

# WIRELESS

# N

## IPTV setup on DSL-2740B/DSL-2750B



*This document will detail how to setup IPTV on the DSL-2740B H/W: F1 and DSL-2750B H/W: B1 models.*

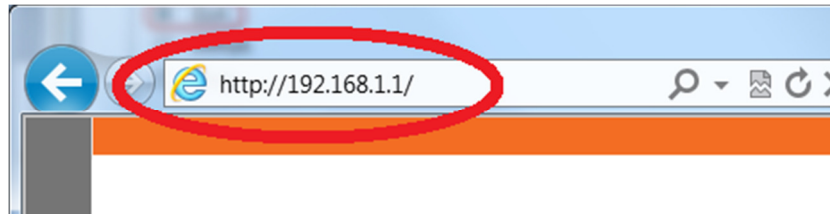
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*IPTV is a multimedia service (television/video/audio....) delivered to you over IP based networks.*

This guide will assume you already have an active connection to the Internet. If you don't have Internet connectivity please run the included Setup CD-ROM or manually via the Web Configuration to first establish a connection to the Internet.

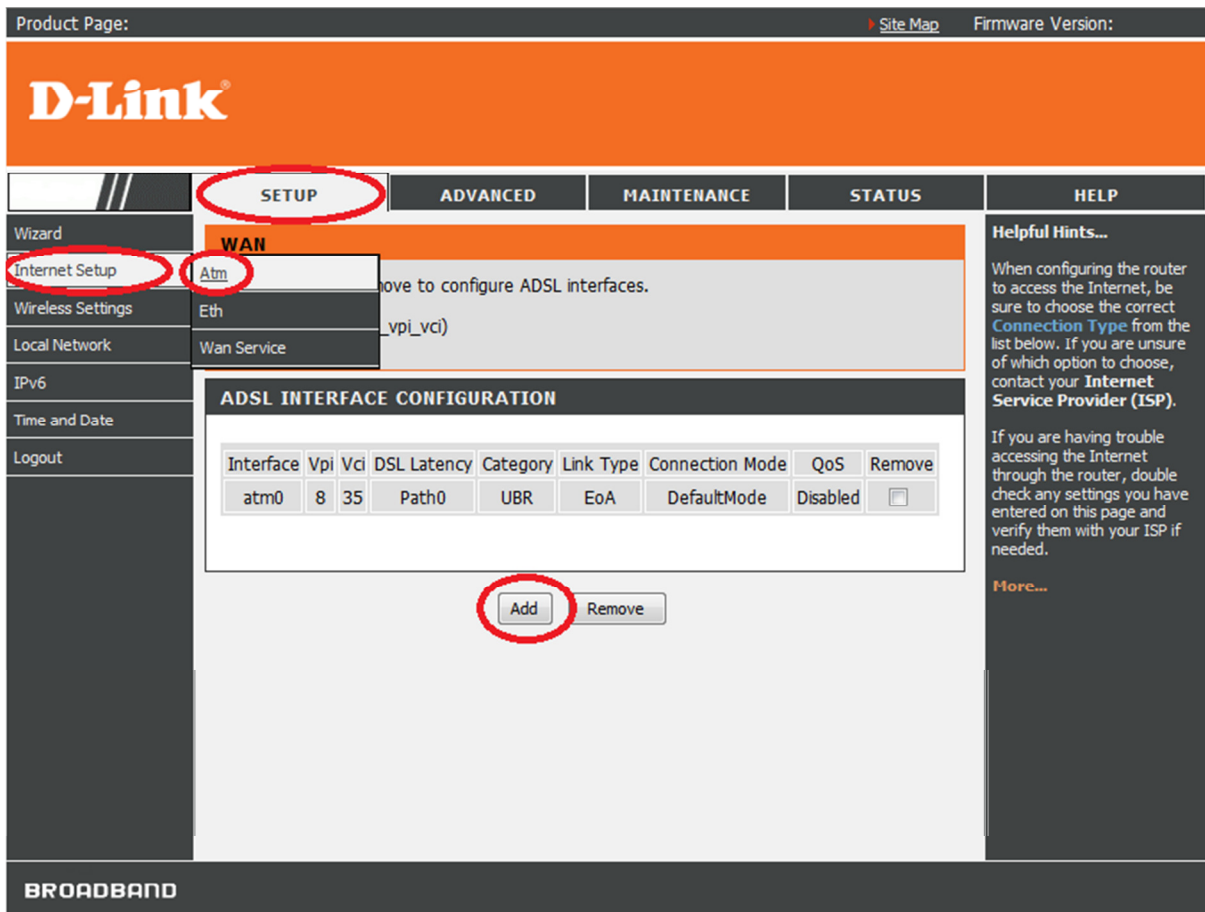
1. Login to the Web Configuration of your DSL-2740B/DSL-2750B. By default the IP address is <http://192.168.1.1>.

