Configuring a D-Link Router

DIR-825 Basic Configuration Steps
Configuring Your Router

STEP 1 (a): Connect Your PC to the Router

- Unbox the router and power up the router.
- Connect the Act internet cable to the WAN/Internet port (different colored port) of the router.
- An extra cable will be available with the router, take LAN cable connect one end to the LAN port (1-4) of the router (any one port) and one end to the PC or Laptop.
- In the system press `key & R key together` to open Run dialog box.
- Type `ipconfig` on the command prompt (Black screen). The default gateway of the LAN or Ethernet adapter will be the Router address. (Ex: 192.168.1.1)
STEP 1 (b): Connect Your Mobile

- Switch on the router and connect ACT internet cable to the WAN/Internet port of the router.
- Go to setting in the Mobile, turn on Wi-Fi and wait until the mobile detects router name, press the router name to connect.
- If the router is already configured and the Wi-Fi password is known then go to settings in the Mobile.
- Under “Wireless and Networks”, press Wi-Fi make sure "Wi-Fi" is turned on.
- Wait until the mobile detects router name press the router name if prompted enter the Wi-Fi password and press Connect.
NOTE

• Every Router Configuration has two parts
  – Configuring the Internet Part, where we tell the Router how to connect to the internet.
  – Configuring the Wi-Fi Part, where we decide the name and password with which we connect to the Router

• Internet Configuration shown here will guide to configure the Router in PPPoE.
  – This will enable you to browse internet directly, every time you connect to the router. No need to login again and again.

• Wi-Fi Configuration has also been given, in order to ease the process of you connecting to the Router
  – SSID and Password Creation have been explained.
  – Few high end routers have two bands to work on – 2.4 GHz and 5 GHz – This router has both the Bands.
  – 2.4 GHz band provides higher range, but lesser speed.
  – 5 GHz band provides lower range, but higher speed.
  – Changing Different Wi-Fi Channels – Helps in reducing Slow Speed Issues.
STEP 2: Logging into the Router

- Open a browser and enter the below IP Address in the Address Bar. A login page appears. The usual usernames and passwords are given in the table below.

<table>
<thead>
<tr>
<th>Router Name</th>
<th>IP Address</th>
<th>Username</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco or Linksys</td>
<td>192.168.1.1</td>
<td>admin</td>
<td>admin</td>
</tr>
<tr>
<td>D-Link</td>
<td>192.168.0.1</td>
<td>admin</td>
<td>(blank)</td>
</tr>
<tr>
<td>TP-Link</td>
<td>192.168.0.1</td>
<td>admin</td>
<td>admin</td>
</tr>
<tr>
<td>Net gear</td>
<td>192.168.1.1</td>
<td>admin</td>
<td>password</td>
</tr>
<tr>
<td>Belkin</td>
<td>192.168.2.1</td>
<td>Click on Login in Home</td>
<td>(blank)</td>
</tr>
<tr>
<td>Tenda</td>
<td>192.168.0.1</td>
<td>admin</td>
<td>admin</td>
</tr>
<tr>
<td>i-Ball Baton</td>
<td>192.168.1.1</td>
<td>admin</td>
<td>admin</td>
</tr>
<tr>
<td>Digisol</td>
<td>192.168.2.1</td>
<td>admin</td>
<td>1234 or admin</td>
</tr>
<tr>
<td>Asus</td>
<td>192.168.1.1</td>
<td>admin</td>
<td>admin</td>
</tr>
</tbody>
</table>
If all the above credentials do not work, please check the back of the router where the username and password will be mentioned.
STEP 2.1: Logging into the Router

The username is “Admin” and no password (blank)
STEP 2.2: Home Page
STEP 2.3: Click’n’Connect

Connect the ISP’s Ethernet cable to the WAN (Internet) port of the device. Please make sure that the WAN light is lit before clicking Next.
STEP 2.4: Under Click n connect > Provider Manually > Next
STEP 3.1: Internet Connectivity – PPoE Configuration

Choose PPoE in the connection type > Next
STEP 3.2: Internet Connectivity – PPPoE Configuration

Home > Click’n’Connect > Manual > PPPoE > Enter the username provided by ACT > password provided by ACT > Next

Enter Connection Name: Any name can be given here
Enter ACT provided login ID and password and then click Next.
STEP 3.3: Internet Connectivity – PPPoE Configuration

The PPPoE session is created > Apply
STEP 4: Wi-Fi Connectivity – Router SSID/Password Configuration

Under wireless network mode choose > Access point > Next
STEP 4: Wi-Fi Connectivity – Router SSID/Password Configuration

Provide any name to the router under SSID > Next > under security authentication > select Protected > enter any 8 character password under network key > Next

![Router Configuration Screen]

- Enter the name of the access point (SSID)
- Select Protected for security authentication
- Enter a password for network key
STEP 4: Wi-Fi Connectivity – Router
SSID/Password Configuration

Under Wi-Fi > Basic settings > 2.4 GHz/5 GHz > Enter the required SSID > the required channel as per the premises > Apply
You can choose appropriate channel based on premises. We have a separate slide on deciding Channel Number. Refer this slide: Step 7
STEP 5: Saving Configuration

Save all the settings by going to System > Save
STEP 6 (As and when required): Firmware upgrade

Under System > firmware upgrade > Select the update file from the PC which has been downloaded from the router website > Update the router

You can choose to download a Firmware version and then upload it offline or choose to download directly from internet itself.
STEP 7: Channel Change (As and when required)

- Channels are the mediums through which your router transmits signals to other devices.
- There are several channels that one can choose from, based on the Frequency at which your router works (Bands – 2.4 GHz or 5GHz) and the premises.
  - Step A: Download any Wi-Fi Analyzer software from Internet (It is a Freeware).
  - Step B: Choose to view different channels. We have provided an Example for better understanding.
  - Step C: Channel numbers for 2.4 GHz will be in the range of 1 to 14, whereas for 5 GHz band will be > 36.
  - Step D: Wi-Fi analyzer will show which channel is being utilized most and which one the least. Refer the example in the next slide. Choosing a channel with least utilization will give maximum advantage.

More Stars implies Lesser Utilization of Channel
Changes to be made after Configuration

• If the Wi-Fi password is changed, we need to update the password in all the devices to get connected to the Internet.

• Changes in PC

  – **Windows 7**: Click on Windows button ¦ click on Control Panel ¦ click on Network and Internet ¦ click on Network and Sharing Centre.

  – In the Tasks pane (Left side of screen), click Manage wireless networks

  – Right-click the router name ¦ click Remove network ¦ click on OK.

  – Click on Network icon (right bottom corner next to system Time), click on Router name and enter the new Wi-Fi password and Connect.
• Changes in PC
  – **Win 8, 8.1**: Click on Network icon (right bottom corner next to system Time), Right click on Router name click on “Forget this network”. Again click on Router name, enter the new Wi-Fi password and Connect.
  – **Win 10**: Click on Network icon (right bottom corner next to system Time), click on Network settings under Wi-Fi click on Manage known Networks Click on your Router name and Click on Forget, and again click on Network icon click on Router name enter the new Wi-Fi password and Connect

• Mobile or Tablet
  – Go to ‘Settings’ in Mobile, turn on Wi-Fi and long press on your Router name and press “Forget network”. Again press the router name. You will be prompted to enter the Wi-Fi password. Enter the Password and Connect.