At the bottom right, there are 'Next' and 'Cancel' buttons.

Create a new password and then click **Next** to continue.




The image shows 'STEP 1: SET YOUR PASSWORD'. It explains that by default, the router does not have a password for administrator access. It prompts the user to 'set and verify a password below:'. There are two input fields: 'Password :' and 'Confirm Password:', both masked with dots. Below the fields are 'Prev', 'Next', and 'Cancel' buttons.

Select your time zone from the drop-down menu and then click **Next** to continue.



The image shows 'STEP 2: SELECT YOUR TIME ZONE'. It instructs the user to 'Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.' There are two drop-down menus: 'Time Zone :' with the selected value '(GMT-08:00) Pacific Time (US & Canada); Tijuana' and 'NTP Server Used :' with the selected value 'ntp1.dlink.com'. Below the menus are 'Prev', 'Next', and 'Cancel' buttons.

Configure your 3G Internet Connection settings and then click **Next** to continue.



STEP 3: CONFIGURE YOUR INTERNET CONNECTION

To set up this connection, please make sure that you are connected with 3G USB Adapter.

Mode :

Country :

ISP :

User Name :

Password :

Dial Number :

Authentication Protocol :


APN :

Reconnect Mode : ☒ Always-on ☐ Connect-on demand ☐ Manual

Maximum Idle Time : (minutes, 0=infinite)

MTU : (bytes)(128-1492)

Click **Connect** to save your settings. Once the router has finished rebooting, click **Continue**. Please allow 1-2 minutes to connect.



SETUP COMPLETE!

The Setup Wizard has completed. Click the Connect button to save your settings and reboot the router.

Manual Configuration 3G Internet Connection

If you opt to set up your Internet connection manually, you will be redirected to a Internet Connection menu that allows you to configure your 3G configuration parameters.

Mode: Choose Auto mode for automatic configuration of the 3G connection. If you choose this mode, no other configuration is required; simply click on the Save Settings button to save the configuration and the device begins to negotiate the 3G connection. If you opt to use the Manual setup mode, configure the parameters remaining according to the requirements of your 3G account.

Country: This displays the country after the 3G setup is done.

ISP: This displays the Internet Service Provider (ISP) after 3G setup is done.

PIN: If you have a Personal Identification Number (PIN) for your 3G account, enter that number here.

User Name: Enter the user name for your 3G Internet connection.

Password: Enter the password for your 3G Internet connection.

Dial Number: Enter the dial number for your 3G service provider.

Authentication

Protocol: Choose the Authentication Protocol used.

APN: Enter the Access Point Name (APN) for your 3G service provider.

Reconnect Mode: Click a radio button to choose a reconnection mode. The options are **Always-on**, **Connect on demand**, or **Manual**.

Maximum Idle Time: Enter the maximum amount of time the Internet connection should be maintained during inactivity. To disable this feature, enable the **Always-on** reconnect mode.

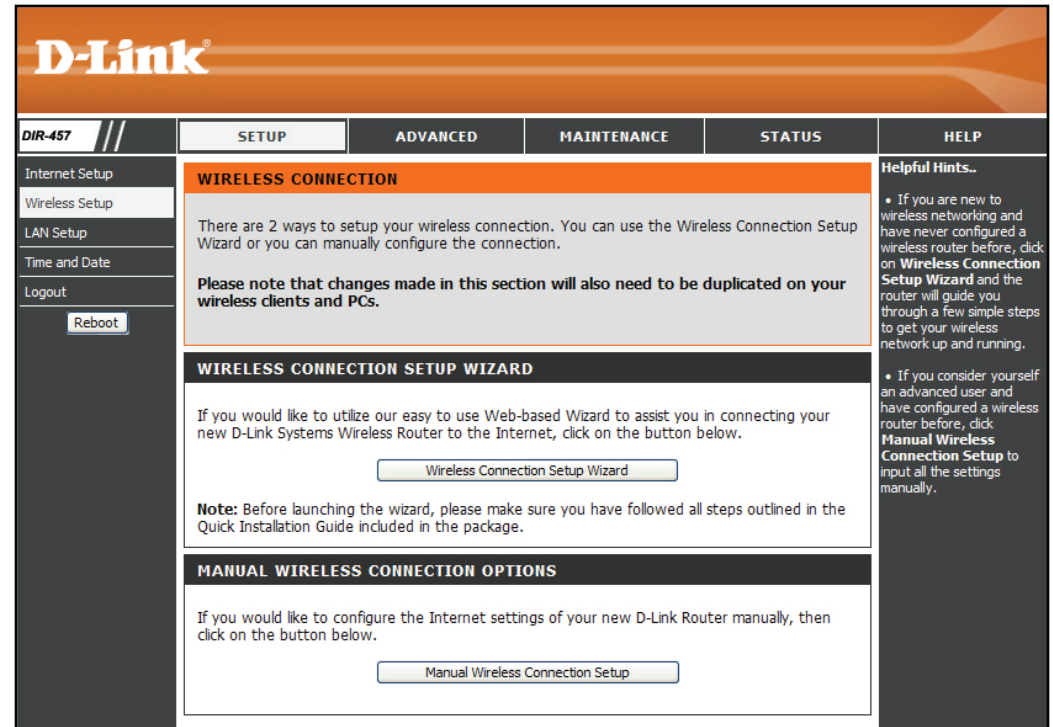
Click the **Save Settings** button when you have finished configuring the 3G connection.

The screenshot shows the D-Link DIR-457 web configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists menu items: Internet Setup, Wireless Setup, LAN Setup, Time and Date, and Logout. The main content area is titled "INTERNET CONNECTION" and contains instructions on how to configure the Internet connection method. It lists several methods: Static IP, DHCP, PPPoE, PPTP, L2TP, Russian PPTP (Dual Access), and Russian PPPoE (Dual Access). A note states that if using the PPPoE option, any PPPoE client software on computers must be removed or disabled. There are "Save Settings" and "Do Not Save Settings" buttons. Below this is the "WWAN INTERNET SERVICE PROVIDER SETUP" section, which prompts the user to enter information from their ISP. It includes fields for Mode (set to Auto), Country, ISP, PIN (optional), User Name (optional), Password (optional), Dial Number (prefixed with *99#), Authentication Protocol (set to Auto (PAP + CHAP)), APN (optional), Reconnect Mode (radio buttons for Always-on, Connect-on demand, and Manual), and Maximum Idle Time (set to 2 minutes, with 0 for infinite). There are also "Save Settings" and "Do Not Save Settings" buttons at the bottom. On the right side, there are "Helpful Hints..." and "Support:" sections with additional guidance.

Wireless Settings

If you want to configure the wireless settings on your router using the wizard, click **Wireless Connection Setup Wizard**.

If you want to manually configure the wireless settings on your router click **Manual Wireless Connection Setup** and refer to “Manual Wireless Connection Setup”.



Click the **Wireless Connection Setup Wizard** button to view the **Wireless Security Setup Wizard** menu. The Welcome menu lists the steps used for setup. Click on the **Next** button to continue.



Wireless Connection Setup Wizard

Enter the SSID (Service Set Identifier). The SSID is the name of your wireless network. Create a name using up to 20 characters. The SSID is case-sensitive.

If you would like the router to automatically assign a network key to your network, click the **Automatically assign a network key** radio button.

Click **Next** to continue.

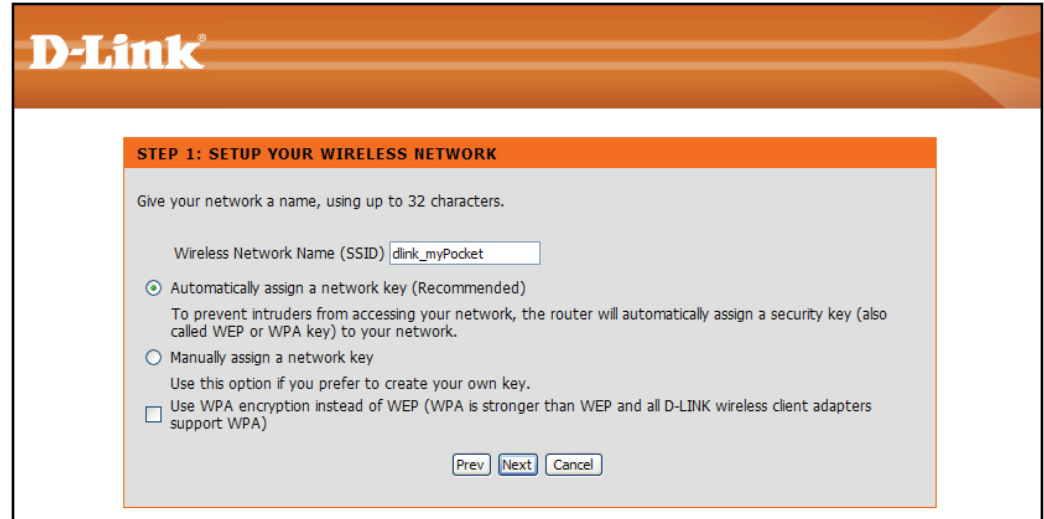
Alternatively, click the **Manually assign a network key** radio button to create your own network key; or, click to check the **Use WPA encryption...** box.