An example has been provided below using an Internet Browser:



2. Login with your admin username and password when prompted. *This is not your Internet Service Provider Username and Password.*

3. Click on SETUP > Internet Setup > ATM. Click on the 'Add' button:



4. For the ATM PVC Configuration select the following:

- \* VPI: 0
- \* VCI: 35
- \* Select DSL Link Type: EoA
- \* Select Connection Mode: MSC Mode - Multiple Service over one Connection.

Followed by clicking on the Apply/Save button. Illustration below:

**ATM PVC CONFIGURATION**

VPI: [0-255]

VCI: [32-65535]

**Select DSL Link Type (EoA is for PPPoE, IPoE, and Bridge.)**

EoA

PPPoA

IPoA

Encapsulation Mode: LLC/SNAP-BRIDGING

Service Category: UBR Without PCR

**Select Connection Mode**

Default Mode - Single service over one connection

VLAN MUX Mode - Multiple Vbrs service over one connection

MSC Mode - Multiple Service over one Connection

**Enable Quality Of Service**

Enabling packet level QoS for a PVC improves performance for selected classes of applications. QoS cannot be set for CBR and Realtime VBR. QoS consumes system resources; therefore the number of PVCs will be reduced. Use **Advanced Setup/Quality of Service** to assign priorities for the applications.

Enable Quality Of Service.

5. Your ADSL INTERFACE CONFIGURATION should look similar to the below illustration:

Interface	Vpi	Vci	DSL Latency	Category	Link Type	Connection Mode	QoS	Remove
atm0	8	35	Path0	UBR	EoA	DefaultMode	Disabled	<input type="checkbox"/>
atm1	0	35	Path0	UBR	EoA	MultipleServiceMode	Disabled	<input type="checkbox"/>

6. Click on SETUP > INTERNET SETUP > WAN SERVICE and click on the 'Edit' button:

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**WAN**  
 Remove to configure WAN interfaces.

**WAN SERVICE CONFIGURATION**

Interface	PVC	Description	Protocol	ConnId	Igmp	NAT	Firewall	State	Edit	Action
<input type="checkbox"/>	ppp0	PVC: 8/35	pppoe_atm0	PPPoE	N/A	Enabled	Enabled	Enabled	<a href="#">Edit</a>	<a href="#">U</a>

[Add](#)
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7. Click the Next button:

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**WAN**  
 Select the type of network protocol and encapsulation mode.

**WAN SERVICE CONFIGURATION**  
 Select WAN service type:

- PPP over Ethernet (PPPoE)
- IP over Ethernet
- Bridging

Enter Service Description:

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**Helpful Hints...**  
 When configuring the router to access the Internet, be sure to choose the correct **Connection Type** from the list below. If you are unsure of which option to choose, contact your **Internet Service Provider (ISP)**.  
 If you are having trouble accessing the Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed.  
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**BROADBAND**

8. Select the option for 'Enable IGMP Multicast' as per below illustration. Click Next button to continue:

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## WAN

PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you.

### PPP USERNAME AND PASSWORD

PPP Username:   
PPP Password:   
PPPoE Service Name:   
Authentication Method:   
MTU:   
MRU:

Enable NAT  
 Enable Fullcone NAT  
 Enable Firewall  
 Dial on demand (with idle timeout timer)

