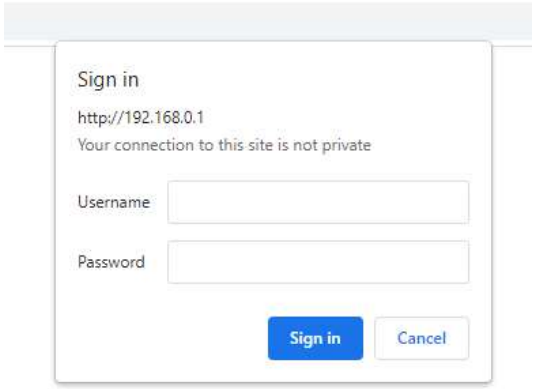
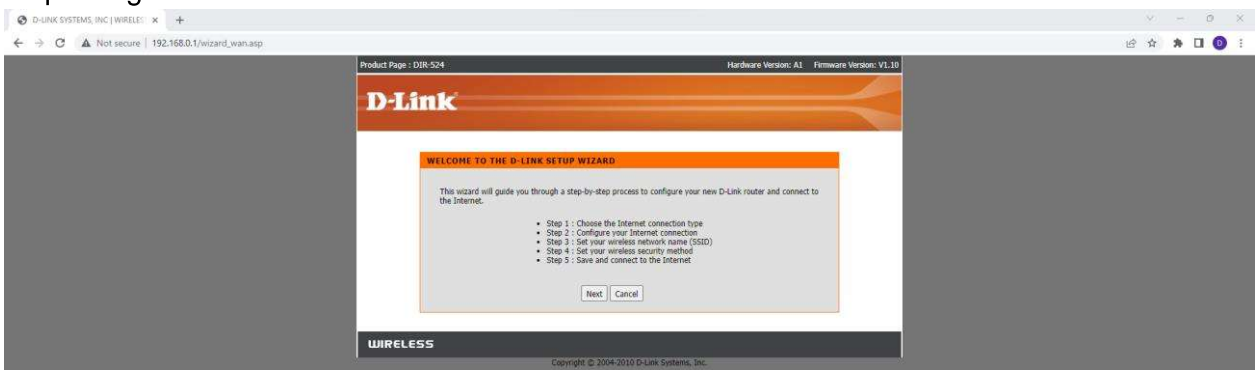
Experiment 6: Implement Wi-Fi security (WPA2, IP based, MAC Based)

Step1: Switch On the D-Link Router.
Step2: Open a browser and search for dlinkrouter.local
Run IP address of router in any of the browser

