

NetComm[®]
www.netcomm.com.au

 **Dynalink**

IPTV Setup
(RTA1025W Rev1)

IPTV

This guide will take you through the process of configuring a VLAN on your modem / router to work with IPTV.*

1. Navigate to <http://192.168.1.1> in a web browser.
2. Enter admin for both username and password when prompted.
3. Select Advanced > Internet > IGMP Proxy.

The screenshot shows the NetComm Wireless ADSL2+ Router web interface in Internet Explorer. The browser address bar shows <http://192.168.1.1/>. The interface has a navigation menu with options: Quick Start, Status, Advanced, Wireless, and Management. The 'Advanced' menu is selected, and the 'Internet' sub-menu is active, showing 'IGMP Proxy' as the current page. The 'IGMP Proxy Configuration' page contains the following text: "Enabling IGMP proxy function can allow the users on your local network to play the multimedia (video or audio) which sent from the servers on the Internet." Below this text is a table with two columns: 'Internet Connection' and 'IGMP Proxy Enabled'. The 'Internet Connection' column contains the value 'ppp0a_0_100_1'. The 'IGMP Proxy Enabled' column contains a checked checkbox. Below the table are 'Apply' and 'Cancel' buttons. A sidebar on the left lists various configuration options: Local Network, Internet (Connections, DNS Server, IGMP Proxy, DSL), IP Routing, Virtual Server, NAT ALG, Firewall, Quality of Service, and Port Mapping. At the bottom left of the sidebar, the following information is displayed: Firmware: 3.64y, ADSL2+ : A2pB025c.d20h, Wireless : 3.131.35.6. The bottom status bar shows 'Internet | Protected Mode: On' and a zoom level of 100%.

Internet Connection	IGMP Proxy Enabled
ppp0a_0_100_1	<input checked="" type="checkbox"/>

4. Check the IGMP Proxy Enabled field and press Apply.

5. Select Advanced > Internet > Connections.

Wireless ADSL2+ Router - Windows Internet Explorer
http://192.168.1.1/

Dynalink
Quick Start | Status | **Advanced** | Wireless | Management
Language: English

Local Network
Internet
Connections
DNS Server
IGMP Proxy
DSL
IP Routing
Virtual Server
NAT ALG
Firewall
Quality of Service
Port Mapping

Firmware: 3.64y
ADSL2+: A2pB025c.d20h
Wireless: 3.131.35.6

Internet Connection Configuration

Choose Add or Edit to configure Internet connection.
Choose Finish to apply the changes and reboot the system.

PVC Name	VPI/VCI	Category	Protocol	NAT	QoS	WAN IP Address	MTU	Edit
pppoa_0_100_1 Disconnect	0/100	UBR	PPPoA VC MUX	On	On	Auto assigned	1500	

The Internet connection is NOT active if PVC name is marked with (?). You need to click "Finish" to apply the changes and reboot the system.

Internet | Protected Mode: On | 100%

6. Click the Add button.

7. Enter 0 for the VPI field and 35 for the VCI field with UBR without PCR.

Wireless ADSL2+ Router - Windows Internet Explorer

http://192.168.1.1/

File Edit View Favorites Tools Help

Wireless ADSL2+ Router

Dynalink

Quick Start Status Advanced Wireless Management

Language: English

Local Network

Internet

Connections

DNS Server

IGMP Proxy

DSL

IP Routing

Virtual Server

NAT ALG

Firewall

Quality of Service

Port Mapping

Firmware: 3.64y
ADSL2+: A2pB025c.d20h
Wireless: 3.131.35.6

Configure Internet Connection -- ATM PVC

Please enter VPI and VCI numbers for the Internet connection which is provided by your ISP.

VPI: (0-255)

VCI: (32-65535)

Service Category:

< Back Next >

Internet | Protected Mode: On

8. Click the Next button.

9. Select Bridging as the protocol and LLC / SNAP BRIDGING as the encapsulation mode. Quality of Service is optional. Leave 802.1Q VLAN tagging unchecked.