PPP IP extension  
 Use Static IPv4 Address

Enable PPP Debug Mode  
 Bridge PPPoE Frames Between WAN and Local Ports

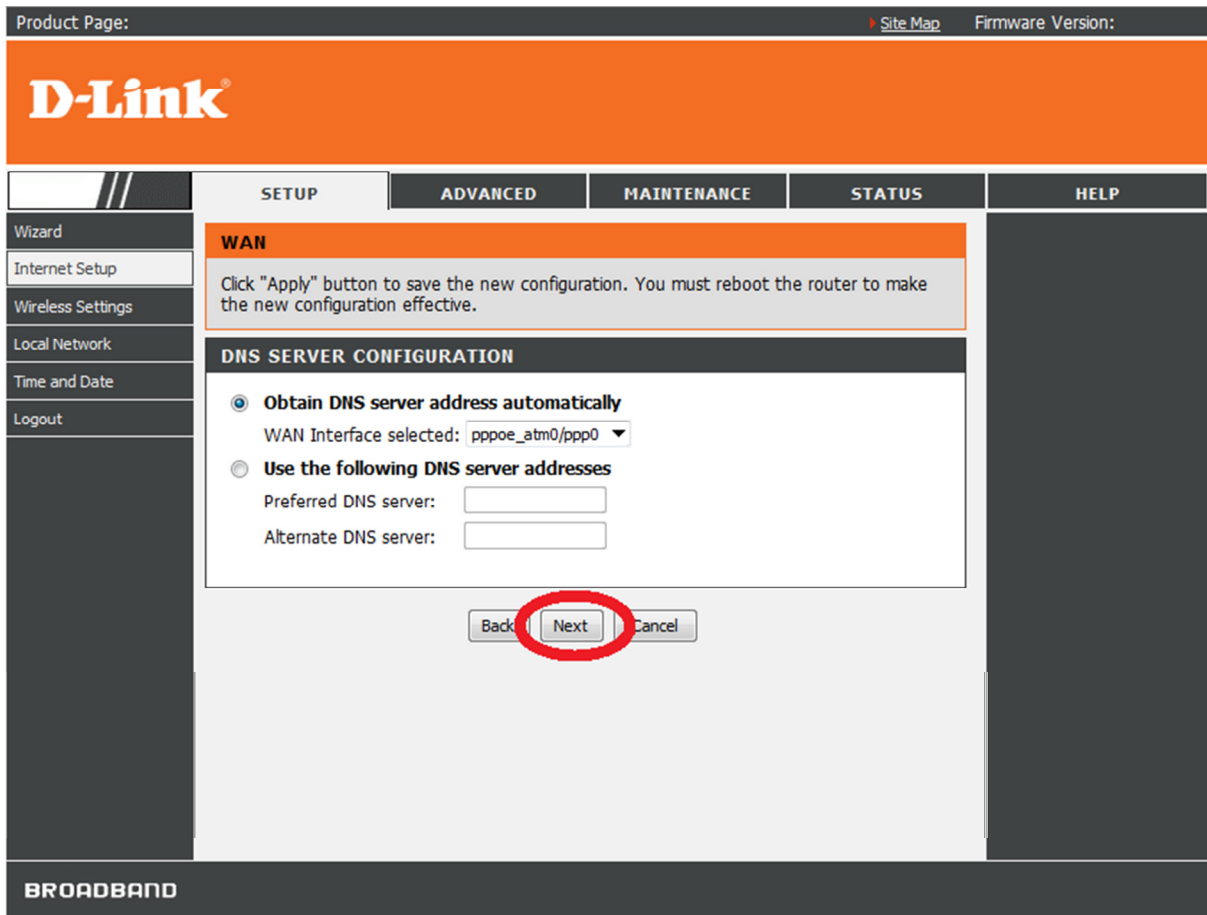
### IGMP Multicast

Enable IGMP Multicast  
 Enable VLAN

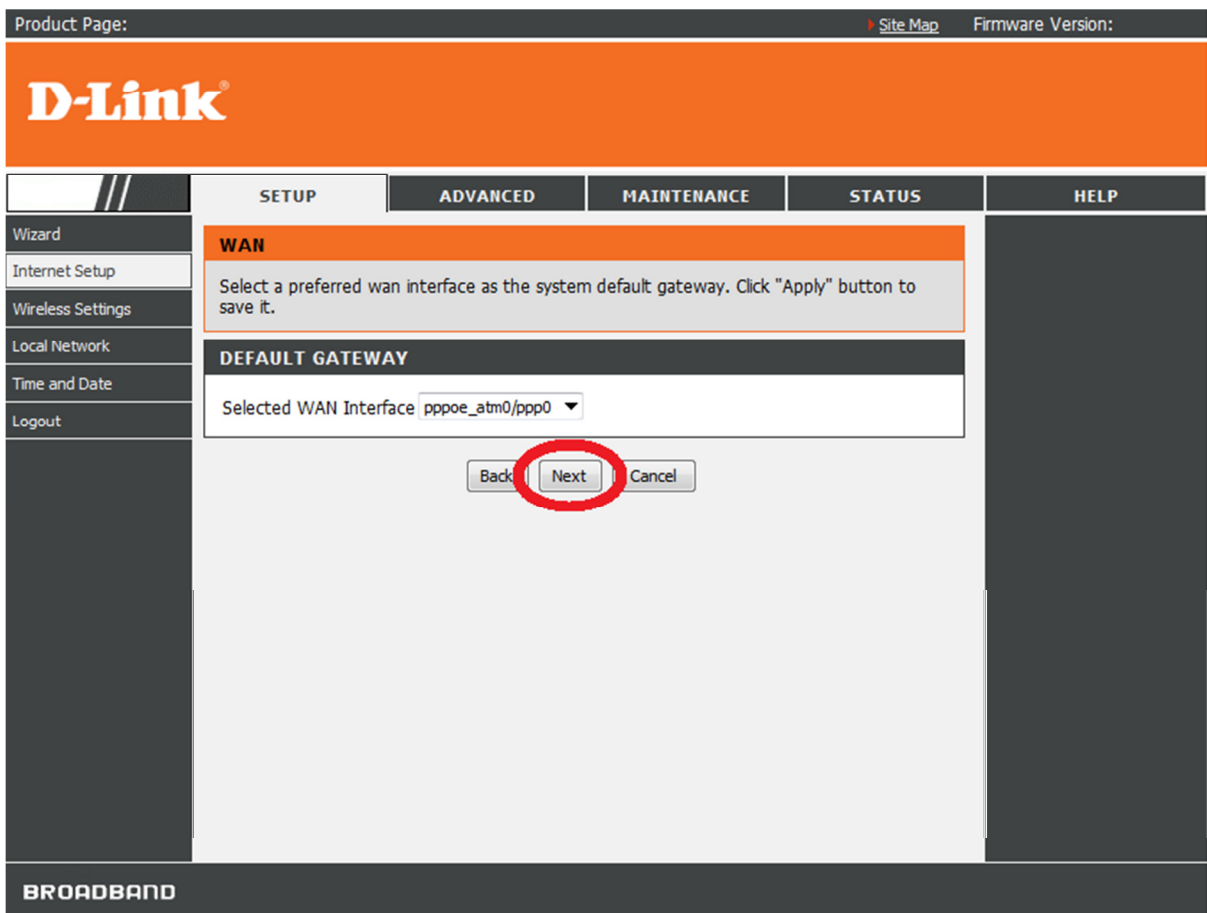
Helpful Hints...  
When configuring the router to access the Internet, be sure to choose the correct **Connection Type** from the list below. If you are unsure of which option to choose, contact your **Internet Service Provider (ISP)**.  
If you are having trouble accessing the Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed.  
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9. Click the Next button:



10. Click the Next button:



11. Click the Apply button:

The screenshot shows the D-Link web interface for WAN configuration. At the top, there is a navigation bar with 'Product Page:', 'Site Map', and 'Firmware Version:'. Below this is the D-Link logo. The main content area is divided into several sections:

- Navigation:** A sidebar on the left contains 'Wizard', 'Internet Setup', 'Wireless Settings', 'Local Network', 'Time and Date', and 'Logout'. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'.