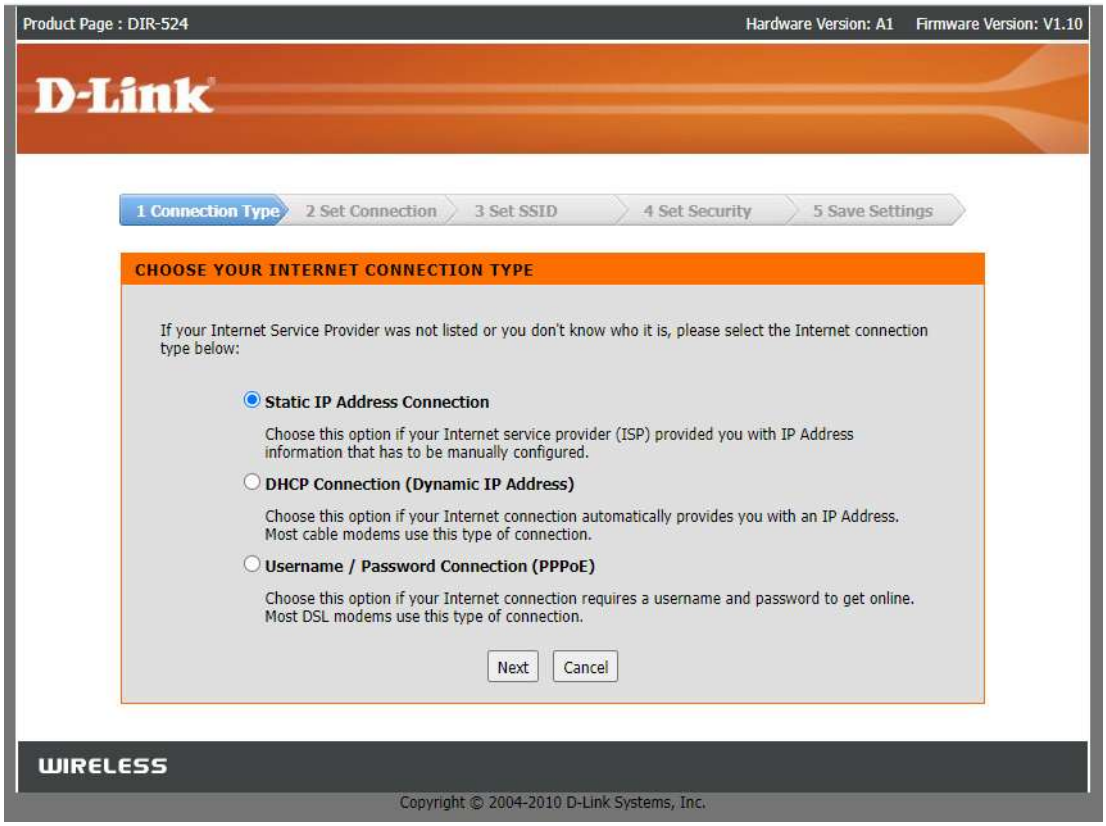
Step3: click Wizard



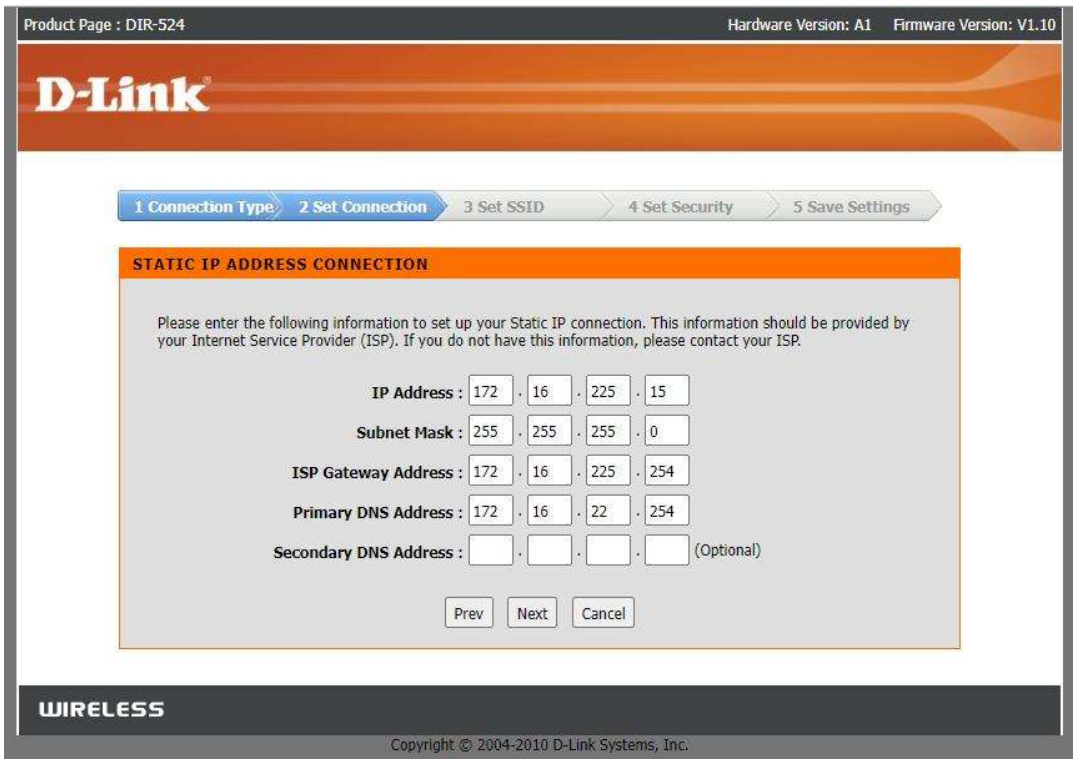
Step4: Login with the credentials which are available on the router



