

UT-STAR Type 2 Single Port wireless (WA3002-g1)

firmware version 2.7.0.31(RUE0.C1)3.5.10.0 configuration guide

UTStarcom's Type 2 ADSL router enables routing and bridging functions via a single DSL connection for high quality triple play applications. Designed for residential, small-sized LAN and applications, it supports higher ADSL/ADSL2+ speeds for triple play and high-end.video applications.This has the capability of simultaneous ethernet connection and wireless connection

I) Physical Outlook

Front Panel - LED Indicators

The ADSL Router is equipped with four LEDs on the front panel as described in the table below

Name of LED	Colour	Indication
PWR	Green	The Power LED lights up when the router is powered on
LAN	Green	Solidly lit when Ethernet connection to PC is OK
ADSL	<i>Green</i>	This LED is off when an ADSL line is not detected. It flashes when the router is attempting to make an ADSL connection. The LED is solidly lit when an ADSL connection has been successfully established.
Wireless	Green	Solidly lit when router is ready for using in wireless applications.

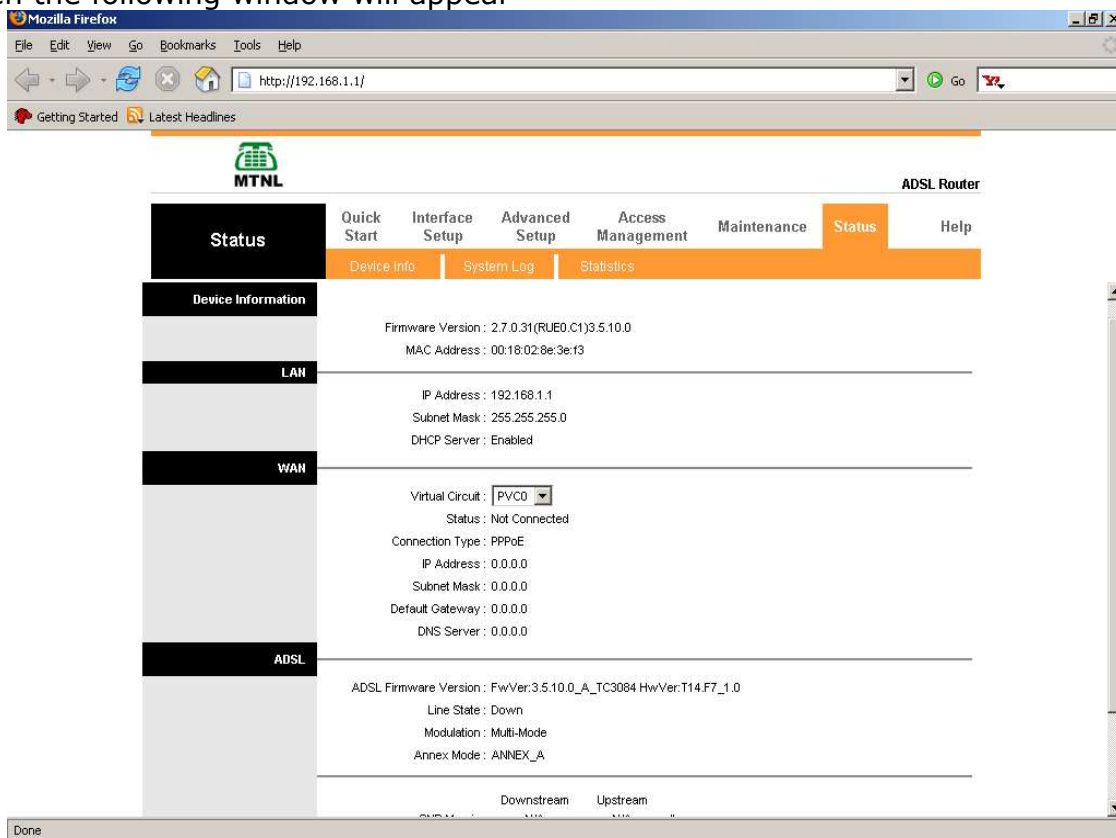
II) Configuration (Only for Internet)

- 1) Open the Internet Explorer and type <http://192.168.1.1/> Then the following window will appear



A prompt dialog box titled "Prompt" with a close button (X) in the top right corner. The text inside reads: "Enter username and password for 'WA3002-g1' at http://192.168.1.1". Below this text are two input fields: "User Name:" and "Password:". At the bottom of the dialog are two buttons: "OK" and "Cancel".