Click **Next** to continue.

The following window appears if you selected the option to manually create your own network key.

Type a password that you would like to use for wireless security in the **Network Key:** entry field.

Click **Next** to continue.



D-Link

STEP 1: SETUP YOUR WIRELESS NETWORK

Give your network a name, using up to 32 characters.

Wireless Network Name (SSID)

☒ Automatically assign a network key (Recommended)
To prevent intruders from accessing your network, the router will automatically assign a security key (also called WEP or WPA key) to your network.

☐ Manually assign a network key
Use this option if you prefer to create your own key.

☐ Use WPA encryption instead of WEP (WPA is stronger than WEP and all D-LINK wireless client adapters support WPA)



D-Link

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

You have selected your wireless security level - you will need to set a wireless security password. The WEP (Wired Equivalent Privacy) key must meet one of following guidelines:

- Exactly 5 or 13 characters
- Exactly 10 or 26 characters: using 0-9 and A-F

A longer WEP key is more secure than a short one

Network Key :

Note: You will need to enter the same password that you created in this step into your wireless clients in order to enable proper wireless communication.

If you choose the WPA encryption option, a new menu appears. Enter the **Network Key** of 64 hexadecimal characters in the entry field. This will be the WPA password required to use the DIR-457.

Click **Next** to continue.



D-Link

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

You have selected your wireless security level - you will need to set a wireless security password. The WPA (Wi-Fi Protected Access) key must meet one of following guidelines:

- Between 8 to 63 characters (A longer WPA key is more secure than a short one)
- Exactly 64 characters using 0-9 and A-F

Network Key :

Note: You will need to enter the same password that you created in this step into your wireless clients in order to enable proper wireless communication.

The final menu appears to indicate that the setup is completed.

If you selected the option that automatically generated a network key, the automatically generated key will display next to the **Network Key** field.

If you manually specified a network key, the **Wireless Security Password** that you specified will display next to the **Network Key** field.



D-Link

SETUP COMPLETE!

Below is a detailed summary of your wireless security settings. Please print this page out, or write down the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

Wireless Network Name (SSID) : dlink_myPocket

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type : TKIP or AES

Network Key : huJdYdFWrr

Note: In some smart wireless utilities (e.g. D-Link Wireless Utility or Wireless Zero Configuration), you only need to select a Wireless Network Name and enter a Network Key to access the Internet.

Click **Save** to finish the Security Wizard.

Manual Wireless Connection Setup

To add a wireless client with WPS, please see the section Add Wireless Device With WPS.

Wireless Network Name: Service Set Identifier (SSID) is the name of your wireless network. Create a name using up to 20 characters. The SSID is case-sensitive.

Enable Auto Channel Selection: The **Auto Channel Scan** setting can be selected to allow the DIR-457 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DIR-457. By default the channel is set to 6. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable **Auto Channel Scan**, this option will be greyed out.

Transmission Rate: Select the transmit rate. It is strongly suggested to select **Best (Auto)** for best performance.

WMM Enable: WMM (Wi-Fi Multimedia) is QoS for your wireless network. Check this box to improve the quality of video and voice applications for your wireless clients.

Enable Hidden Wireless: Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform a scan to see what's available. In order for your wireless devices to connect to your router, you will need to manually enter the Wireless Network Name on each device.

Wireless Security: Choose the wireless security method used for your network and configure the settings according to the requirements of the selected security mode. Wireless security options include WEP, WPA, and WPA2.

The screenshot displays the D-Link DIR-457 web configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar shows a menu with options: Internet Setup, Wireless Setup (selected), LAN Setup, Time and Date, Logout, and a Reboot button.

The main content area is titled "WIRELESS NETWORK" and contains the following sections:

- WIRELESS NETWORK:** A introductory text block explaining the purpose of the section and the supported security modes (WEP, WPA, WPA2). It includes "Save Settings" and "Do Not Save Settings" buttons.
- WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA):** This section allows enabling WPS. It shows the "Enable" checkbox, a "Current PIN" of 12345670, and buttons for "Generate New PIN", "Reset PIN to Default", "Reset to Unconfigured", and "Add Wireless Device with WPS". The "Wi-Fi Protected Status" is currently "Disabled / Not Configured".
- WIRELESS NETWORK SETTINGS:** This section configures the basic network parameters:
 - Wireless Network Name: (Also called the SSID)
 - Enable Auto Channel Selection: ☒
 - Wireless Channel:
 - Transmission Rate: (Mbit/s)
 - WMM Enable: ☐ (Wireless QoS)
 - Enable Hidden Wireless: ☐ (Also called the SSID Broadcast)
- WIRELESS SECURITY MODE:** This section sets the security mode. The "Security Mode" dropdown is currently set to "Disable Wireless Security (not recommended)". It includes "Save Settings" and "Do Not Save Settings" buttons.

On the right side of the interface, there is a "Helpful Hints..." section with several bullet points providing additional guidance on setting up the wireless network, including recommendations for WPA2, WPS, and hidden mode.

LAN Setup

This section will allow you to change the local network settings of the router and to configure the DHCP settings.

Router IP Address: Enter the IP address of the router. The default IP address is 192.168.0.1.

If you change the IP address, once you click **Save Settings**, you will need to enter the new IP address in your browser to get back into the configuration utility.

Default Subnet Mask: Enter the Subnet Mask. The default subnet mask is 255.255.255.0.

Local Domain Name: Enter the Domain name (Optional).

Enable DNS Relay: Uncheck the box to transfer the DNS server information from your ISP to wireless clients. If checked, your computers will use the router for DNS relay.

The screenshot displays the D-Link DIR-457 web configuration utility. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various setup options: Internet Setup, Wireless Setup, LAN Setup (selected), Time and Date, and Logout. A Reboot button is also visible.

The main content area is titled "NETWORK SETTING" and contains the following text: "Use this section to configure the internal network settings of your router and also to configure the built-in DHCP server to assign IP addresses to computers on your network. The IP address that is configured here is the IP address that you use to access the Web-based management interface. If you change the IP address in this section, you may need to adjust your PC's network settings to access the network again." Below this text is a note: "Please note that this section is optional and you do not need to change any of the settings here to get your network up and running." At the bottom of this section are two buttons: "Save Settings" and "Do Not Save Settings".

The "ROUTER SETTINGS" section follows, with the same explanatory text. It contains the following fields:

- Router IP Address: 192.168.0.1
- Default Subnet Mask: 255.255.255.0
- Local Domain Name: (empty field)
- Enable DNS Relay: ☒

The "DHCP CLIENT LIST" section shows a table with the following data:

Host Name	IP Address	MAC Address	Expired Time
04144p1win2k	192.168.0.2	00:26:5A:07:9C:30	6 day(s) 23 hr(s) 13 min(s) 50 sec(s)

The "16 - DHCP RESERVATION" section shows the "Remaining number of clients that can be configured : 16". Below this is a table for configuring reservations:

	Computer Name	IP Address	MAC Address	
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v

A "Helpful Hints.." section on the right side of the page provides additional information: "• If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, uncheck **Enable DHCP Server** to disable this feature."

DHCP Reservation

If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device. Configure the parameters, as described below, to create a new DHCP Reservation.

DHCP Reservations List: Displays a list of the DHCP reservations that have been configured on the router.

Number of Dynamic DHCP Clients: In this section, you can see information about the LAN devices that are currently being leased IP addresses.

Computer Name: Enter the computer name or select a computer name from the drop-down menu on the right-hand side and click <<.

IP Address: Enter the IP address you want to assign to the computer or device.

MAC Address: Enter the MAC address of the computer or device.

DHCP CLIENT LIST

Host Name	IP Address	MAC Address	Expired Time
04144p1win2k	192.168.0.2	00:26:5A:07:9C:30	6 day(s) 23 hr(s) 53 min(s) 10 sec(s)

16 - DHCP RESERVATION

Remaining number of clients that can be configured : 16

	Computer Name	IP Address	MAC Address	
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
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<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v
<input type="checkbox"/>				<< Computer Name v

Save Settings
Do Not Save Settings

When you have finished configuring the above settings, check the boxes next to the DHCP Reservation entries you want to add to the DHCP Reservations List and click the **Save Settings** button at the top or bottom of the window to save your entries and activate your reservations.

Time and Date

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the Time Server. Daylight Saving can also be configured to automatically adjust the time when needed.