Step 5: click Next



Click Next and Enter IP address provided by service provider

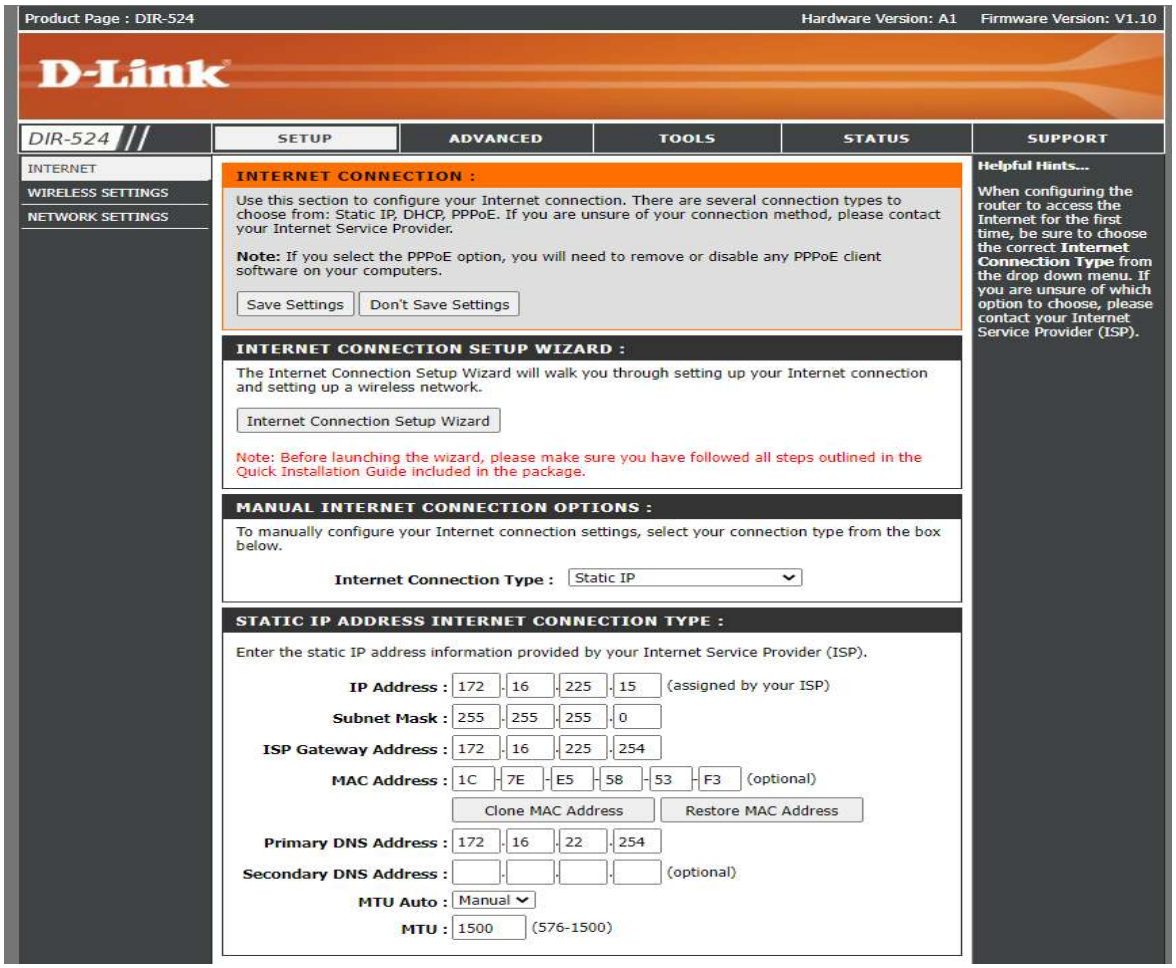


Click Next and enter the name of the wireless network

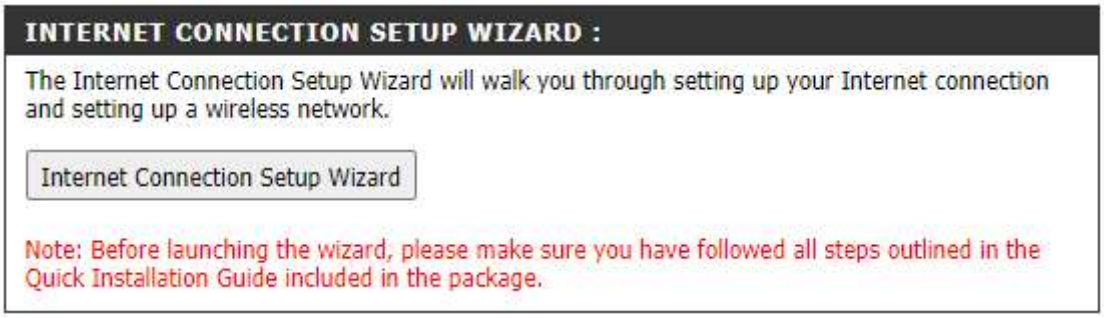