- 2) Type username as **admin** and password as **admin**
Then the following window will appear



A screenshot of a Mozilla Firefox browser window displaying the status page of an MTNL ADSL Router. The browser's address bar shows "http://192.168.1.1/". The page features the MTNL logo and a navigation menu with tabs: "Quick Start", "Interface Setup", "Advanced Setup", "Access Management", "Maintenance", "Status" (selected), and "Help". Below the navigation menu are sub-tabs: "Device Info", "System Log", and "Statistics". The main content area is divided into sections: "Device Information" (Firmware Version: 2.7.0.31(RUE0.C1)3.5.10.0, MAC Address: 00:18:02:8e:3e:f3), "LAN" (IP Address: 192.168.1.1, Subnet Mask: 255.255.255.0, DHCP Server: Enabled), "WAN" (Virtual Circuit: PVCO, Status: Not Connected, Connection Type: PPPoE, IP Address: 0.0.0.0, Subnet Mask: 0.0.0.0, Default Gateway: 0.0.0.0, DNS Server: 0.0.0.0), and "ADSL" (ADSL Firmware Version: FwVer:3.5.10.0_A_TC3084 HwVer:T14.F7_1.0, Line State: Down, Modulation: Multi-Mode, Annex Mode: ANNEX_A). At the bottom, there are labels for "Downstream" and "Upstream". The browser's status bar at the bottom shows "Done".

3) Click on **Interface Setup --> Internet**

3-I) Select **Virtual Circuit** as **PVC 0**
Select **Status 'Activated'**

Type **VPI 0** and **VCI 32**

Select ISP as **PPPoA/PPPoE**

Type **Telephone No** as **username** and **CA No (Subscriber No)** as **password**

Select **Encapsulation** as **PPPoE LLC**

3-II) Type **TCP MSS : 1360 Bytes**

Type **TCP MTU : 1492 Bytes**

Click on **Save**

Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://192.168.1.1/ Go

Getting Started Latest Headlines

MTNL ADSL Router

Interface Quick Start **Interface Setup** Advanced Setup Access Management Maintenance Status Help

Internet LAN Wireless

Bridge Mode

PPPoE/PPPoA

Connection Setting

Username: 24367754
Password: *****
Encapsulation: PPPoE LLC
Bridge Interface: Activated Deactivated

Connection: Always On (Recommended)
 Connect On-Demand (Close if idle for 0 minutes)