Time Zone: Select the Time Zone from the drop-down menu.

Enable Daylight Saving: Check the box to enable Daylight Saving time.

Sync your Computer's Time Settings: Click this button to set the device's time the same to local PC.

Automatic Time and Date Configuration: Check the box to enable the device to automatically synchronize with a D-Link NTP Server. NTP stands for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Select one of the D-Link NTP Servers from the drop-down menu. The DIR-457 will then synchronize its clock to be the same time as the D-Link Internet time server. Click the **Update Now** button to synchronize with the D-Link Internet time server immediately.

Set the Time and Date Manually: To manually input the time, use the drop-down menus to enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second.

The screenshot shows the D-Link DIR-457 web configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various setup options: Internet Setup, Wireless Setup, LAN Setup, Time and Date (selected), and Logout. The main content area is titled 'TIME AND DATE' and contains the following sections:

- TIME AND DATE CONFIGURATION:** Displays the current time as 01/01/2000 00:52:16. The Time Zone is set to (GMT-08:00) Pacific Time (US & Canada); Tijuana. There is a checkbox for 'Enable Daylight Saving' and a button labeled 'Sync. your computer's time settings'.
- AUTOMATIC TIME AND DATE CONFIGURATION:** Includes a checkbox for 'Automatically synchronize with D-Link's Internet time server'. Below it, the 'NTP Server Used' is set to ntp1.dlink.com, with an 'Update Now' button.
- SET THE TIME AND DATE MANUALLY:** Features six drop-down menus for Year (2009), Month (Oct), Day (29), Hour (12), Minute (21), and Second (47). At the bottom are 'Save Settings' and 'Do Not Save Settings' buttons.

A 'Helpful Hints..' section on the right side of the main content area provides additional guidance: 'Either enter the time manually by clicking the Sync. Your Computers Time Settings button, or use the Automatic Time Configuration option to have your router synchronize with a time server on the Internet.'

Click the **Save Settings** button at the top or bottom of the window to save the Time and Date settings.

Port Forwarding

Port Forwarding is a feature that allows you to open a single port or a range of ports and redirect the data received through those ports to a single PC on your network.

Name: Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to in the **Private IP** field. You have the option of specifying a **Public IP** address for the incoming connection.

Public Port/ Private Port: Enter the range of ports that you want to open next to the **Private Port** and **Public Port** fields. The private and public ports are usually the same. The private ports are the ports being used by the application on the computer within your local network, and the public ports are the ports seen from the Internet side.

Traffic Type: Use the drop-down menu to select whether **TCP**, **UDP**, or **Any** types of traffic are being used for the port forwarding rule.

Schedule: Select a schedule for when the Port Forwarding Rule will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled.

D-Link

DIR-457U

SETUP ADVANCED MAINTENANCE STATUS HELP

Port Forwarding

Filter Rules

Firewall & DMZ

File Sharing

Advanced Network

Logout

Reboot

ADVANCED PORT FORWARDING RULES

The Advanced Port Forwarding option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Do Not Save Settings

20 - ADVANCED PORT FORWARDING RULES

Remaining number of rules that can be created: 20

	Name	Private IP	Public Port	Private Port	Traffic Type
<input type="checkbox"/>	<input type="text"/> << Application Name	<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/> << Application Name	<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	Any

Helpful Hints..

- Check the **Application Name** drop-down menu for a list of pre-defined applications that you can select from. If you select one of the pre-defined applications, click the arrow button next to the drop-down menu to fill out the appropriate fields.
- Enter the IP address manually of the computer you would like to open the specified port to.
- This feature allows you to open a range of ports to a computer on your network. To do so, enter the first port in the range you would like to open on the router in the first box under **Public Port** and last port of the range in the second one. After that you enter the first port in the range that the internal

When you have finished configuring the above settings, click to check the boxes next to the Forwarding Rules entries you want to be active and click the **Save Settings** button at the top or bottom of the window to save the settings. .

Filter Rules

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the Network. You can add a MAC address of any clients and allow or deny access.

MAC Address: Enter the MAC address you would like to filter.

Destination Port: (Optional) Enter a port or range of ports used for the filter rule.

Traffic Type: Select the protocol of the firewall port (**TCP**, **UDP**, or **Any**).

Action: Choose to **Allow** or **Deny** the traffic.

Schedule: Select a schedule for when the Network Filter from the drop-down menu or click the **New Schedule** button to configure a new schedule.

The screenshot shows the D-Link DIR-457U web configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various configuration options: Port Forwarding, Filter Rules (selected), Firewall & DMZ, File Sharing, Advanced Network, and Logout. The main content area is titled 'FILTER RULES' and contains a description: 'The Filter Rules option is used to control network access based on the MAC/IP Address of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access.' Below this are 'Save Settings' and 'Do Not Save Settings' buttons. A section titled '20 - FILTER RULES' indicates 'Remaining number of rules that can be created: 20'. It features a table with columns for MAC/IP Address, Destination Port, Traffic Type, Action, and Schedule. Two rule entries are shown, each with checkboxes for enabling the rule, input fields for MAC and IP addresses, a tilde symbol for the destination port, a dropdown for traffic type (set to 'Any'), a dropdown for action (set to 'Deny'), and a dropdown for schedule (set to 'Always') with a 'New Schedule' button. A 'Reboot' button is located in the bottom left of the sidebar. A 'Helpful Hints...' section on the right provides additional guidance.

	MAC/IP Address	Destination Port	Traffic Type	Action	Schedule
<input type="checkbox"/>	MAC Address [Input Field]	[Input Field]	[Any]	[Deny]	[Always] [New Schedule]
	IP Address [Input Field]	~ [Input Field]			
<input type="checkbox"/>	MAC Address [Input Field]	[Input Field]	[Any]	[Deny]	[Always] [New Schedule]
	IP Address [Input Field]	~ [Input Field]			

When you have finished configuring the above settings, click to check the boxes next to the Filter Rules entries you want to be active and click the **Save Settings** button at the top or bottom of the window to save the settings.

Firewall & DMZ

A firewall protects your network from intrusion and other malicious actions from the public Internet or WAN. The D-Link DIR-457 offers a Firewall type functionality. It might be desirable disable firewall protection for a LAN client running certain application that are incompatible with the firewall. If you choose to expose a single system, you can enable DMZ for one IP address on the private network. DMZ is short for Demilitarized Zone. This option will expose the chosen system and make it visible on the Internet.

Enable WAN to LAN Firewall: This is enabled by default. To disable the Firewall, click to remove the check mark.

DMZ Host: Check the **DMZ Enable** box and specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication in the DMZ IP Address field.

Schedule: Select a schedule for when the DMZ will be enabled from the drop-down menu or click the **New Schedule** button to configure a new schedule.

Firewall Rules: Use this section to select rules used for the Firewall. The rule options include some of the commonly used methods of attack and port scanning. The service filters for FTP, Telnet and Ping from the WAN are not enabled by default. If these are enabled these services will be unavailable from the WAN.

Click the **Save Settings** button at the top or bottom of the window to save the Firewall settings.

Product Page : DIR-457U Firmware Version : 1.01

D-Link

DIR-457U // SETUP ADVANCED MAINTENANCE STATUS HELP

Port Forwarding
Filter Rules
Firewall & DMZ
File Sharing
Advanced Network
Logout

FIREWALL & DMZ SETTINGS

Firewall rules can be used to allow or deny traffic passing through the router.

DMZ means "Demilitarized Zone". DMZ allows computers behind the router firewall to be accessible to Internet traffic. Typically, your DMZ would contain Web servers, FTP servers and others.

Save Settings Do Not Save Settings

OUTSIDE FIREWALL SETTING

Enable WAN to LAN Firewall : ☒

Firewall Setting Part Name	Firewall Part Setting Items
DMZ	DMZ Enable : <input type="checkbox"/> IP : <input type="text"/> Always <input type="button" value="New Schedule"/>
DOS ATTACK	Enable DoS ATTACK Prevention : <input checked="" type="checkbox"/> Syn Flooding : <input checked="" type="checkbox"/> Icmp Flooding : <input checked="" type="checkbox"/>
PORT SCAN ATTACK	Enable PORT SCAN ATTACK Prevention : <input checked="" type="checkbox"/> Enable NAMP Xmas Prevention : <input checked="" type="checkbox"/> Enable Xmas Prevention : <input checked="" type="checkbox"/> Enable NULL Scan Prevention : <input checked="" type="checkbox"/> Enable SYN ACK Prevention : <input checked="" type="checkbox"/> Enable SYN RST Prevention : <input checked="" type="checkbox"/> Enable SYN FIN Prevention : <input checked="" type="checkbox"/>
SERVICE FILTER	Enable SERVICE FILTER Blocking : <input type="checkbox"/> PING From WAN Blocking : <input type="checkbox"/> Telnet Blocking : <input type="checkbox"/> FTP Blocking : <input type="checkbox"/>

Save Settings Do Not Save Settings

Helpful Hints..