- WAN Section:** A header 'WAN' is followed by instructions: 'Make sure that the settings below match the settings provided by your ISP.' and 'Click "Apply" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.'
- SETUP - SUMMARY Table:**

PORT / VPI / VCI:	0 / 8 / 35
Connection Type:	PPPoE
Description:	pppoe_atm0
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Enabled
- Buttons:** At the bottom of the summary table, there are 'Back' and 'Apply' buttons. The 'Apply' button is circled in red.
- Helpful Hints:** A sidebar on the right contains 'Helpful Hints...' with a note: 'Note: Be sure to restart the router for the new Internet Setting to take effect.' and a 'More...' link.
- Footer:** The bottom of the page features the 'BROADBAND' label.

12. Click on SETUP > Internet Setup > WAN SERVICE. Click on the Add button:

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**WAN**  
 Remove to configure WAN interfaces.

**WAN SERVICE SETUP**

Interface	PVC	Description	Protocol	ConnId	Igmp	NAT	Firewall	State	Edit	Action
<input type="checkbox"/>	ppp0	PVC: 8/35	pppoe_atm0	PPPoE	N/A	Enabled	Enabled	Enabled	Enabled	<a href="#">Edit</a> <a href="#">UP</a>

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13. Click the Next button:

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**WAN**  
 Select a interface for wan service.