IP Address

TCP MSS Option: TCP MSS(0.default) 1360 bytes

Get IP Address: Static Dynamic

Static IP Address: 0.0.0.0
IP Subnet Mask: 0.0.0.0
Gateway: 0.0.0.0

NAT: Enable

Default Route: Yes No

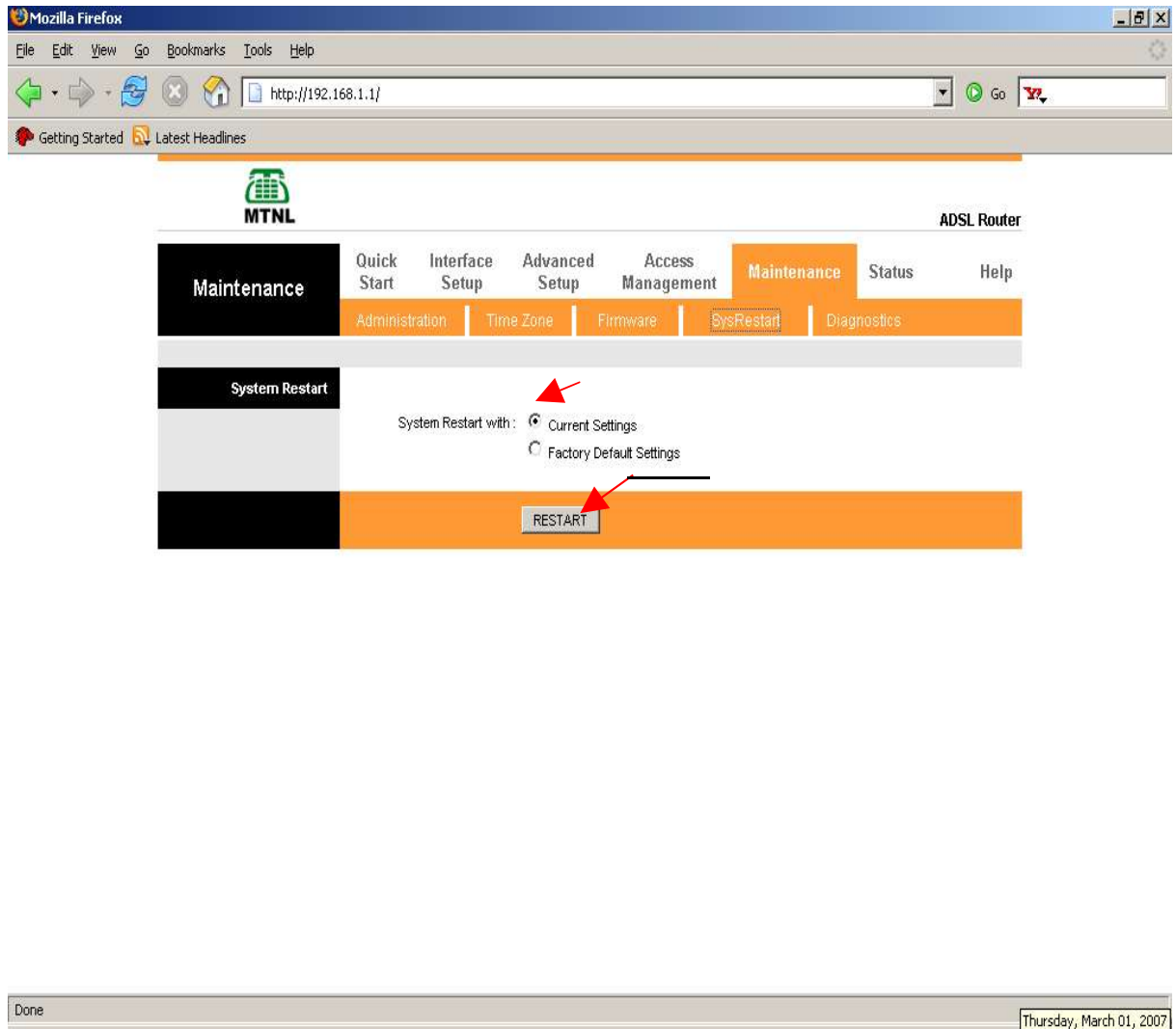
TCP MTU Option: TCP MTU(0.default) 1492 bytes

Dynamic Route: RIP2-B Direction Both

Multicast: Disabled

SAVE

- 4) Go to **Maintenance --> SYSRestart**
Select **Current Settings** Click **RESTART**



Now ADSL Router Configuration is over.

Checking whether router is connected to internet or not

Open the router homepage (<http://192.168.1.1/>), If under virtual circuit, PVC0, Status is **connected** and **IP address is got**, then router is connected to internet as shown below.