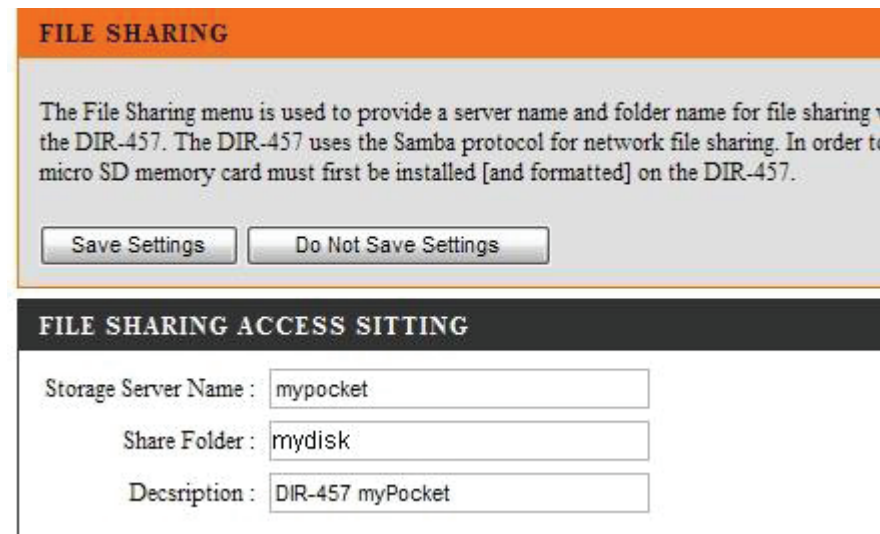
- DMZ: Only enable the DMZ option as a last resort. If you are having trouble using an application from a computer behind the router, first try opening ports associated with the application in the Advanced Port Forwarding section.

File Sharing

The File Sharing menu is used to set up file sharing for clients connected to the DIR-457. The DIR-457 uses the Samba protocol for network file sharing. In order to use this feature, a micro SD memory card must first be installed and formatted on the DIR-457. The Share Folder on the DIR-457 functions in a way similar to a shared folder on a Network Attached Storage device or on a Networked Computer in the LAN.

Storage Server The default Storage Server Name is
Name: **mypocket.**

Share Folder: The default name for the Share Folder is
mydisk.



The screenshot shows the 'FILE SHARING' configuration page. At the top, there's an orange header with the text 'FILE SHARING'. Below it, a grey box contains a descriptive paragraph: 'The File Sharing menu is used to provide a server name and folder name for file sharing on the DIR-457. The DIR-457 uses the Samba protocol for network file sharing. In order to use this feature, a micro SD memory card must first be installed [and formatted] on the DIR-457.' Below this text are two buttons: 'Save Settings' and 'Do Not Save Settings'. Below the grey box is a black header with the text 'FILE SHARING ACCESS SITTING'. Underneath, there are three input fields: 'Storage Server Name : mypocket', 'Share Folder : mydisk', and 'Decsription : DIR-457 myPocket'.

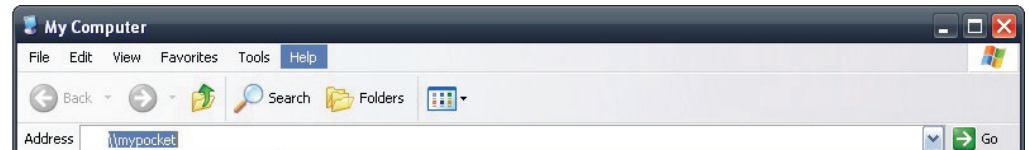
FILE SHARING	
The File Sharing menu is used to provide a server name and folder name for file sharing on the DIR-457. The DIR-457 uses the Samba protocol for network file sharing. In order to use this feature, a micro SD memory card must first be installed [and formatted] on the DIR-457.	
<input type="button" value="Save Settings"/> <input type="button" value="Do Not Save Settings"/>	
FILE SHARING ACCESS SITTING	
Storage Server Name :	<input type="text" value="mypocket"/>
Share Folder :	<input type="text" value="mydisk"/>
Decsription :	<input type="text" value="DIR-457 myPocket"/>

Note: Any files in the Share Folder can be read/written by other wireless clients connected to the Access Point. This device does not support hot-plugging for the micro SD memory card.

For accessing the shared folder in the router using Windows XP® or Windows® Vista, you can choose one of following methods to read or write the shared files.

Windows XP

Step 1 Open a browser window.



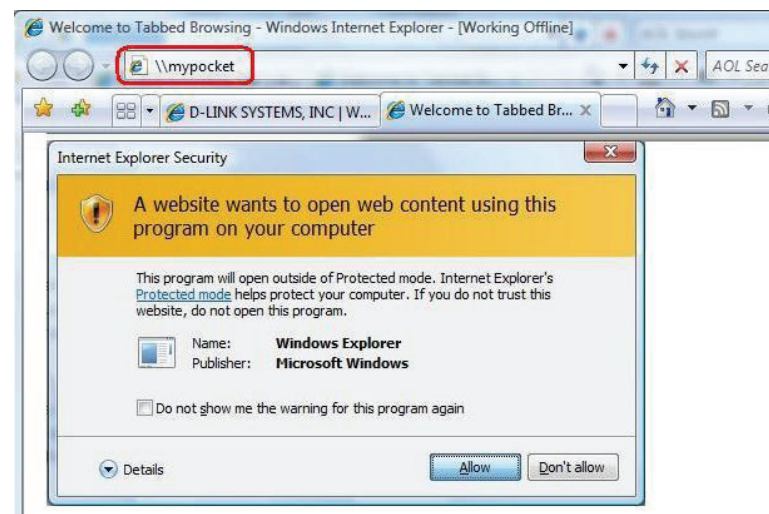
Step 2 Input \\ followed by the Storage Server name or the IP address of the router in the URL input text box (\\mypocket or \\192.168.0.1). (you can enter default Storage Server name or user-configured name).

Note: If prompted for the username and password, please keep the password field blank to log in.

Windows Vista

Step 1 Open a browser window.

Step 2 Input \\ followed by the Storage Server name or the IP address of the router in the URL input text box (\\mypocket or \\192.168.0.1). (you can enter default Storage Server name or user-configured name).

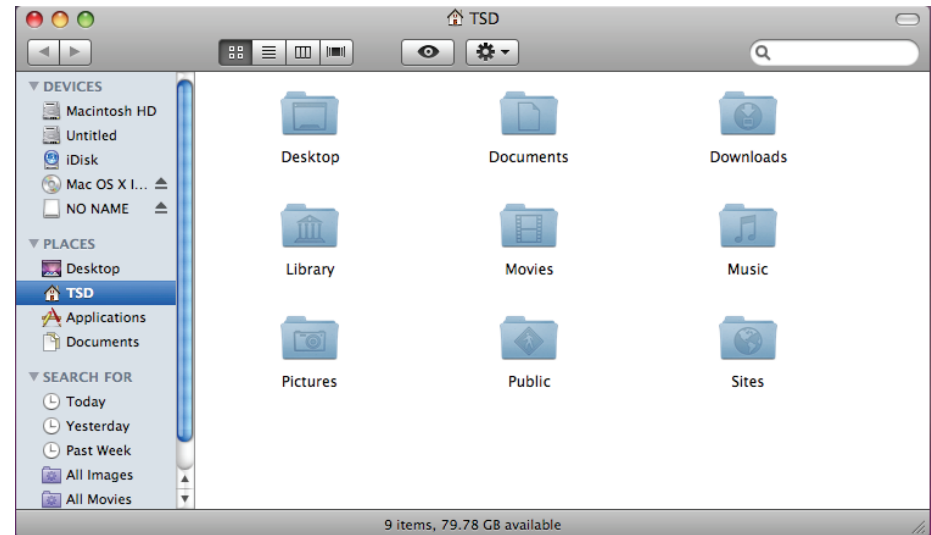


Note: If an Internet Security warning pops up, please click **Allow**. If prompted for the username and password, please keep the password field blank to log in.