**WAN SERVICE INTERFACE CONFIGURATION**  
 Select a layer 2 interface for this service:  
 atm1/(0\_0\_35)

[Back](#)
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**Helpful Hints...**  
 When configuring the router to access the Internet, be sure to choose the correct **Connection Type** from the list below. If you are unsure of which option to choose, contact your **Internet Service Provider (ISP)**.  
 If you are having trouble accessing the Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed.  
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14. Select Bridging option. Click the Next button:

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## WAN

Select the type of network protocol and encapsulation mode.

### WAN SERVICE CONFIGURATION

Select WAN service type:

- PPP over Ethernet (PPPoE)
- IP over Ethernet
- Bridging

Enter Service Description:

#### Helpful Hints...

When configuring the router to access the Internet, be sure to choose the correct **Connection Type** from the list below. If you are unsure of which option to choose, contact your **Internet Service Provider (ISP)**.

If you are having trouble accessing the Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed.

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15. Click the Apply button:

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## WAN

Make sure that the settings below match the settings provided by your ISP.

Click "Apply" to save these settings. Click "Back" to make any modifications.  
NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.

### SETUP - SUMMARY

PORT / VPI / VCI:	0 / 0 / 35
Connection Type:	Bridge
Description:	br_atm1_1
Service Category:	UBR
IP Address:	Not Applicable
Service State:	Enabled
NAT:	Disabled
Full Cone NAT:	Disabled
Firewall:	Disabled
IGMP Multicast:	Not Applicable

Back **Apply**

**BROADBAND**

Helpful Hints...  
Note: Be sure to restart the router for the new Internet Setting to take effect.  
[More...](#)

16. You will now see an entry added with Protocol : Bridge:

### WAN SERVICE SETUP

	Interface	PVC	Description	Protocol	ConnId	Igmp	NAT	Firewall	State	Edit	Action
<input type="checkbox"/>	ppp0	PVC: 8/35	pppoe_atm0	PPPoE	N/A	Enabled	Enabled	Enabled	Enabled	<a href="#">Edit</a>	<input type="button" value="UP"/>
<input type="checkbox"/>	atm1.1	PVC: 0/35	br_atm1_1	<b>Bridge</b>	1	Enabled	Disabled	Disabled	Enabled	<a href="#">Edit</a>	

17. Click on ADVANCED > NETWORK TOOLS > IGMP:

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**IGMP**  
 Transmission of identical content, such as multimedia, from a source to a number of recipients.

**IGMP SETUP**  
 **Enable IGMP Snooping**  
 Standard Mode  
 Blocking Mode

Apply Cancel

**Helpful Hints...**  
 With IGMP Snooping enabled, the device (L2 switch) can make intelligent multicast forwarding (only) toward those hosts, i.e. IPSTBs etc., which request to join (as members of) a specific multicast group, i.e. a IPTV channel etc., within the broadcast domain (same PVC/LAN). As a result, it significantly reduces traffic flooding upon interfaces which are not registered as receivers of specific multicast group.

More...