The screenshot shows the MTNL ADSL Router status page in a Mozilla Firefox browser. The browser's address bar shows the URL <http://192.168.1.1/>. The page title is "ADSL Router". The navigation menu includes "Quick Start", "Interface Setup", "Advanced Setup", "Access Management", "Maintenance", "Status", and "Help". The "Status" section is active, showing "Device Info", "System Log", and "Statistics".

The "Device Information" section displays the following details:

- Firmware Version : 2.7.0.31(RUE0.C1)3.5.10.0
- MAC Address : 00:18:02:8e:3e:f3

The "LAN" section displays the following details:

- IP Address : 192.168.1.1
- Subnet Mask : 255.255.255.0
- DHCP Server : Enabled

The "WAN" section displays the following details:

- Virtual Circuit : PVC0
- Status : Connected
- Connection Type : PPPoE
- IP Address : 59.181.96.1
- Subnet Mask : 255.255.255.255
- Default Gateway : 59.183.63.254
- DNS Server : 203.94.227.70
- PPP connection time : 0:02:21:44

The "ADSL" section displays the following details:

- ADSL Firmware Version : FwVer:3.5.10.0_A_TC3084 HwVer:T14.F7_1.0
- Line State : Showtime
- Modulation : ADSL2 PLUS
- Annex Mode : ANNEX_A

At the bottom of the page, there are "Downstream" and "Upstream" sections, which are currently empty. The browser's status bar at the bottom shows "Done".

III)Configuration (For Internet + IPTV)

For customers, who have both Internet & IPTV services, both PVCs (PVC 0 for Internet and PVC 1 for IPTV) must configure in Bridge Mode and DHCP should be disabled.

1) First of all Give IP Settings manually to the LAN Card as shown below

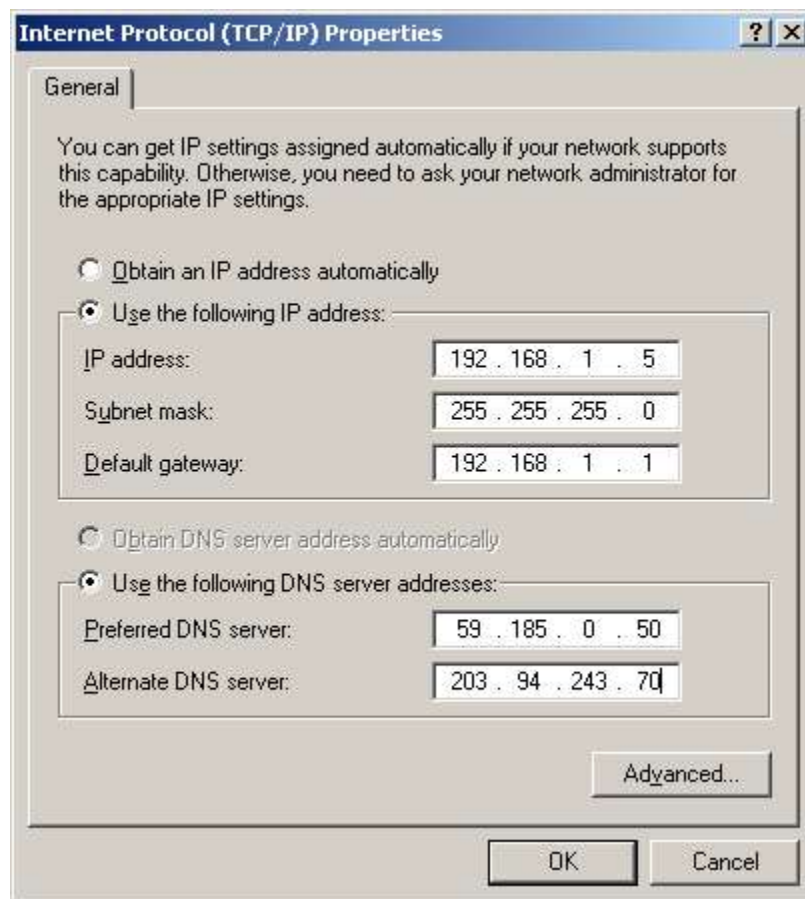
IP Address : 192.168.1.x (x= 2,3,4,...254)