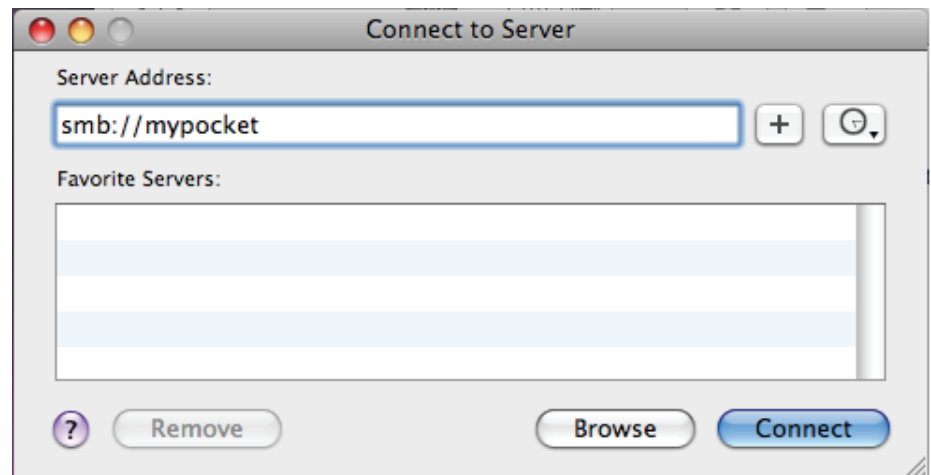
For accessing the shared folder in the router using Mac OS X, follow these steps to read or write the shared files.

Mac OS

Step 1 Open the **Finder** window.



Step 2 To bring up a server connection window, hit the **[Apple] key** and the **[K] key** together. You will then be prompted to enter a server address. Enter **smb://mypocket** (or smb://192.168.0.1) and click **Connect**.

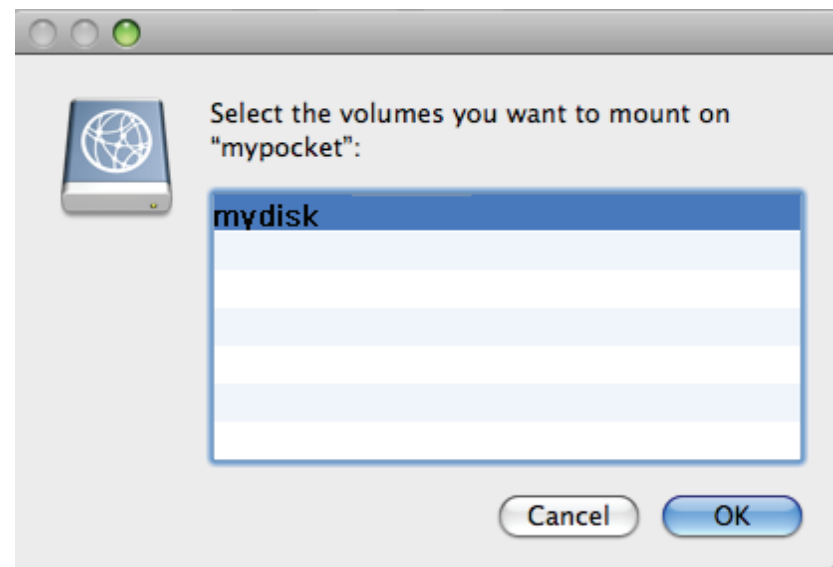


Step 3

Next, you will be prompted for the username and password. You can keep the password field blank to log in.

**Step 4**

You will be prompted: "Select the volume you want to mount on mypocket" Select **mydisk**, and then click **OK**.



Advanced Network

UPnP: To use the Universal Plug and Play (UPnP™) feature check the **Enable UPNP** box. UPNP provides compatibility with networking equipment, software and peripherals.

Multicast Streams: Check the **Enable Multicast Streams** box to allow multicast traffic to pass through the router from the Internet.

Check the **Wireless Enhance Mode** box to enable the router to forward all multicast streams from the Internet to the wireless station using a unicast stream. This feature helps improve the quality of multimedia applications for wireless users.

Click the **Save Settings** button at the top or bottom of the window to save the Advanced Network settings.

D-Link

DIR-457U

SETUP ADVANCED MAINTENANCE STATUS HELP

Port Forwarding
Filter Rules
Firewall & DMZ
File Sharing
Advanced Network
Logout

ADVANCED NETWORK SETTINGS

These options are for users that wish to change the LAN settings. We do not recommend changing these settings from factory defaults. Changing these settings may affect the behavior of your network.

Save Settings Do Not Save Settings

UPNP

Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.

Enable UPnP : ☒

MULTICAST STREAMS

Enable Multicast Streams : ☐
Wireless Enhance Mode : ☐

Save Settings Do Not Save Settings

Helpful Hints..

- **UPnP** is short for Universal Plug and Play which is a networking architecture that provides compatibility among networking equipment, software, and peripherals.
- If you are having trouble receiving video on demand type of service from the Internet, make sure the Multicast Stream option is enabled.

Device Administration

This page will allow you to change the Administrator password. You can also enable Remote Management.

Note: The default User Name (**admin**) for the device cannot be changed.

Admin Password: Enter and confirm a new password for the administrator login name. The administrator can change the password but not the login name “admin”.

Enable Remote Management: Remote management allows the DIR-457 to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform Administrator tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host.

Remote Control IP Address: Enter the remote IP address from which the administrator logs in when remote management is enabled.

Port: The port number used to access the DIR-457.

Enable Remote Telnet: Check this to enable remote device management via Telnet.

Remoter Control IP Address: Enter the remote IP address from which the administrator logs in when remote Telnet management is enabled.

Click the **Save Settings** button at the top or bottom of the window to save the Administrator settings.

Product Page : DIR-457U

Firmware Version : 1.01

DIR-457U

Device Administration

Save and Restore

Firmware Update

DDNS Setting

Schedules

Log Settings

Logout

Reboot

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

ADMINISTRATOR SETTINGS

The 'admin' accounts can access the management interface. The admin has read/write access and can change passwords. It is highly recommended that you create a password to keep your router secure.

Save Settings

Do Not Save Settings

Please enter the same password into both boxes,for confirmation.

New Password:

Confirm Password:

REMOTE MANAGEMENT

Enable Remote Management: ☐

IP Allowed to Access:

Port:

Enable Remote Telnet: ☐

Remote Control IP Address:

Helpful Hints..

- For security reasons, it is recommended that you change the Password for the Administrator accounts. Be sure to write down the new Login Names and Passwords to avoid having to reset the router in the event that they are forgotten.
- When enabling Remote Management, you can specify the IP address of the computer on the Internet that you want to have access to your router, or leave it 0.0.0.0 to allow access to any computer on the Internet.

Save and Restore

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

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

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

Reboot: Click to **Reboot** button located in the left panel of the menu to restart the router.

The screenshot shows the D-Link DIR-457U web configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains a menu with options: Device Administration, Save and Restore, Firmware Update, DDNS Setting, Schedules, Log Settings, Logout, and a Reboot button. The main content area is titled 'SAVE AND RESTORE SETTINGS' and contains the following text: 'Once the router is configured you can save the configuration settings to a configuration file on your hard drive. You also have the option to load configuration settings, or restore the factory default settings.'

Below this text, there are four sections with buttons:

- Save Settings To Local Hard Drive :
- Load Settings From Local Hard Drive :
- Restore To Factory Default Settings :
- Clear Language Pack :

On the right side, under 'Helpful Hints...', there is a note: 'Once your router is configured the way you want it, you can save these settings to a configuration file that can later be loaded in the event that the router's default settings are restored. To do this, click the Save button next to where it says Save Settings to Local Hard Drive.'

Firmware Update

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

Current Firmware Information: Displays the current firmware version and date. You can also check the availability of a new firmware version online. If so, download the new firmware to your hard drive.

Firmware Upgrade: After you have downloaded the new firmware, click the **Browse** button to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

Product Page : DIR-457U

Firmware Version : 1.01

DIR-457U	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
----------	-------	----------	-------------	--------	------

Device Administration
Save and Restore
Firmware Update
DDNS Setting
Schedules
Log Settings
Logout
Reboot

FIRMWARE UPDATE

There may be new firmware for your DIR-457U to improve functionality and performance. [Click here to check for an upgrade on our support site.](#)

To upgrade the firmware, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Upload button to start the firmware upgrade.

FIRMWARE INFORMATION

Current Firmware Version : 1.01
Current Firmware Date : Wed 03 Feb 2010

FIRMWARE UPGRADE

Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration.

To upgrade the firmware, your PC must have a wireless connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button.

Upload :

LANGUAGE PACK UPGRADE

Upload :

Helpful Hints..

- Firmware Updates are released periodically to improve the functionality of your router and also to add features.

Log Settings

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

Log Type: Use the selection boxes to choose the types of messages that should be displayed from the log.

D-Link

DIR-457U

SETUP ADVANCED MAINTENANCE STATUS HELP

Device Administration
Save and Restore
Firmware Update
DDNS Setting
Schedules
Log Settings
Logout
Reboot

LOG SETTINGS

Logs can be saved by sending it to an admin email address.