Wireless ADSL2+ Router - Windows Internet Explorer

http://192.168.1.1/

File Edit View Favorites Tools Help

Dynalink

Quick Start | Status | Advanced | Wireless | Management

Language: English

Local Network

Internet

- Connections
- DNS Server
- IGMP Proxy
- DSL
- IP Routing
- Virtual Server
- NAT ALG
- Firewall
- Quality of Service
- Port Mapping

Firmware: 3.64y
ADSL2+ : A2pB025c.d20h
Wireless : 3.131.35.6

Configure Internet Connection - Connection Type

Select the protocol and encapsulation type with the ATM PVC that your ISP has instructed you to use.

Protocol:

- PPP over ATM (PPPoA)
- PPP over Ethernet (PPPoE)
- IP over ATM (IPoA)
- Bridging

Encapsulation Type: LLC/SNAP

Enable QoS

Enabling IP QoS for a PVC can improve performance for selected classes of applications. Please assign the priorities for various applications from the [Advanced... | Quality of Service](#) menu. Be aware that IP QoS also consumes system resources, the number of created PVCs will be reduced consequently.

Enable 802.1Q VLAN Tagging

< Back Next >

Internet | Protected Mode: On

10. Press the Next button.

11. Leave the WAN IP settings as none unless otherwise specified by your Internet Service provider.

Wireless ADSL2+ Router - Windows Internet Explorer

http://192.168.1.1/

File Edit View Favorites Tools Help

Wireless ADSL2+ Router

Dynalink

Quick Start | Status | **Advanced** | Wireless | Management

Language: English

Local Network

Internet

Connections

DNS Server

IGMP Proxy

DSL

IP Routing

Virtual Server

NAT ALG

Firewall

Quality of Service

Port Mapping

Firmware: 3.64y
ADSL2+ : A2p8025c.d20h
Wireless : 3.131.35.6

Configure Internet Connection - WAN IP Settings

Enter information provided to you by your ISP to configure the WAN IP settings.

None

Obtain an IP address automatically

Use the following IP address:

WAN IP Address:

WAN Subnet Mask:

Default Gateway:

< Back Next >

Done

Internet | Protected Mode: On

100%

12. Press the Next button.

13. Check the "Enable this Internet Connection" option. You may change the service name to IPTV if you so choose.

Wireless ADSL2+ Router - Windows Internet Explorer

http://192.168.1.1/

File Edit View Favorites Tools Help

Dynalink Quick Start Status Advanced Wireless Management

Language: English

Local Network

Internet

- Connections
- DNS Server
- IGMP Proxy
- DSL

IP Routing

Virtual Server

NAT ALG

Firewall

Quality of Service

Port Mapping

Firmware: 3.64y
ADSL2+ : A2pB025c.d20h
Wireless : 3.131.35.6

This Internet Connection -- Summary

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

Enable this Internet Connection

Connection Name:

Internet (WAN) Configuration:

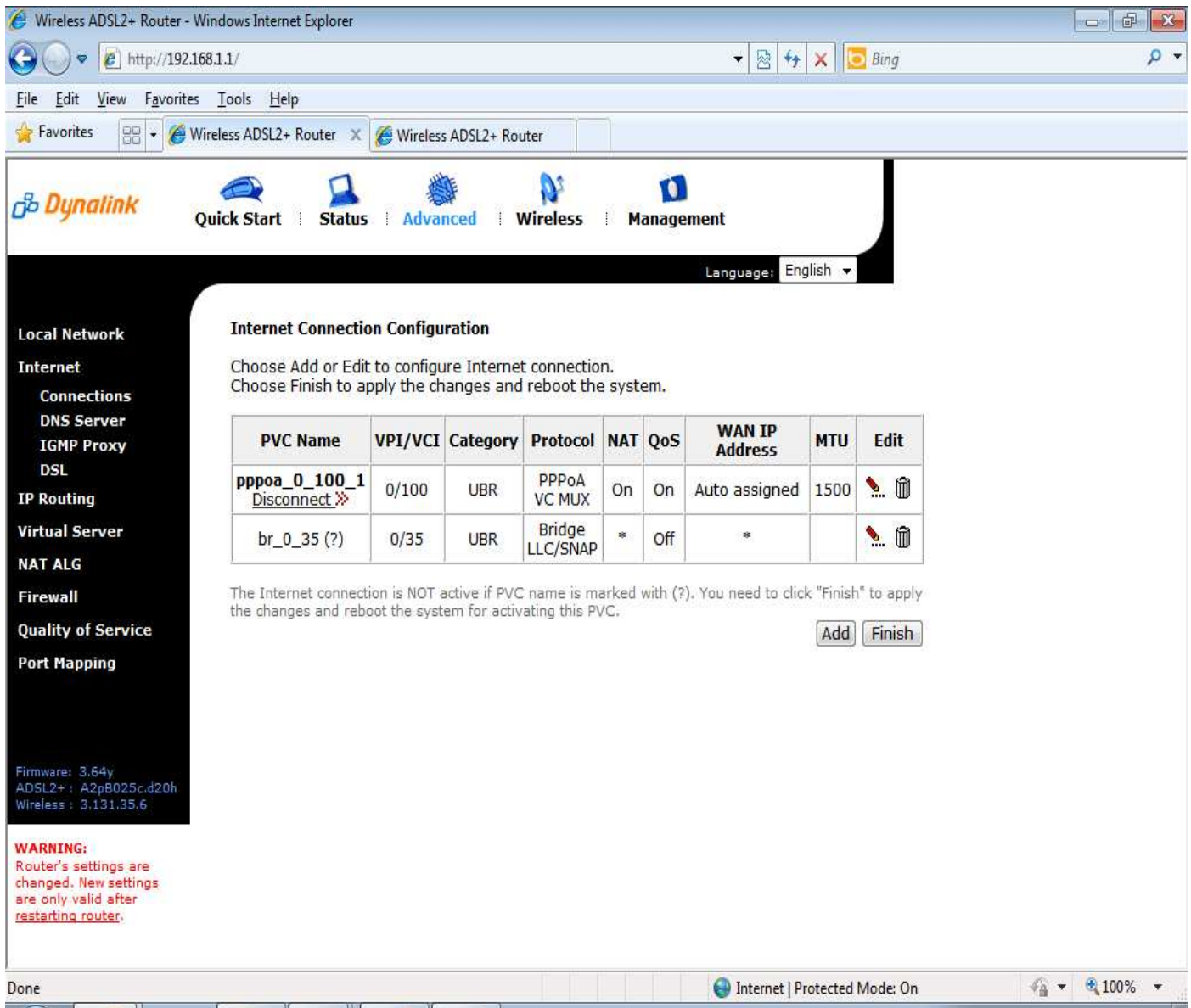
VPI / VCI	0 / 35
Service Category	UBR
Connection Type	Bridge LLC/SNAP, QoS Off

Click "Apply" to accept these settings.
Click "Back" to make any modifications.

Done Internet | Protected Mode: On 100%

14. Press the Apply button.

15. Check the IPTV configuration summary before pressing the Finish button to save the settings and reboot the router.



Wireless ADSL2+ Router - Windows Internet Explorer

http://192.168.1.1/

File Edit View Favorites Tools Help

Dynalink Quick Start Status Advanced Wireless Management

Language: English

Local Network

- Internet
 - Connections
 - DNS Server
 - IGMP Proxy
 - DSL
- IP Routing
- Virtual Server
- NAT ALG
- Firewall
- Quality of Service
- Port Mapping

Firmware: 3.64y
ADSL2+ : A2p8025c.d20h
Wireless : 3.131.35.6

Internet Connection Configuration

Choose Add or Edit to configure Internet connection.
Choose Finish to apply the changes and reboot the system.