SubNet mask :255.255.255.0

Default Gateway : 192.168.1.1

Preferred DNS Server : 59.185.0.50

Alternate DNS Server : 203.94.243.70



2-i) For Internet (PVC 0) configuration, open router homepage
<http://192.168.1.1/> ,

Click on **Interface Set up--> Internet**

Select **Virtual Circuit** as **PVC 0**
Select **Status** '**Activated**'

Type **VPI 0** and **VCI 32**

Select **ISP** as **Bridge Mode**
Select **Encapsulation** as **1483 Bridged IP LLC**

The screenshot shows the configuration page for an MTNL ADSL Router. The browser window title is 'Mozilla Firefox' and the address bar shows 'http://192.168.1.1/'. The page has a navigation menu with 'Interface Setup' selected. The configuration is for 'Internet' and shows settings for 'ATM VC', 'QoS', 'Encapsulation', and 'Bridge Mode'. Red arrows point to the 'Virtual Circuit' dropdown (set to PVC0), 'Status' radio buttons (set to Activated), 'VPI' field (set to 0), 'VCI' field (set to 32), 'ISP' radio buttons (set to Bridge Mode), and 'Encapsulation' dropdown (set to 1483 Bridged IP LLC). A 'SAVE' button is at the bottom.

Done

**2-ii) For IPTV (PVC 1) Configuration,
Virtual Circuit as PVC 1**

Select **Status 'Activated'**

Type **VPI 0** and **VCI 33**

Select **ISP** as **Bridge Mode**

Select **Encapsulation** as **1483 Bridged IP LLC**

Click **SAVE**

Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://192.168.1.1/

Getting Started Latest Headlines

MTNL ADSL Router

Interface Quick Start Interface Setup Advanced Setup Access Management Maintenance Status Help

Internet LAN Wireless

ATM VC

Virtual Circuit: PVC1 PVCs Summary

Status: Activated Deactivated

VPI: 0 (range: 0-255)

VCI: 33 (range: 1-65535)

