

नाम Name : _____	
अनुक्रमांक Roll No : _____	
पाठ्यक्रम Course : _____	प्राप्त अंक Marks Awarded
दिनांक Date : _____	अनुदेशक का अध्याक्षर Instructor Initial

Objective: CONFIGURATION OF ADSL Wi-Fi MODEM

Introduction:

ADSL Front View



General information:

1. POWER- A steady green light indicates the unit is powered on. When the device is powered off it remains dark. Lights steady green during power on self-test (POST) means the power connection works properly.

2. LAN- A solid green light indicates a valid link on startup. This light will blink when there is activity currently passing through the Ethernet port.

3. WLAN - A steady green light indicates a wireless connection. A blinking green light indicates activity on the WLAN interface.

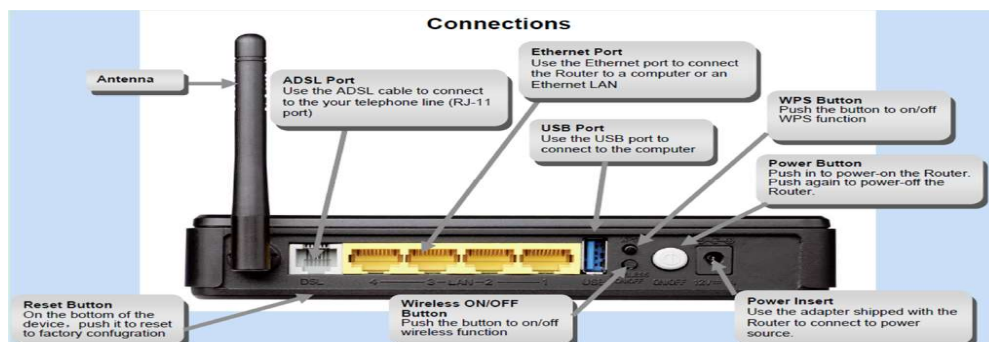
4. WPS(Wi-Fi Protected service) - A blinking green light indicates the device has connected the wireless network card, A blinking green light indicates activity on WPS.

5.USB - A steady green light indicates a valid link on startup. This light will blink when there is activity currently passing through the USB port.

6.DSL-A steady green light indicates a valid ADSL connection. This will light after the ADSL negotiation process has been settled. A blinking green light indicates that ADLS is attempting to sync.

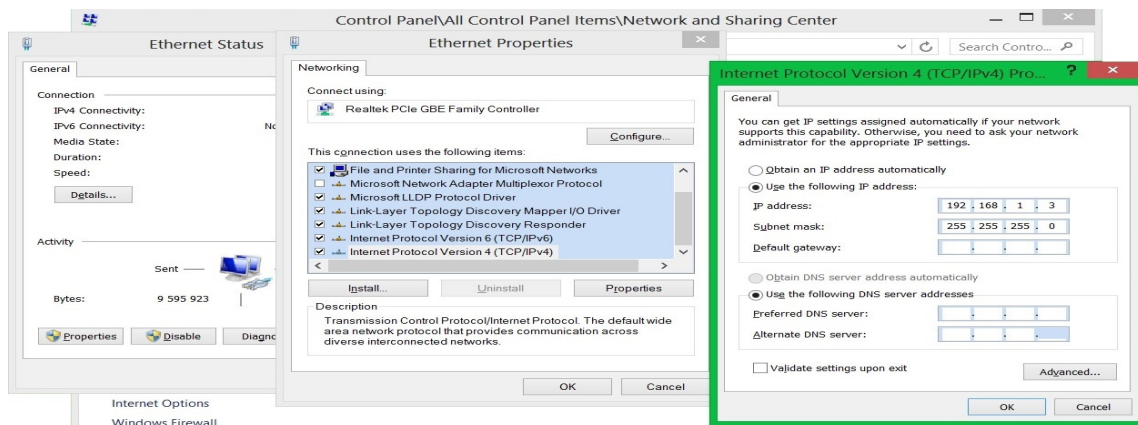
7.Internet -A steady green light indicates a valid internet connection.

ADSL REAR VIEW:



1. **ADSL Port** - Use the ADSL cable to connect to the your telephone line (RJ-11 port)
2. **Ethernet Port** -Use the Ethernet port to connect the Router to a computer or an Ethernet LAN.
3. **USB Port**-Use the USB port to connect to the computer
4. **Wireless ON/OFF Button**-Push the button to on/off wireless function
5. **WPS Button** - Push the button to on/off WPS function .
6. **Power Button**-Push in to power-on the Router. Push again to power-off the Router.
7. **Power Insert**-Use the adapter shipped with the Router to connect to power source.
8. **Antenna**- Use for wireless connectivity.
9. **Reset Button** - At the bottom of the device, push it to reset to factory configuration.