Save Settings Do Not Save Settings

SAVE LOG FILE

Save Log File To Local Hard Drive Save

LOG TYPE

Log Type	
	<input checked="" type="checkbox"/> System Activity
	<input type="checkbox"/> Debug Information
	<input checked="" type="checkbox"/> Attacks
	<input type="checkbox"/> Dropped Packets
	<input checked="" type="checkbox"/> Notice

Helpful Hints..

- Click on the **Save** button to save the log file to a local hard drive which can later be sent to the network administrator for troubleshooting. You can also select what type of event you would like logged from **Log Type**.

Click the **Save Settings** button at the top or bottom of the window to save the settings.

Device Information

This page displays the current information about the DIR-457 and the firmware version.

LAN: Displays the MAC address and the private (local) IP settings for the router.

Internet: Displays the MAC address and the public IP settings for the router.
The connection status is displayed along with **Connect** and **Disconnect** buttons used to connect or disconnect the Internet connection.

Wireless 802.11g: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

3G: Displays the 3G network information, battery status and 3G signal strength.

The screenshot shows the D-Link DIR-457 web configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for Device Info, Log, Statistics, Logout, and a Reboot button. The main content area is titled 'DEVICE INFORMATION' and contains the following sections:

- DEVICE INFORMATION:** A summary box stating 'All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.' and 'Firmware Version : 1.00B07 , Thu 08 Oct 2009'.
- LAN:** Displays network settings:
 - MAC Address : 00:26:5a:58:2f:94
 - IP Address : 192.168.0.1
 - Subnet Mask : 255.255.255.0
 - DHCP Server : Enabled
- INTERNET:** Displays internet connection settings:
 - MAC Address : 00:26:5a:58:2f:94
 - Connection : WWAN(3g) (Disconnected) with 'Connect' and 'Disconnect' buttons.
 - IP Address : 0.0.0.0
 - Subnet Mask : 0.0.0.0
 - Default Gateway : 0.0.0.0
 - DNS : 0.0.0.0
- WIRELESS 802.11G:** Displays wireless settings:
 - SSID : dlink_myPocket
 - Channel : 11
 - Encryption : Disabled
- 3G:** Displays 3G network information:
 - ISP Name :
 - Network Service Type : NONE
 - Battery Status : 100%
 - Signal Strength : 16%

A 'Helpful Hints..' section on the right side of the main content area states: 'All of your LAN, Internet and Wireless 802.11 G connection details are displayed here.'

Logs

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

First Page: Click this button to view the first page of the log file.

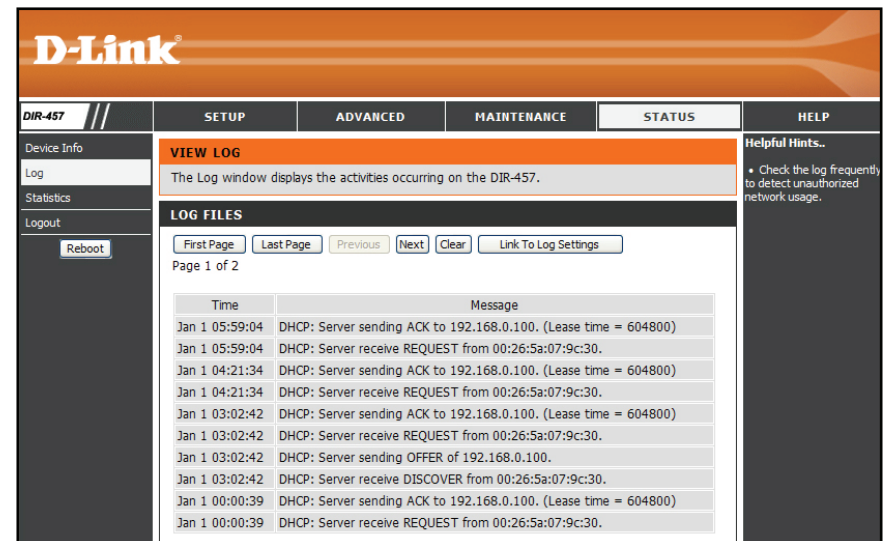
Last Page: Click this button to view the last page of the log file.

Previous: Click this button to view the previous page of the log file.

Next: Click this button to view the next page of the log file.

Clear: Clears all of the log contents.

Link to Log Settings: The user can click the button to “link to log settings” and save the logs to a local hard drive or to a Syslog server.



Statistics

The screen below displays the Traffic Statistics. Here you can view the amount of packets that pass through the DIR-457 on the Internet, LAN and Wireless connections. The traffic counter will reset if the device is rebooted.

The screenshot shows the D-Link DIR-457 web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for Device Info, Log, Statistics (selected), and Logout, along with a Reboot button. The main content area is titled 'TRAFFIC STATISTICS' and includes a description: 'The Traffic Statistics window displays the receive and transmit packets passing through the DIR-457.' Below this, there are 'Refresh' and 'Reset' buttons. A table displays the traffic statistics for Internet and WIRELESS (HOST) connections.

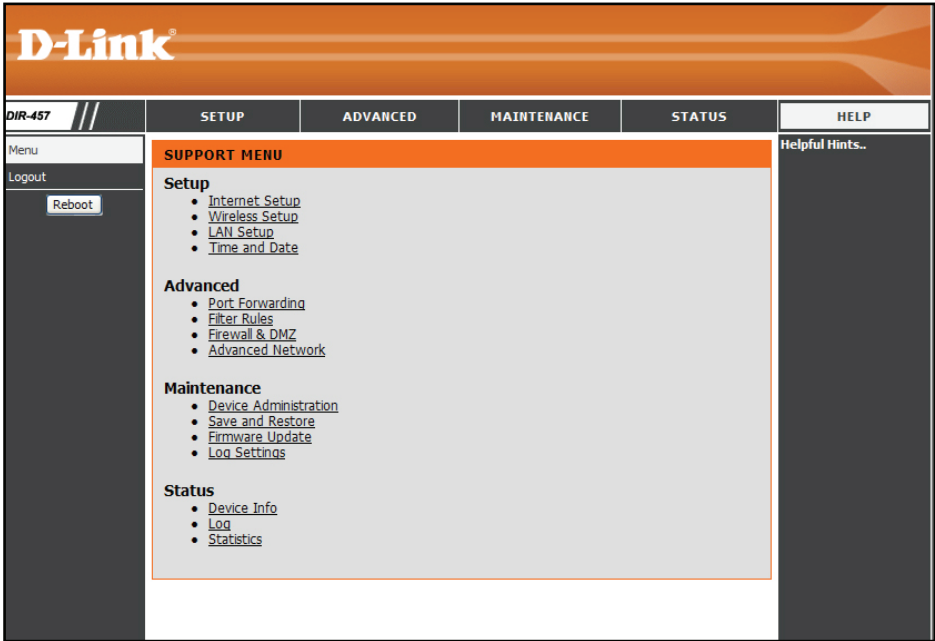
	Receive	Transmit
Internet	0 Packets	0 Packets
WIRELESS (HOST)	780 Packets	1104 Packets

Helpful Hints..

- This is a summary displaying the number of packets that have passed between the Internet and the LAN since the router was last initialized.

Support

Click on the links in the Help menu for a brief description of the of the configuration menus.



Add Wireless Device with WPS Wizard

From the **Setup > Wireless Setup** menu, click **Manual Wireless Connection Setup** button. Under the heading **Wi-Fi Protected Setup**, click the **Enable** option box and click on the **Save Settings** button to first enable WPS.

Click on the **Add Wireless Device with WPS** button.



WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)

Enable : ☐

Current PIN : 12345670

Generate New PIN Reset PIN to Default

Wi-Fi Protected Status : Disabled / Not Configured

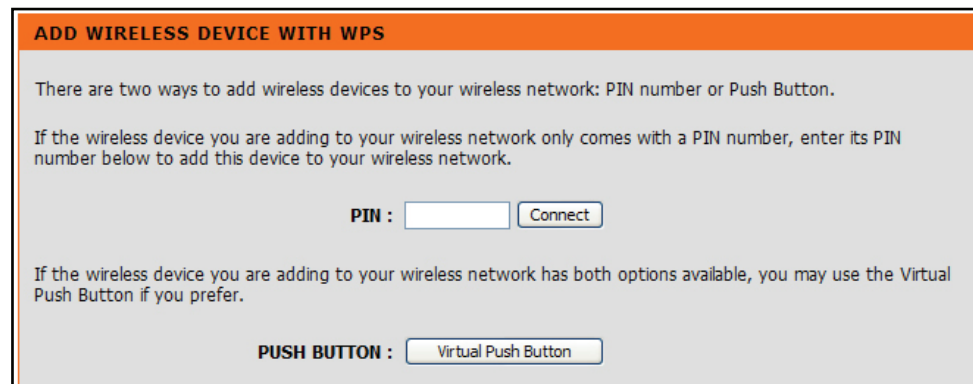
Reset to Unconfigured

Add Wireless Device with WPS

There are two options for establishing the WPS connection:

PIN: In order to use this method you must know the wireless client's 8 digit PIN and click **Connect**. After the connection is established, the web menu returns to the Manual Wireless Connection Setup page.