QoS

ATM QoS: UBR

PCR: 0 cells/second

SCR: 0 cells/second

MBS: 0 cells

Encapsulation

ISP: Dynamic IP Address
 Static IP Address
 PPPoA/PPPoE
 Bridge Mode

Bridge Mode

Encapsulation: 1483 Bridged IP LLC

SAVE DELETE

Done

**2-iii) For make DHCP Disabled, Go to Interface Setup --> LAN
Select DHCP option as Disabled**

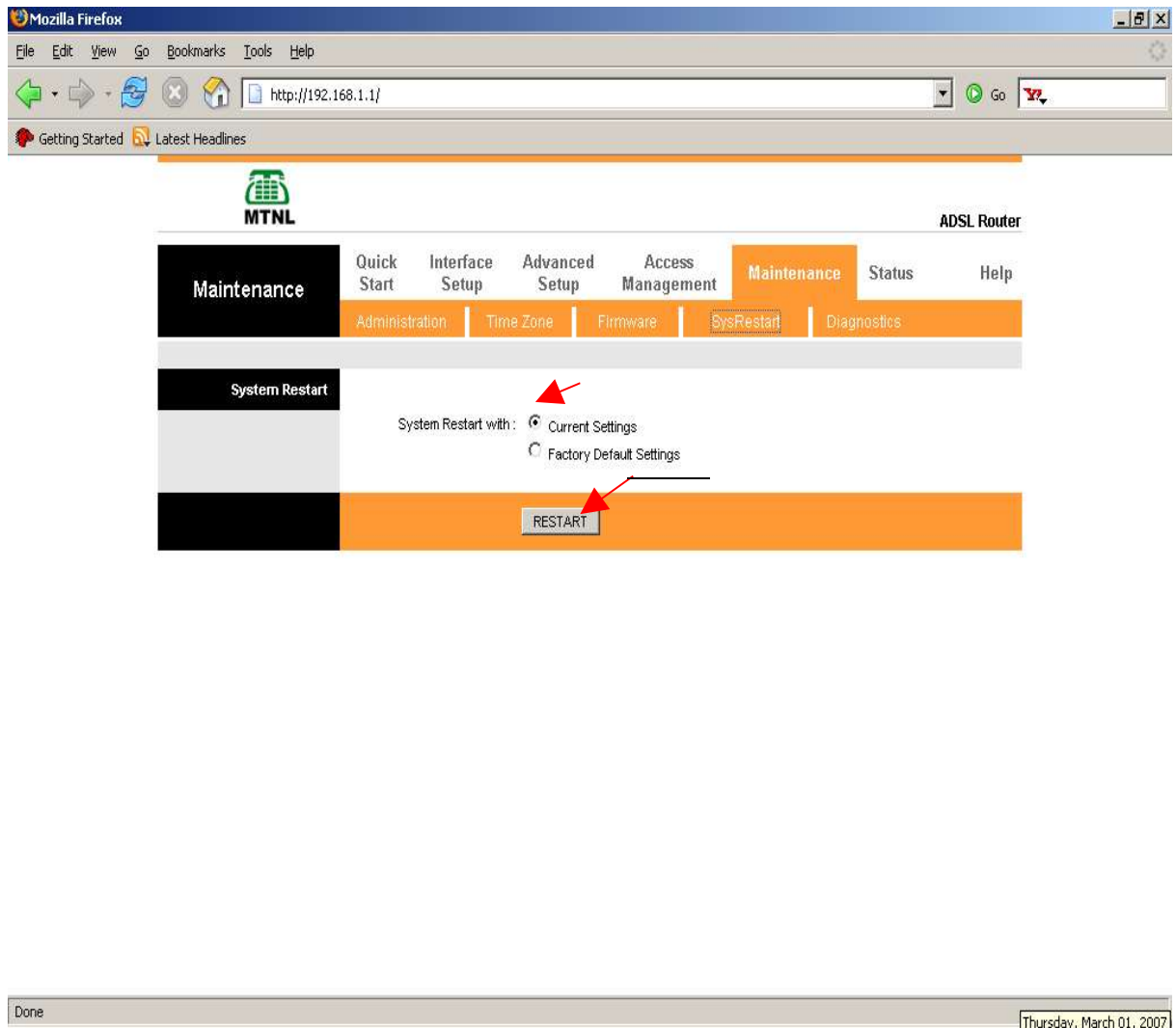
Click SAVE

The screenshot shows a Mozilla Firefox browser window displaying the MTNL ADSL Router configuration page. The browser's address bar shows the URL `http://192.168.1.1/`. The page features a navigation menu with tabs for 'Quick Start', 'Interface Setup', 'Advanced Setup', 'Access Management', 'Maintenance', 'Status', and 'Help'. Under the 'Interface Setup' tab, there are sub-tabs for 'Internet', 'LAN', and 'Wireless'. The 'LAN' sub-tab is selected, and the 'DHCP' section is expanded. In the 'DHCP' section, the 'DHCP' label is followed by three radio button options: 'Disabled' (which is selected), 'Enabled', and 'Relay'. A red arrow points to the 'Disabled' radio button. Below the DHCP options, there are 'SAVE' and 'CANCEL' buttons. The page also includes a 'Router Local IP' section with fields for 'IP Address' (192.168.1.1) and 'IP Subnet Mask' (255.255.255.0), and a 'Dynamic Route' section with dropdown menus for 'Dynamic Route' (RIP2-B) and 'Direction' (None). The 'Multicast' option is set to 'Disabled'.