Click Next and set the security mode

Step 6: click Next → save → continue

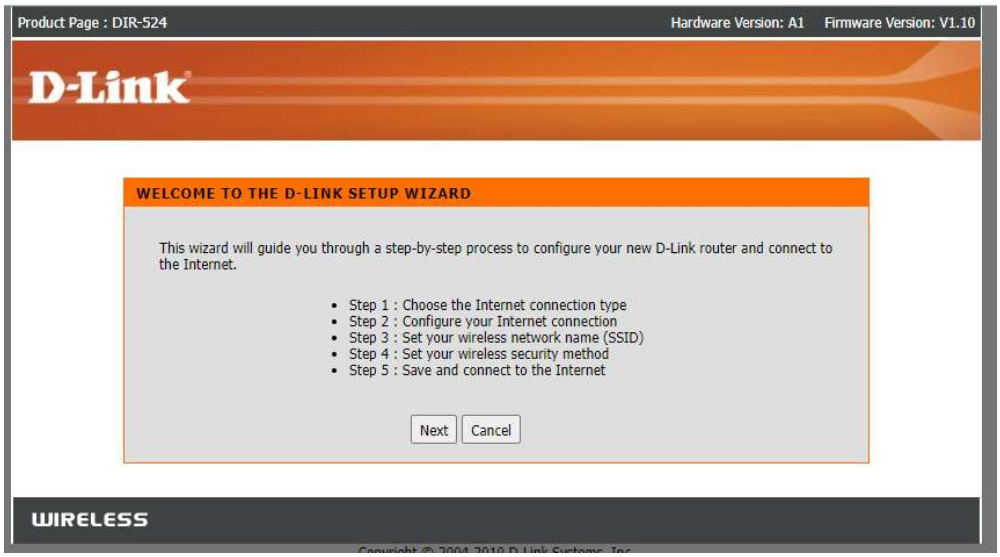
Step 7: click continue



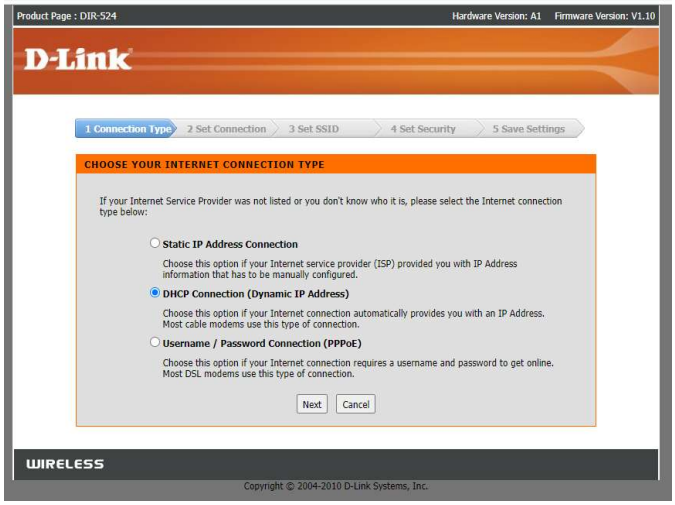
Step 8: In manual internet connection setup wizard