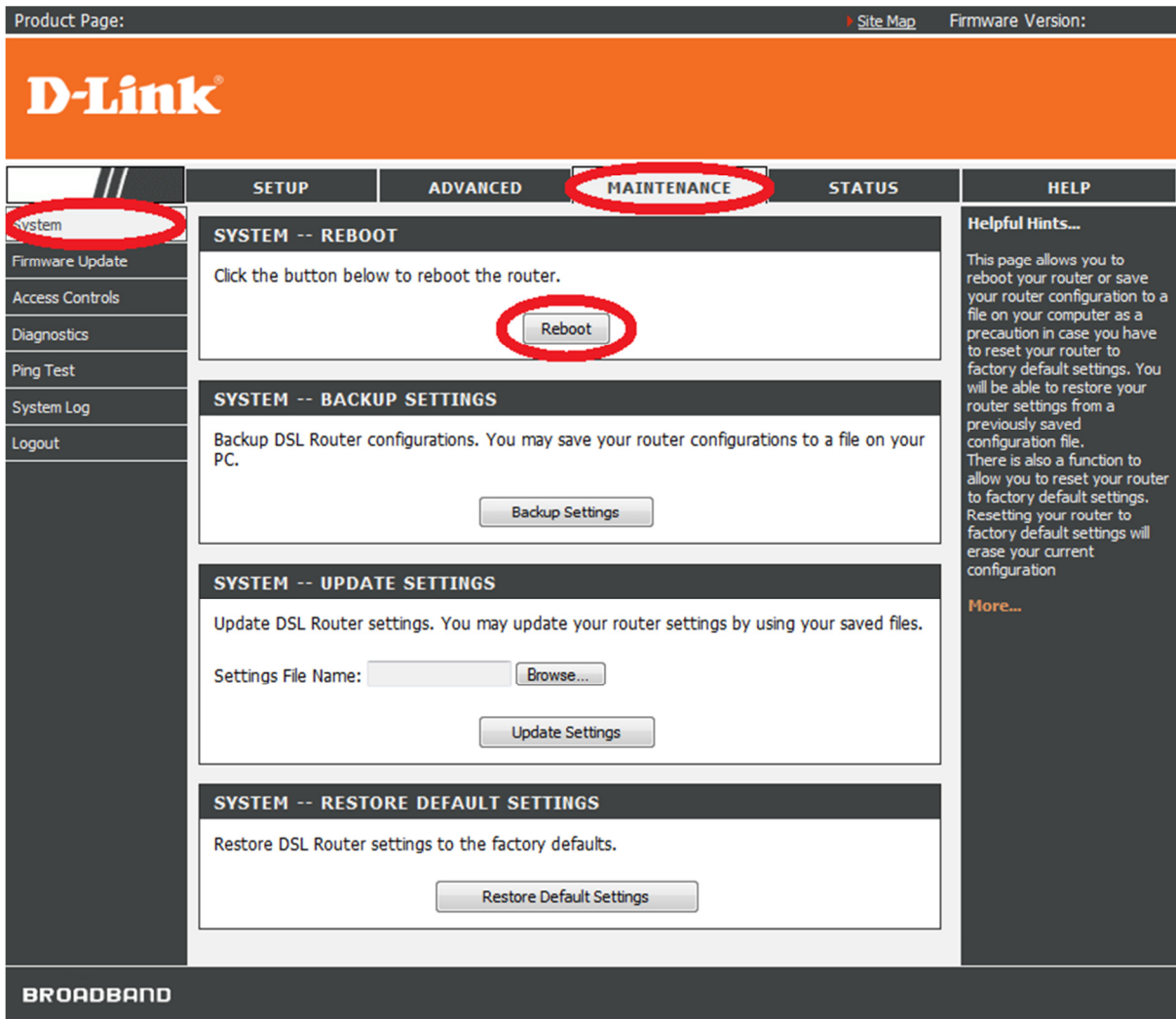
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18. Change the option to Standard Mode. Click on Apply button:

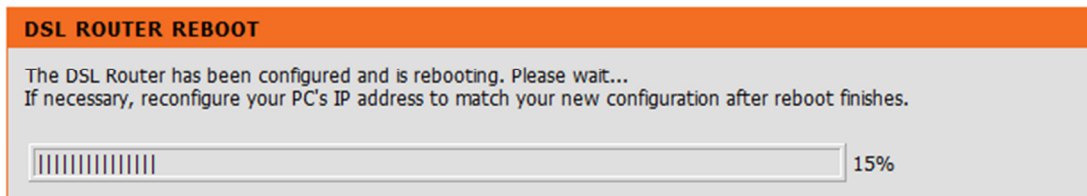
**IGMP SETUP**  
 **Enable IGMP Snooping**  
 Standard Mode  
 Blocking Mode

Apply Cancel

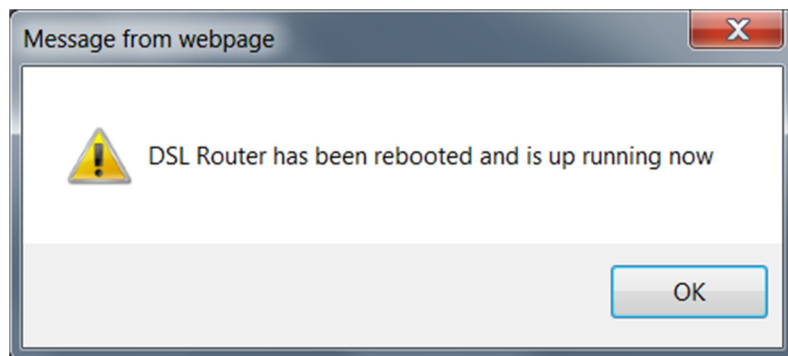
19. Click on MAINTENANCE > SYSTEM. Click on the Reboot button:



20. Patiently wait for the changes to be made and new configuration applied:



21. Click on the OK button to continue. Configuration is now complete.



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