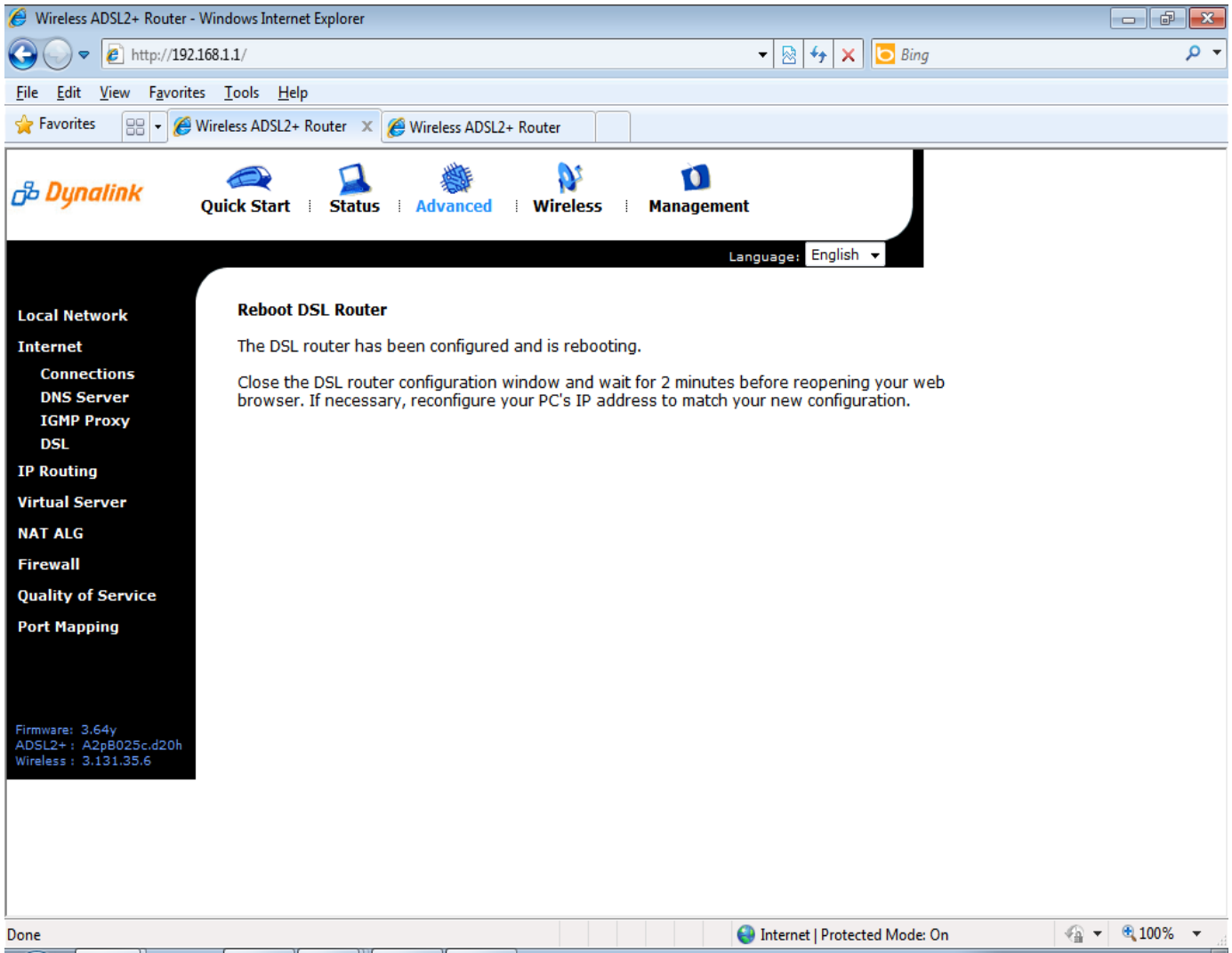
PVC Name	VPI/VCI	Category	Protocol	NAT	QoS	WAN IP Address	MTU	Edit
pppoa_0_100_1 Disconnect ✖	0/100	UBR	PPPoA VC MUX	On	On	Auto assigned	1500	✎ ✖
br_0_35 (?)	0/35	UBR	Bridge LLC/SNAP	*	Off	*		✎ ✖

The Internet connection is NOT active if PVC name is marked with (?). You need to click "Finish" to apply the changes and reboot the system for activating this PVC.