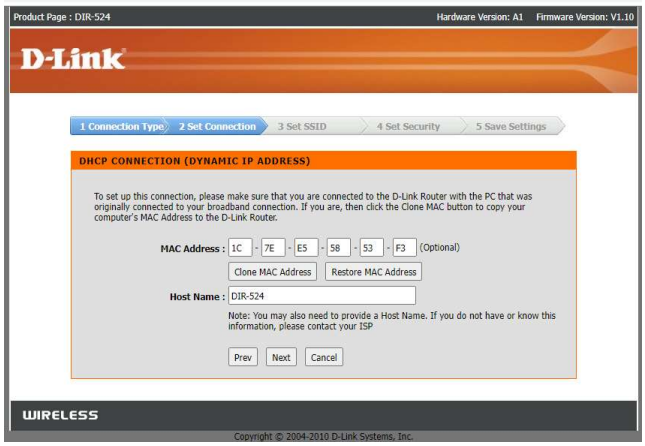
Step 9:



Click next

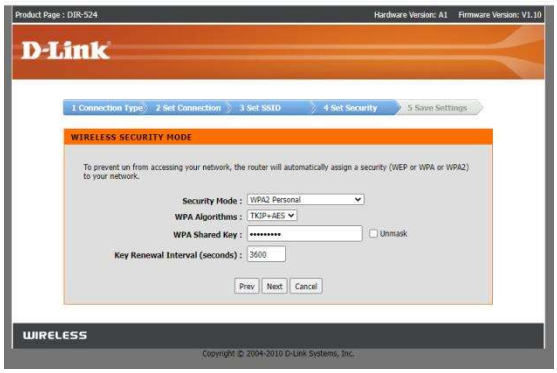


Click Next



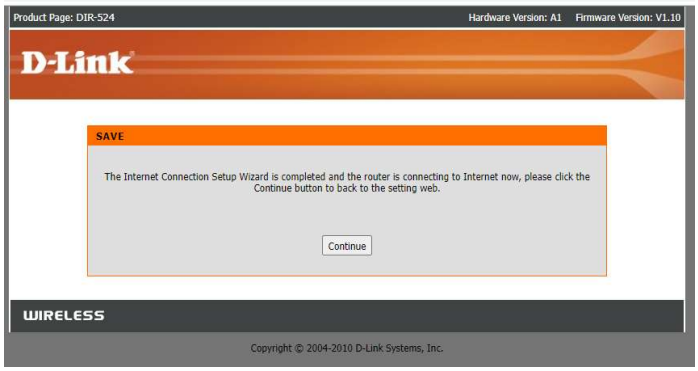
Click Next

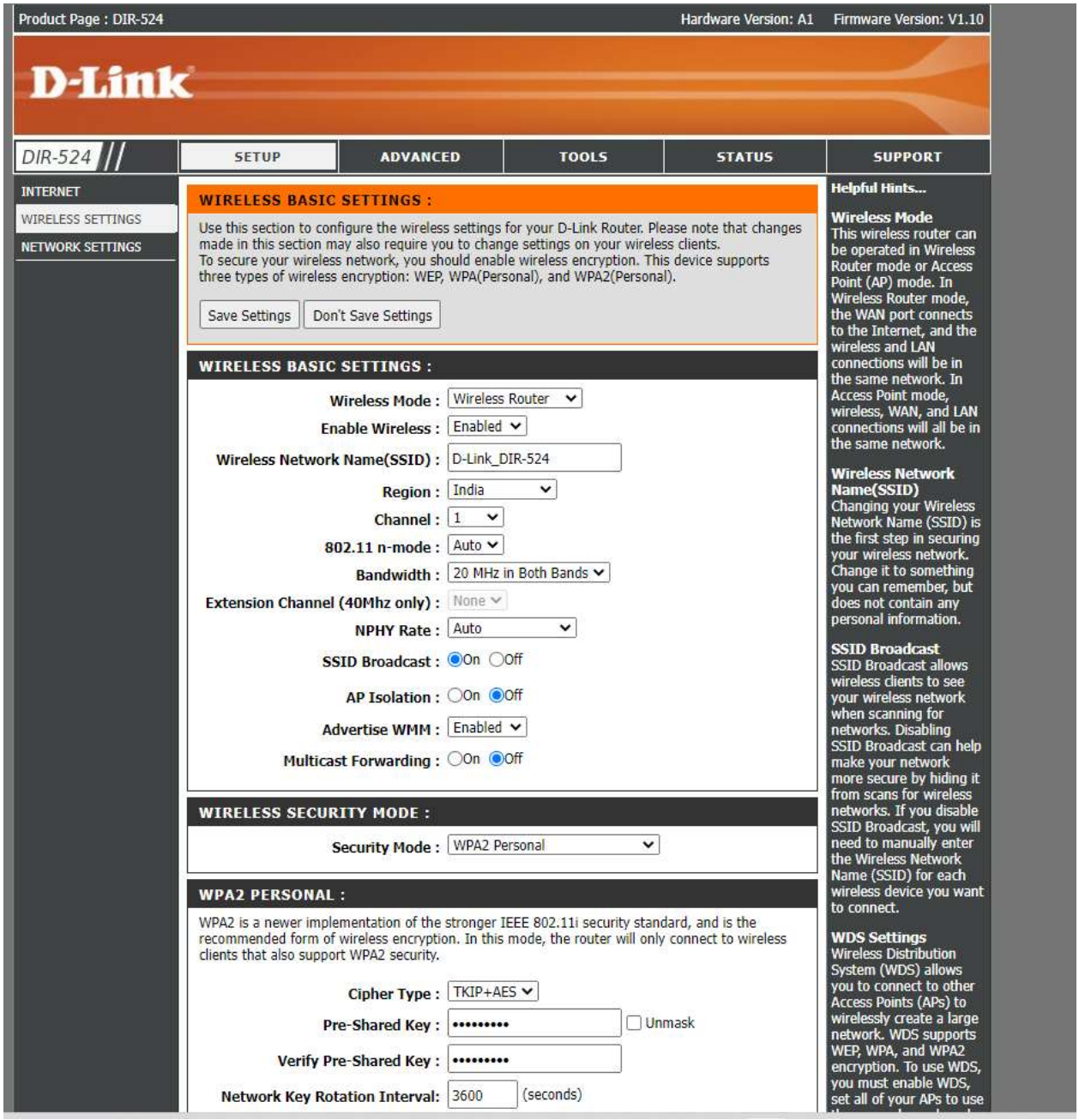
Click Next

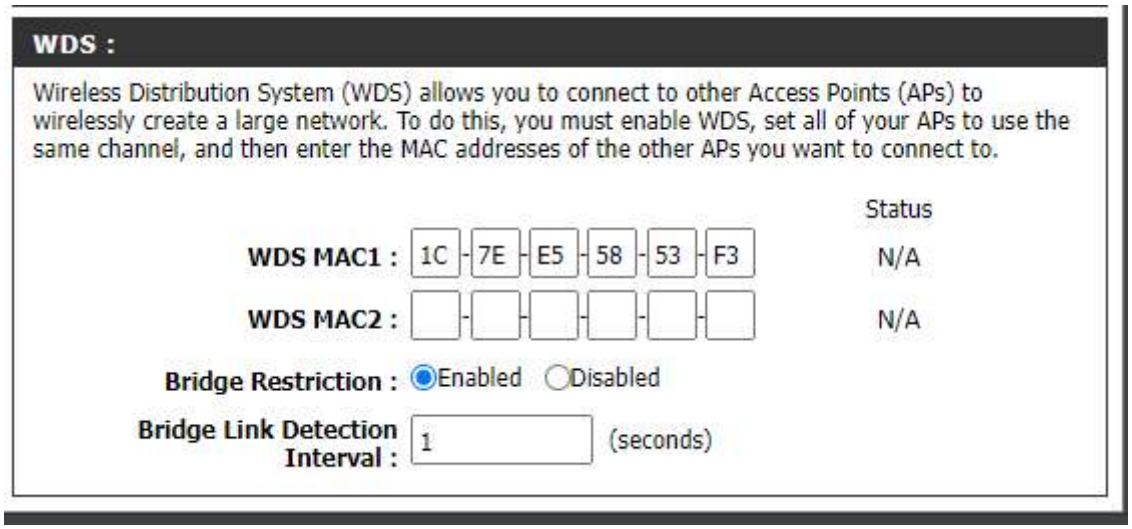


Click Next

Click Continue


Product Page: DIR-524
Hardware Version: A1
Firmware Version: V1.10
D-Link
SAVE
The Internet Connection Setup Wizard is completed and the router is connecting to Internet now, please click the Continue button to back to the setting web.
Continue
WIRELESS
Copyright © 2004-2010 D-Link Systems, Inc.


Product Page : DIR-524
Hardware Version: A1
Firmware Version: V1.10
D-Link
DIR-524
SETUP
ADVANCED
TOOLS
STATUS
SUPPORT
INTERNET
WIRELESS SETTINGS
NETWORK SETTINGS
WIRELESS BASIC SETTINGS :
Use this section to configure the wireless settings for your D-Link Router. Please note that changes made in this section may also require you to change settings on your wireless clients.
To secure your wireless network, you should enable wireless encryption. This device supports three types of wireless encryption: WEP, WPA(Personal), and WPA2(Personal).
Save Settings
Don't Save Settings