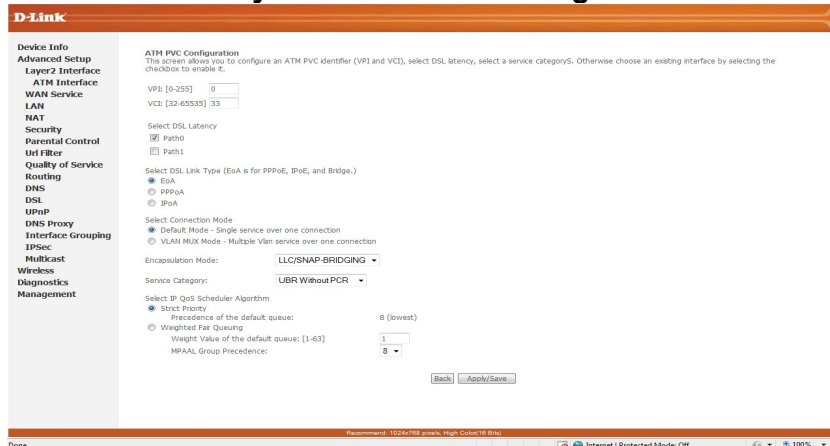
Configuration: To access the ADSL device, connect your PC to ADSL via LAN cable and Assign IP address **192.168.1.10** & subnet **255.255.255.0** to your PC. The default ADSL IP address is 192.168.1.1



Open Web browser and type **192.168.1.1** to access D-link CPEs (Customer premises equipment) Type Username & Password as **admin/admin**.

Click on **Advanced setup** in main menu & click on **Layer2 Interface** and click - **Add**, in the next screen do the following:

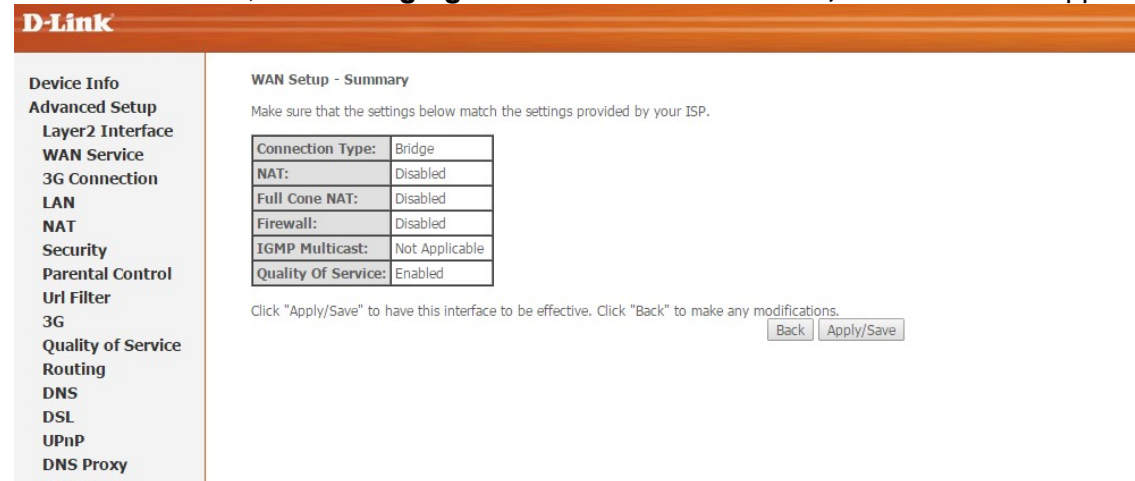
Set **VPI (Virtual Path Identifier)** value **0** and **VCI (Virtual Channel Identifier)** value **33**, select **DSL latency- Path 0**. Other settings are default and click- **Apply/Save**.