Push Button: To use the Push Button method, click on the **Virtual Push Button**, then press the WPS connection button on the wireless client that is trying to connect, or follow the instructions included with the WPS client device. After the connection is established, the web menu returns to the Manual Wireless Connection Setup page.



ADD WIRELESS DEVICE WITH WPS

There are two ways to add wireless devices to your wireless network: PIN number or Push Button.

If the wireless device you are adding to your wireless network only comes with a PIN number, enter its PIN number below to add this device to your wireless network.

PIN : Connect

If the wireless device you are adding to your wireless network has both options available, you may use the Virtual Push Button if you prefer.

PUSH BUTTON : Virtual Push Button

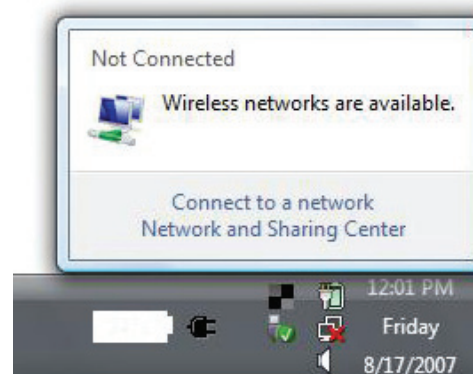
Connect to the Wireless Network Using Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's utility or Windows® 2000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

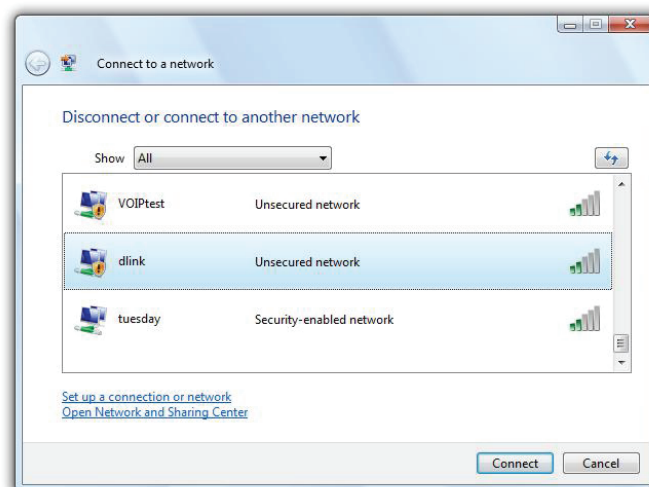
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.



The utility will display any available wireless networks in your area. Click on a network (dlink_mypocket) and click the **Connect** button.

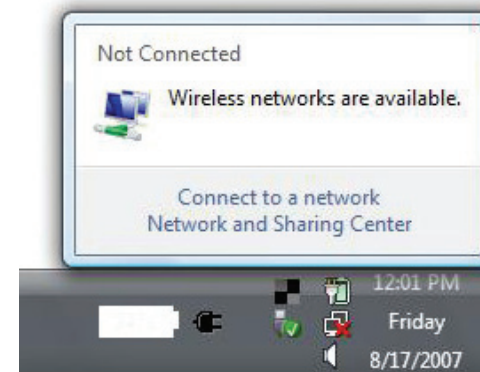
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



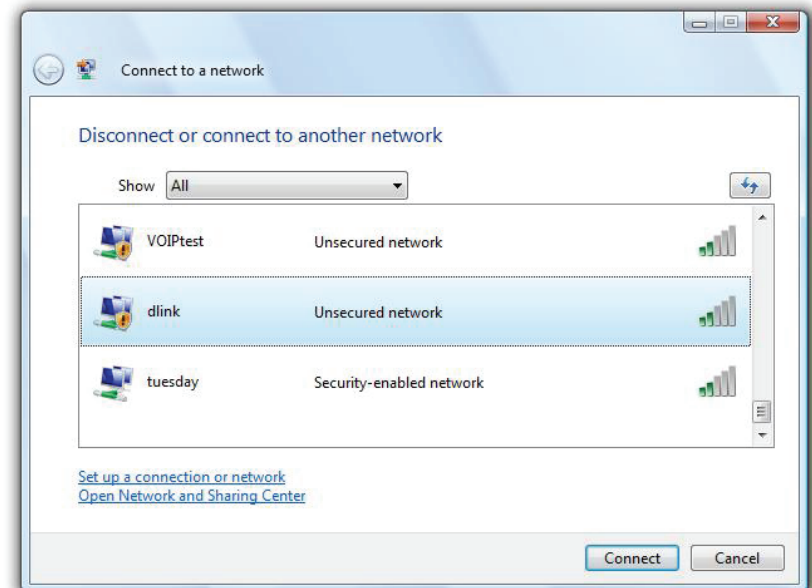
Configuring WPA-PSK/WPA2-PSK

It is recommended to enable wireless security (WPA-PSK/WPA2-PSK) on my_pocket router before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.



2. Highlight the wireless network **dlink_mypocket** and click **Connect**.



3. Enter the same security key or passphrase that is on your my_pocket router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.

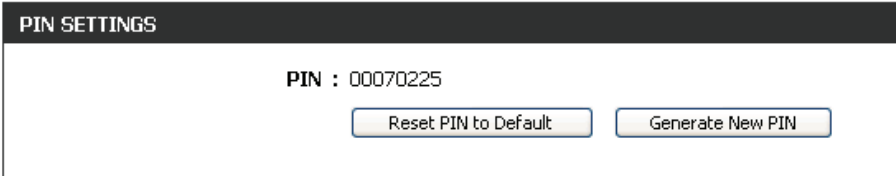


Connect Using WCN 2.0

The my_pocket router supports Wi-Fi protection, referred to as WCN 2.0 in Windows Vista®. The following instructions for setting this up depends on whether you are using Windows Vista® to configure the router or third party software.

When you first set up the router, Wi-Fi protection is disabled and unconfigured. To enjoy the benefits of Wi-Fi protection, the router must be both enabled and configured. There are three basic methods to accomplish this: use Windows Vista's built-in support for WCN 2.0, use software provided by a third party, or manually configure.

If you are running Windows Vista®, log into the router and click the **Enable** checkbox in the **Advanced > Wi-Fi Protected Setup** window. Use the Current PIN that is displayed in the **PIN Settings** section of **Advanced > Wi-Fi Protected Setup** window or choose to click the **Generate New PIN** button or **Reset PIN to Default** button.



The screenshot shows a web interface window titled "PIN SETTINGS". Inside the window, the text "PIN : 00070225" is displayed. Below this text are two buttons: "Reset PIN to Default" and "Generate New PIN".

If you are using third party software to set up Wi-Fi Protection, carefully follow the directions. When you are finished, proceed to the next section to set up the newly-configured router.

Connect to the Wireless Network Using Windows® XP

Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility or Windows® 2000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below.

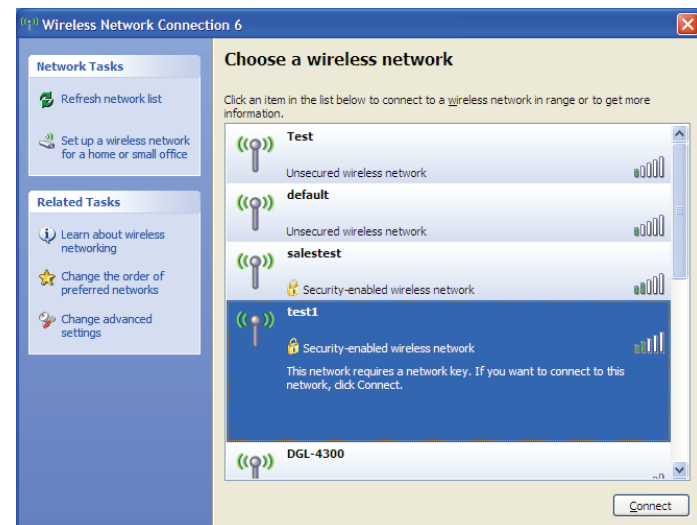
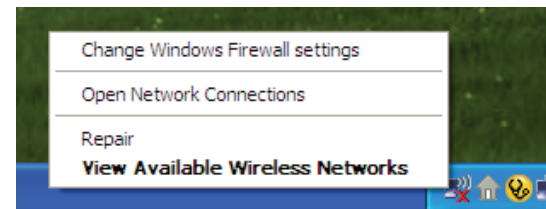
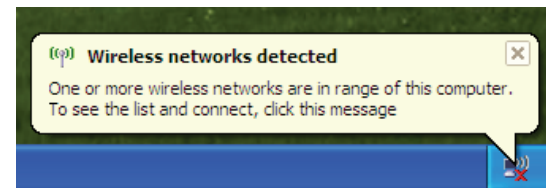
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

The utility will display any available wireless networks in your area. Click on a network (dlink_mypocket) and click the **Connect** button.