WIRELESS BASIC SETTINGS :
Wireless Mode : Wireless Router
Enable Wireless : Enabled
Wireless Network Name(SSID) : D-Link_DIR-524
Region : India
Channel : 1
802.11 n-mode : Auto
Bandwidth : 20 MHz in Both Bands
Extension Channel (40Mhz only) : None
NPHY Rate : Auto
SSID Broadcast : On Off
AP Isolation : On Off
Advertise WMM : Enabled
Multicast Forwarding : On Off
WIRELESS SECURITY MODE :
Security Mode : WPA2 Personal
WPA2 PERSONAL :
WPA2 is a newer implementation of the stronger IEEE 802.11i security standard, and is the recommended form of wireless encryption. In this mode, the router will only connect to wireless clients that also support WPA2 security.
Cipher Type : TKIP+AES
Pre-Shared Key : ••••••••
Unmask
Verify Pre-Shared Key : ••••••••
Network Key Rotation Interval: 3600 (seconds)
Helpful Hints...
Wireless Mode
This wireless router can be operated in Wireless Router mode or Access Point (AP) mode. In Wireless Router mode, the WAN port connects to the Internet, and the wireless and LAN connections will be in the same network. In Access Point mode, wireless, WAN, and LAN connections will all be in the same network.
Wireless Network Name(SSID)
Changing your Wireless Network Name (SSID) is the first step in securing your wireless network. Change it to something you can remember, but does not contain any personal information.
SSID Broadcast
SSID Broadcast allows wireless clients to see your wireless network when scanning for networks. Disabling SSID Broadcast can help make your network more secure by hiding it from scans for wireless networks. If you disable SSID Broadcast, you will need to manually enter the Wireless Network Name (SSID) for each wireless device you want to connect.
WDS Settings
Wireless Distribution System (WDS) allows you to connect to other Access Points (APs) to wirelessly create a large network. WDS supports WEP, WPA, and WPA2 encryption. To use WDS, you must enable WDS, set all of your APs to use


WDS :
Wireless Distribution System (WDS) allows you to connect to other Access Points (APs) to wirelessly create a large network. To do this, you must enable WDS, set all of your APs to use the same channel, and then enter the MAC addresses of the other APs you want to connect to.
Status
WDS MAC1 : 1C 7E E5 58 53 F3
N/A
WDS MAC2 :
N/A
Bridge Restriction : Enabled Disabled
Bridge Link Detection Interval : 1 (seconds)