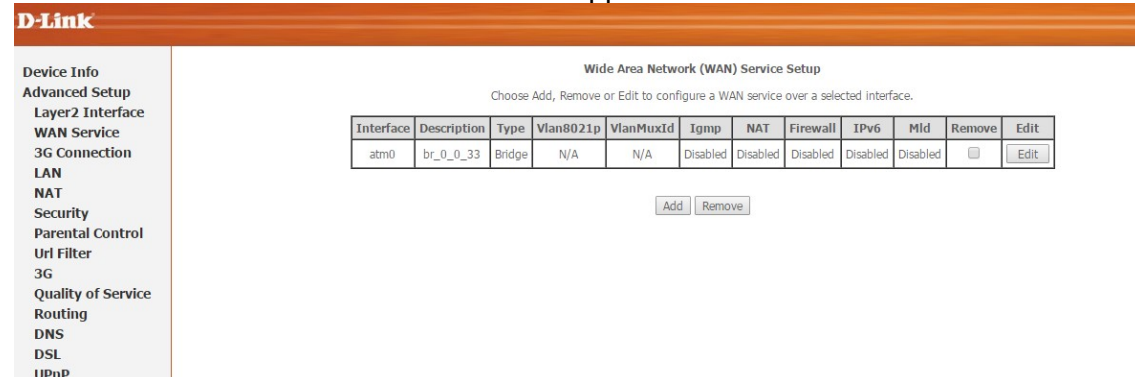
Click **WAN Services** and then press **ADD**



In the next screen, select atm 0/(0_0_33) which is default selected & click on **NEXT**
in the next screen, Click **Bridging** radio button and then **Next**, this screen will appear



after **APPLY/SAVE** the below screen will appear



Click on **LAN** in main menu and Select **DISABLE DHCP Server** radio button and then click-**Apply/Save**

For Enabling Wi-Fi on the device, click on **Wireless** in the main menu and Check the box- **Enable Wireless**, enter desired SSID name then click- **Apply/Save**.

Now select Security in the main menu, in the following screen do not enable WPS, keep it disabled only. Select Network Authentication as WPA personal. Give WPA passphrase 1234567890 & click on "click here to display" (blue color text) to see the password.

Click on Apply/Save

D-Link

Device Info
Advanced Setup
Wireless
Basic
Security
MAC Filter
Wireless Bridge
Advanced
Station Info
Diagnostics
Management

Wireless - Basic
 This page allows you to configure basic features of the wireless LAN interface. You can enable or disable the wireless LAN interface, network name (also known as SSID) and restrict the channel set based on country requirements. Click "Apply/Save" to configure the basic wireless options.

☒ Enable Wireless
☐ Hide Access Point
☐ Clients Isolation
☐ SSID Isolation
☐ Enable Wireless Multicast Forwarding (WMF)

SSID:
 BSSID: 34:08:04:EE:4D:F2
 Country:
 Max Clients:

Wireless - Guest/Virtual Access Points:

Enabled	SSID	Hidden	Isolate Clients	Enable WMF	Max Clients	BSSID
☐	DLVMO_Guest1	☐	☐	☐	16	N/A
☐	DLVMO_Guest2	☐	☐	☐	16	N/A
☐	DLVMO_Guest3	☐	☐	☐	16	N/A

[Apply/Save](#)

D-Link

Device Info
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Wireless - Security
 This page allows you to configure security features of the wireless LAN interface. You may setup configuration manually OR through WPA Protected Setup(WPS).

WPS Setup
☐ Enable WPS

Manual Setup AP
 You can set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply/Save" when done.

Select SSID:
 Network Authentication:
 WPA/WPA2 passphrase:
 WPA Group Policy Interval:
 WPA/WPA2 Encryption:

[Click here to display](#)
[Apply/Save](#)

1234567890

Now Reboot your device, after rebooting your device is ready to use.

➤ Backup of D-link DSL Modem Configuration

Click on Management from main menu and default screen for backup setting will appear.

D-Link

Device Info
Advanced Setup
Wireless
Diagnostics
Management
Settings
Backup
Update
Restore Default
System Log
SNMP Agent
TR-069 Client
Internet Time
Access Control
Update Software
Reboot
Tools

Settings - Backup
 Backup Broadband Router configurations. You may save your router configurations to a file on your PC.

[Backup Settings](#)

Activate Windows
 Go to PC settings to activate Windows.

Download: 1124x788 pixels, 144p Color(18 Bits)

Now click on backup setting

Your file named as “backupsetting.conf” will automatically get downloaded in your PC’s download folder.

Review Questions:

1. How many Ethernet ports available in this ADSL Modem?
2. Draw a block diagram of connectivity.
3. How will you know that the internet is working on this device?
4. Connect a Wi-Fi device with this ADSL Modem and test it for Internet.