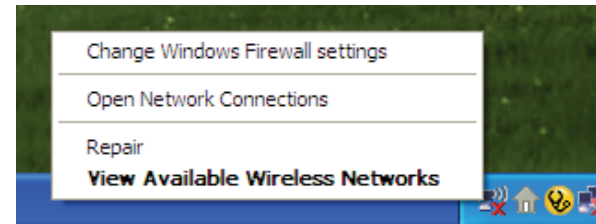
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



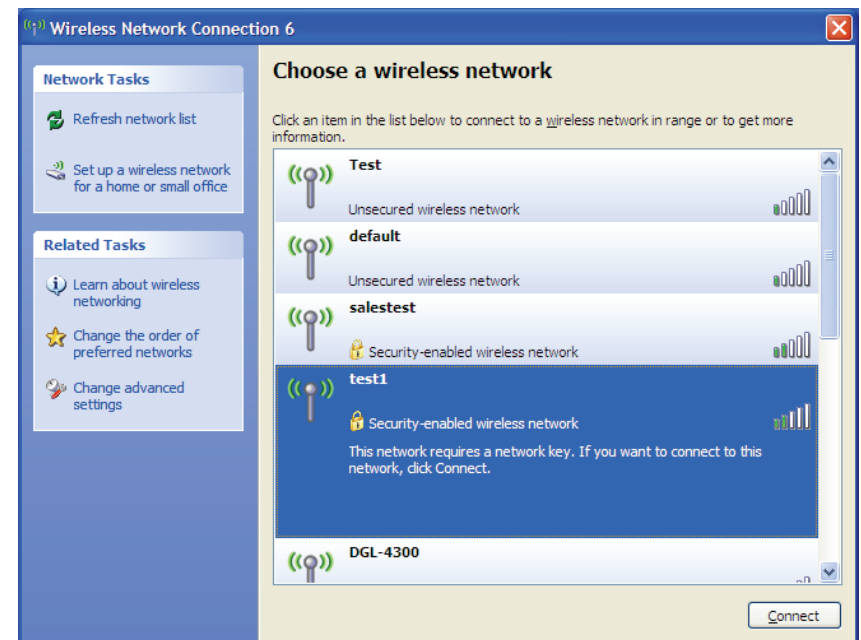
Configuring WPA-PSK/WPA2-PSK

It is recommended to enable wireless security (WPA-PSK/WPA2-PSK) on my_pocket router before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA-PSK/WPA2-PSK passphrase being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.

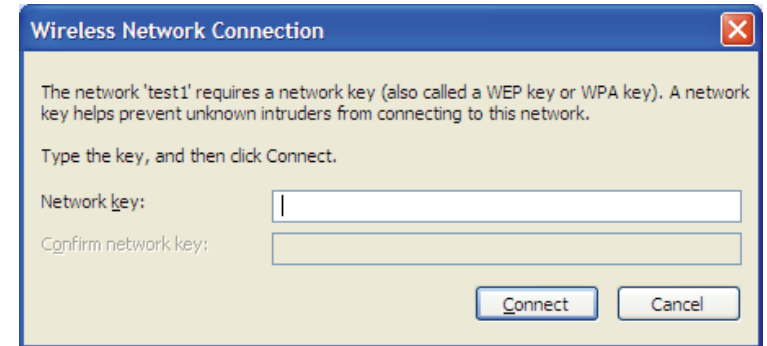


2. Highlight the wireless network (dlink_mypocket) and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK/WPA2-PSK passphrase and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK/WPA2-PSK settings are correct. The WPA-PSK/WPA2-PSK passphrase must be exactly the same as on the myPocket router.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-457. 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 screen shots on your computer will look similar to the following examples.) Please refer to the Quick Installation Troubleshooting section.

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 to 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 similar to how cordless phone work, through radio signals to 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 as seen in the picture, 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, college 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 which 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

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

Small Office and Home Office

- 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 Cardbus Adapter with your laptop, you can access the hotspot to connect to 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 product manual for detail information on how to set it up.

Networking Basics

Check your IP address

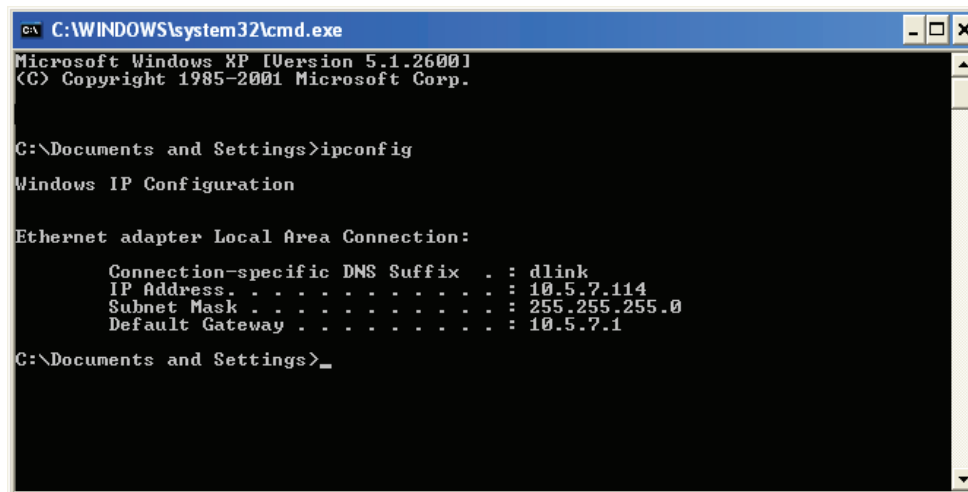
After you install your adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type **cmd** and click **OK**. (Windows 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 5.1.2600.1]
(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 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

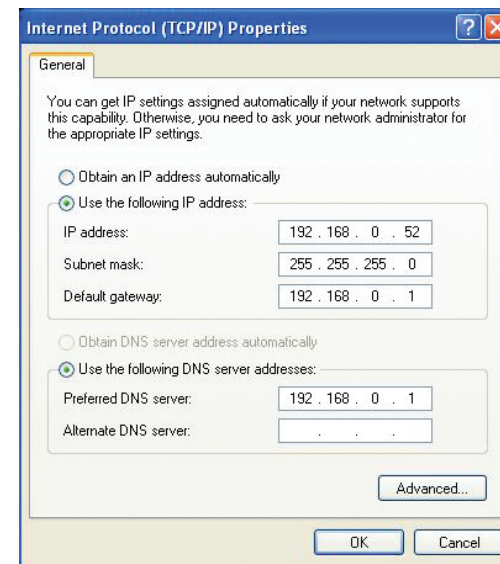
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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 Default Gateway the same as the LAN IP address of your router (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.



Technical Specifications

Standards

- IEEE 802.11b/g
- IEEE 802.3
- IEEE 802.3u

Security

- WEP (64/128 bit)
- WPA-PSK/WPA2-PSK
- WPS (PIN/PBC)

Wireless Signal Rates*

- 54Mbps
- 48Mbps
- 36Mbps
- 24Mbps
- 18Mbps
- 12Mbps
- 11Mbps
- 9Mbps
- 6Mbps
- 5.5Mbps
- 2Mbps

Frequency Range

- 2.4GHz to 2.483GHz

Output Power

- 802.11b (17dBm)
- 802.11g (14dBm)

Sensitivity

- 802.11b (-86dBm) at 11Mbps
- 802.11g (-72dBm) at 54Mbps

HSDPA Module (DIR-457)

- Throughput: DL up to 3.6 Mbps UL up to 384Kbps

LEDs

- Power Status
- Signal Status

Power Adapter

- DC 5V/1A

Power Consumption

- 2.5 Watts

Battery

- Voltage (3.7V)
- Capacity (1330mAh)
- Dimension (52mm x 37mm x 6.7mm)

SIM Card Slot

- Push-Push

Operating Temperature

- 32°F to 104°F (0°C to 40°C)

Operating Humidity

- 10%-90% non-condensing

Safety & Emissions

- FCC Class B
- CE Class B
- NCC
- GOST

Dimensions

- 110mm x 65mm x 13.6mm

Weight

- 75g (without battery)

* Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11b 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.

FCC 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.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

FCC Caution:

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

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.

IMPORTANT NOTE:**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 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

NCC Statement:

「減少電磁波影響，請妥適使用」

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。