WARNING:
Router's settings are changed. New settings are only valid after restarting router.

Done Internet | Protected Mode: On 100%

16. The router will now reboot and you will see the following screen image.



17. Select Advanced > Port Mapping.

The screenshot shows the NetComm Wireless ADSL2+ Router web interface in Internet Explorer. The browser address bar shows <http://192.168.1.1/>. The interface includes a navigation menu with options: Quick Start, Status, Advanced (selected), Wireless, and Management. A sidebar on the left lists various settings categories, with Port Mapping selected. The main content area is titled "Port Mapping Configuration" and contains the following text:

This page allows you to configure various port mapping groups which contains specific Internet connections and LAN ports. The user data are only transmitted and received among the interfaces in the group.

NOTE: DHCP server and all routing/firewall functions are only available at the Default group.

Virtual LAN Function on Ethernet: Disabled Enabled

Group Name	Internet Connections	LAN Ports	Edit
Default	pppoa_0_100_1, br_0_35	Ethernet, USB, Wireless	

At the bottom left, the firmware and software versions are listed: Firmware: 3.64y, ADSL2+: A2p8025c.d20h, Wireless: 3.131.35.6. The status bar at the bottom indicates "Internet | Protected Mode: On" and "100%".

18. Set the Virtual LAN function on Ethernet to Enabled and press Apply. Then press the Add button.

19. Enter a group name eg. IPTV to group the IPTV connection to a LAN interface, preferably an ethernet port for optimal performance.
20. Select br_0_35 and an ethernet port, in the example below the fourth ethernet port is grouped for IPTV.

The screenshot shows a web browser window titled "Wireless ADSL2+ Router - Windows Internet Explorer" with the address bar set to "http://192.168.1.1/". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The address bar contains "http://192.168.1.1/" and a search icon. The browser's toolbar shows "Favorites" and two tabs for "Wireless ADSL2+ Router".

The main content area features the Dynalink logo and a navigation menu with "Quick Start", "Status", "Advanced", "Wireless", and "Management". A "Language: English" dropdown is visible. On the left, a sidebar lists navigation options: "Local Network", "Internet", "IP Routing", "Virtual Server", "NAT ALG", "Firewall", "Quality of Service", and "Port Mapping".

The "Add New Port Mapping Group" section is active, displaying the following information:

- Group Name:** IPTV (with a note: "The group name must be unique.")
- Available Interfaces:** Ethernet1, Ethernet2, Ethernet3, USB, Wireless
- Grouped Interfaces:** br_0_35, Ethernet4
- Buttons:** "Add >" and "< Remove"
- Footer:** "< Back" and "Apply" buttons, with a note: "Selected interfaces will be removed from their existing groups and added to the new group. If you remove one interface from current group, this interface will be returned back to the Default group."

The bottom status bar shows "Done", "Internet | Protected Mode: On", and a zoom level of "100%".

21. Press the Apply button.

22. Check that there is now a port mapping entry assigning the IPTV connection to a LAN interface.

The screenshot shows the web interface of a NetComm Wireless ADSL2+ Router. The browser address bar shows `http://192.168.1.1/`. The interface includes a navigation menu with options like Quick Start, Status, Advanced, Wireless, and Management. A sidebar on the left lists various settings categories, with 'Port Mapping' selected. The main content area is titled 'Port Mapping Configuration' and contains a table of port mapping groups.

Port Mapping Configuration

This page allows you to configure various port mapping groups which contains specific Internet connections and LAN ports. The user data are only transmitted and received among the interfaces in the group.

NOTE: DHCP server and all routing/firewall functions are only available at the Default group.

Virtual LAN Function on Ethernet: Disabled Enabled

Group Name	Internet Connections	LAN Ports	Edit
Default	pppoa_0_100_1	Ethernet.1, Ethernet.2, Ethernet.3, USB, Wireless	
IPTV	br_0_35	Ethernet.4	

Firmware: 3.64y
ADSL2+: A2p8025c_d20h
Wireless: 3.131.35.6

The RTA1025W is now configured for IPTV.