

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

### Aim:

To implement Wi-Fi security (WPA2, IP based, MAC Based)

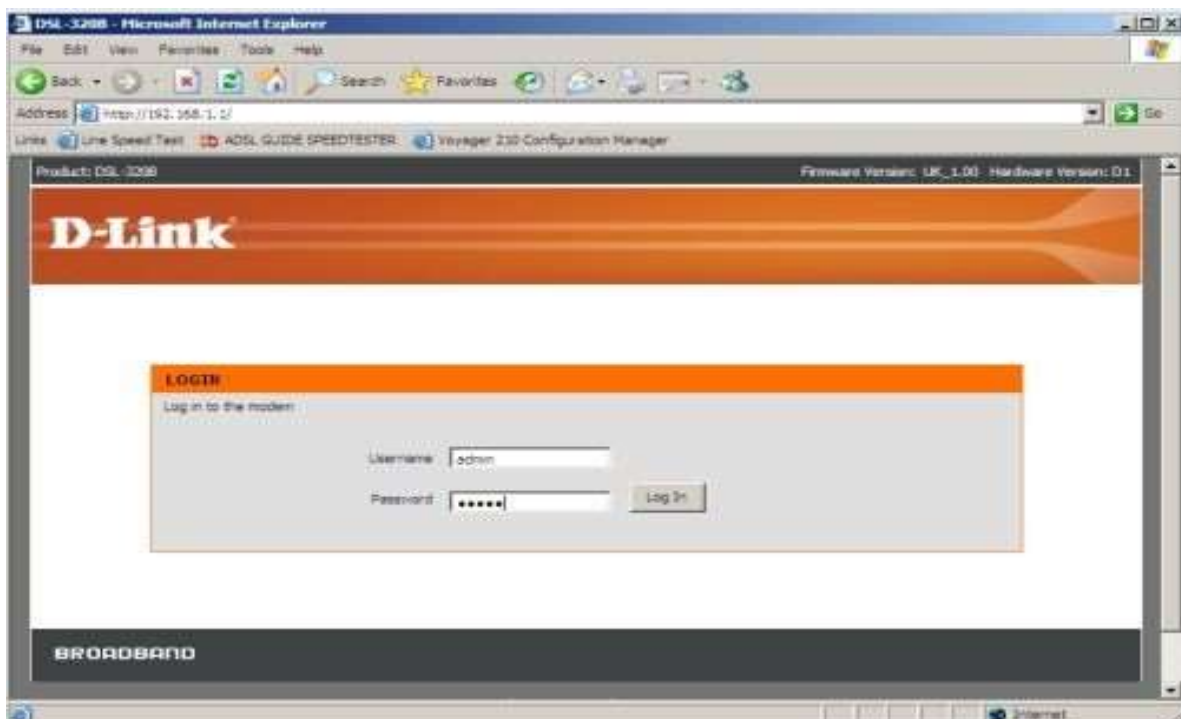
### Procedure:

**Step1:** Switch On the D-Link Router.

**Step2:** Open a browser and search for dlinkrouter.local



### Login



Setup security mode as WPA2

Product Page: DSL-2750U Firmware Version: DL\_1.02

**D-Link**

DSL-2750U // SETUP ADVANCED MANAGEMENT STATUS HELP

Wizard  
Internet Setup  
Wireless  
Local Network  
LAN IPv6  
Time and Date  
Logout

**WIRELESS SECURITY**  
In this page, you can configure the wireless security settings for the router. Please note that changes made in this page must also be duplicated to your wireless clients and PC.

**WIRELESS SECURITY MODE**

To protect your privacy, you can configure the wireless security features. The device supports 3 wireless security modes including: WEP, WPA, and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provide higher levels of security.

Security Mode : WPA2 only  
WPA Encryption : TKIP+AES

**WPA**

Select **WPA** or **WPA2** to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. The strongest cipher that the client supports is used. For the highest security, select **WPA2 Only**. This mode uses AES (CCMP) cipher and legacy stations are not allowed to access with WPA security. For maximum compatibility, select **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance, select **WPA2 Only** (which uses AES cipher).

WPA-PSK does not require an authentication server. The WPA option requires an external RADIUS server.

WPA Mode : WPA2-PSK  
Group Key Update Interval : 0

Go to advanced tab

Product Page: DSL-2750U Site Map Firmware Version: DL\_1.01

**D-Link**

DSL-2750U // SETUP ADVANCED MAINTENANCE STATUS HELP

Wireless Settings  
Port Forwarding  
Port Triggering  
DMZ  
Parental Control  
Filtering Options  
DNS  
Dynamic DNS  
IPv6 Tunnel  
Storage Service  
Multicast  
Network Tools  
Routing  
Scheduling  
Logout  
**WIRELESS**

**ADVANCED WIRELESS**

**WIRELESS SETTINGS -- WIRELESS BASICS**  
Configure your wireless basic settings.  
Wireless Basics

**ADVANCED WIRELESS -- ADVANCED SETTINGS**  
Allows you to configure advanced features of the wireless LAN interface.  
Advanced Settings

**ADVANCED WIRELESS -- MAC FILTERING**  
Allows you to configure wireless firewall by denying or allowing designated MAC addresses.  
MAC Filtering

**WIRELESS -- SECURITY SETTINGS**  
Configure security features of the wireless LAN interface.  
Security Settings

Go to wireless tab

**WIRELESS**

Use this section to configure the wireless settings for your D-Link Router. Please note that changes made on this section may also need to be duplicated on your Wireless Client.

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

**Enable :** ☐

**Current PIN :** 00000000

**Wi-Fi Protected Status :** Disabled / Configured

Uncheck the enable WI-Fi Protected Setup then Save

**WIRELESS NETWORK SETTINGS**

**Enable Wireless :** ☒ Always

Go to wireless Repeater

Product Page: DIR-600M

**D-Link**

DIR-600M

Setup

**Wireless**

Advanced

Maintenance

Wireless Basics

WPS

Advanced Wireless

**Wireless Repeater**

**Wireless Basics**

This page is used to configure the parameters for wireless LAN clients which may connect to your may change wireless encryption settings as well as wireless network parameters.

**Wireless Network**

**Enable SSID Broadcast:** ☒

**Enable Wireless Isolation:** ☐

**Name(SSID) :** D-Link\_DIR-600M

**Mode :** 802.11b/g/n

**Channel :** 11

**Current Channel :** 11

Goto status tab

Product Page: DIR-601 Hardware Version: A1 Firmware Version : 1.00NA

**D-Link**

DIR-601 // SETUP ADVANCED TOOLS **STATUS** SUPPORT

**DEVICE INFO**

LOGS

STATISTICS

INTERNET SESSIONS

ROUTING TABLE

WIRELESS

IPv6

**DEVICE INFORMATION**

All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.

**GENERAL**

Time : Friday, May 01, 2009 12:53:13 AM

Firmware Version : 1.00NA , Mon, 05 Oct 2009

**WAN**

Connection Type : DHCP Client

Cable Status : Connected

Network Status : Connected

Connection Up Time : 4 Days, 22:41:18

MAC Address : 00:24:01:7a:58:d6

IP Address : 172.16.100.189

Subnet Mask : 255.255.255.0

Default Gateway : 172.16.100.1

Primary DNS Server : 4.2.2.2

Secondary DNS Server : 4.2.2.3

Advanced DNS : Disabled

**Helpful Hints...**

All of your WAN and LAN connection details are displayed here.

[More...](#)

**Result:**

Thus the implementation of Wi-Fi security was completed successfully.