Done

3) Go to **Maintenance --> SYSRestart**

Select **Current Settings** Click **RESTART**



4) After reboot, Dial with the PPPoE Dialer (put Tel No as username & CA No (subsc. No) as password). After successful authorization, check the Internet Connection. After this, switch on Set Top Box (STB)

IV) Set Up for Wireless

IV-i) First of all Give IP Settings manually to the LAN Card as shown below

IP Address : 192.168.1.x (x= 2,3,4,...254)

SubNet mask : 255.255.255.0

Default Gateway : 192.168.1.1

Preferred DNS Server : 59.185.0.50

Alternate DNS Server : 203.94.243.70

IV-ii) Open the router homepage <http://192.168.1.1>

go to **Interface Setup --> Wireless**

Click **Access Point 'Activated'**

Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://192.168.1.1/

Getting Started Latest Headlines

MTNL ADSL Router

Interface Quick Start **Interface Setup** Advanced Setup Access Management Maintenance Status Help

Internet LAN **Wireless**

Wireless LAN

Access Point : Activated Deactivated

SSID : RT2561_6

Broadcast SSID : Yes No

Channel ID : Channel06 2437MHz

Authentication Type : Disabled

Advanced Setting

Beacon Interval : 100 (range: 20~1000)

RTS/CTS Threshold : 2347 (range: 1500~2347)

Fragmentation Threshold : 2346 (range: 256~2346, even numbers only)

DTIM : 3 (range: 1~255)

802.11 b/g : 802.11b+g

Wireless MAC Address Filter

Active : Activated Deactivated

Action : Allow Association the following Wireless LAN station(s) association.

Mac Address #1 : 00:00:00:00:00:00

Mac Address #2 : 00:00:00:00:00:00

Mac Address #3 : 00:00:00:00:00:00

Mac Address #4 : 00:00:00:00:00:00

Mac Address #5 : 00:00:00:00:00:00

Mac Address #6 : 00:00:00:00:00:00

Done Friday, March 02, 2007

IV-iii) For restricting access to Wireless router (thus Internet also) can be done by putting MAC Address of NIC Cards from which access to be allowed in the wireless set up as explained below.

Open the router homepage <http://192.168.1.1>

go to **Interface Setup --> Wireless**

Under **Wireless MAC Address filter** heading , select '**Active**' as **Activated**

Select '**Action**' as **Allow Dissociation** and type MAC Addresses of NIC Cards from which access to be allowed.

For eg: If a PC which has an NIC card having a MAC Address 00:E0:4C:69:10:C7 has to be allowed to access the wireless router, settings should be made as shown below ..

MTNL ADSL Router

Interface Setup

Wireless

Access Point: Activated Deactivated

SSID: RT2561_6

Broadcast SSID: Yes No

Channel ID: Channel06 2437MHz

Authentication Type: Disabled

Advanced Setting

Beacon Interval: 100 (range: 20~1000)

RTS/CTS Threshold: 2347 (range: 1500~2347)

Fragmentation Threshold: 2346 (range: 256~2346, even numbers only)

DTIM: 3 (range: 1~255)

802.11 b/g: 802.11b+g

Wireless MAC Address Filter

Active: Activated Deactivated

Action: Allow Association the follow Wireless LAN station(s) association.

Mac Address #1: 00:E0:4C:69:10:C7

Mac Address #2: 00:00:00:00:00:00

Mac Address #3: 00:00:00:00:00:00

Mac Address #4: 00:00:00:00:00:00

Mac Address #5: 00:00:00:00:00:00

Mac Address #6: 00:00:00:00:00:00

Mac Address #7: 00:00:00:00:00:00

Mac Address #8: 00:00:00:00:00:00

http://192.168.1.1/basic/home_wlan.htm

Note:1) There is no provision for USB. So customer must have Ethernet Card or Wireless card on his PC

2) If Customer has IPTV & Internet, he must have wireless card in his PC since the ethernet port will be used for connecting STB.