

Dear Customer,

This user guide explains how to set-up the static ip according to your application. Also this explains how the ports in which the application is working, to be forwarded to the server.

Before going to the router portforwarding set-up, just check up the following things

- In the TCP/IP properties of the LAN card/USB with which router is connected, just enter the following set-up

IP Address = 192.168.1.x (x= 2,3,...254) (In the document, this IP is mentioned as 192.168.1.2 which is the default IP)

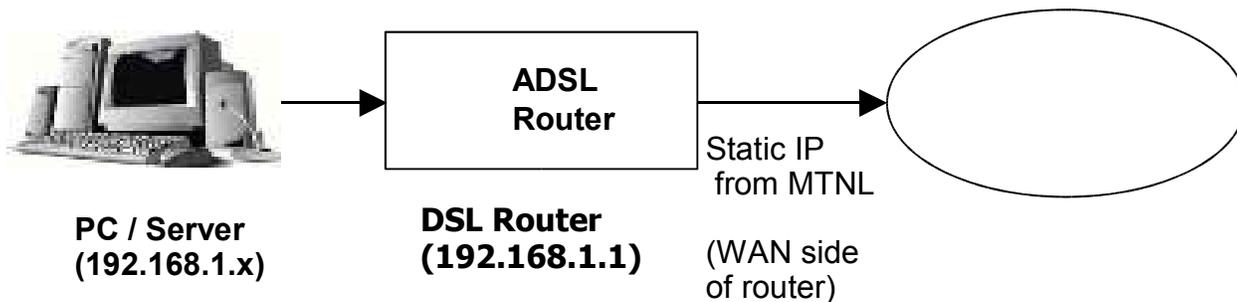
Subnet mask: 255.255.255.0

Default Gateway: 192.168.1.1

Preferred DNS server: 203.94.227.70

Alternate DNS server address: 203.94.243.70

- If application is working in other than PC (for e.g.: VOIP box etc) enter the above set up in that system also.



Note: Since NAT enabled in ADSL router Static IP will be allotted on WAN side and private IP 192.168.1.x will be allotted to the machines connected to the router as shown above.

I. IP address verification

1) For checking whether the router is connected to Internet with static IP,

Open the internet explorer and type IP address of UTstar router (<http://192.168.1.1/>)

Put username **admin** and password **admin**

2) Goto **Device Info** → **WAN** Under the heading IP address, Static IP allotted from MTNL will be displayed (59.X.X.X)

DSL Router - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.1.1/

Getting Started Latest Headlines

MTNL

Device Info
Summary
WAN
Statistics
Route
ARP
DHCP
Advanced Setup
Diagnostics
Management

WAN Info

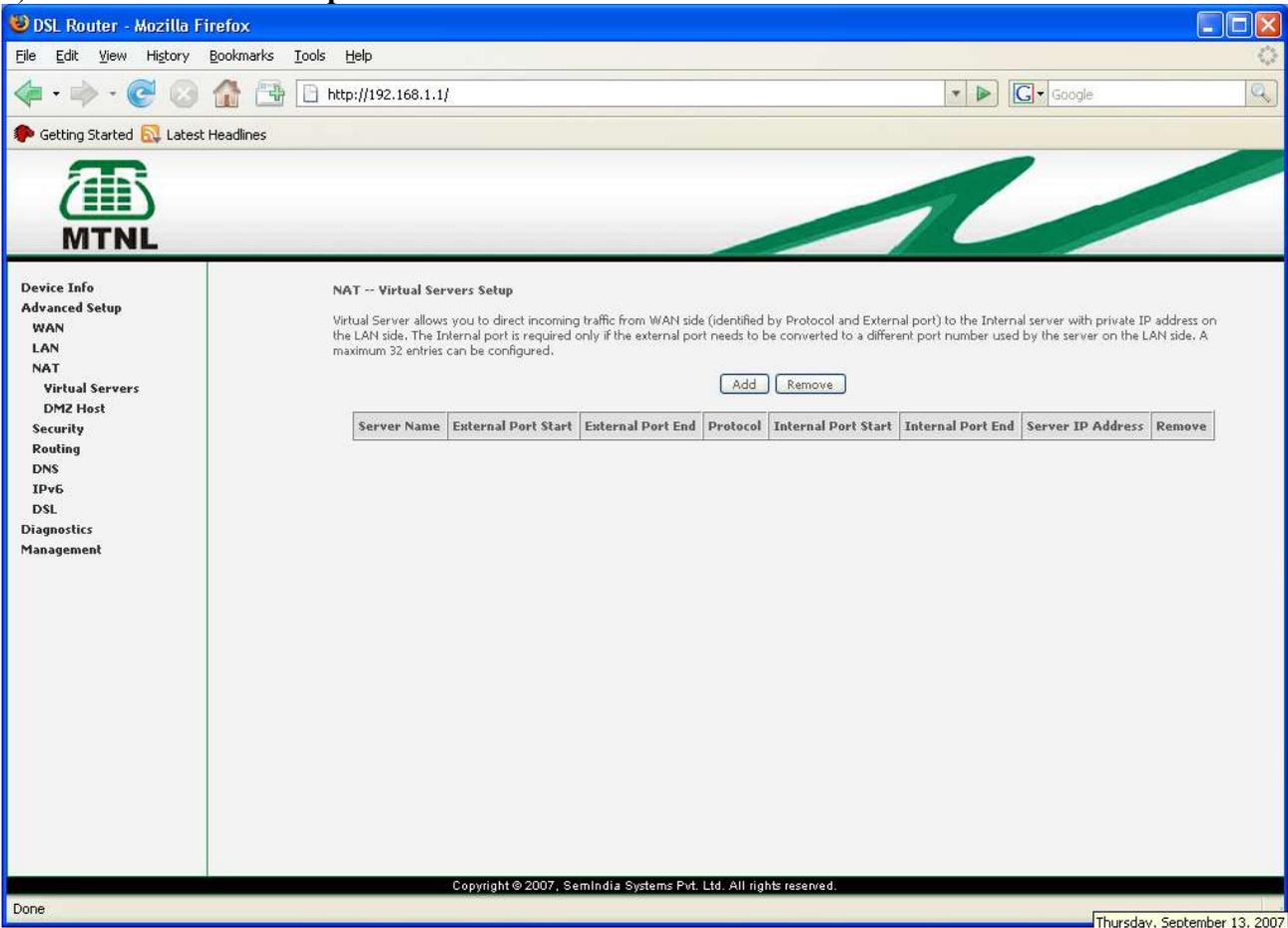
VPI/VCI	Con. ID	Category	Service	Interface	Protocol	Igmp	QoS	State	Status	IP Address
0/32	1	UBR	pppoe_0_32_1	ppp_0_32_1	PPPoE	Disabled	Disabled	Enabled	Up	59.183.120.189
0/33	1	UBR	br_0_33	nat_0_33	Bridge	N/A	Disabled	Enabled	Up	

Copyright © 2007, SemIndia Systems Pvt. Ltd. All rights reserved.

Done

II. Port Forwarding

1) Go to Advanced Setup → NAT



The screenshot shows the DSL Router's web interface in Mozilla Firefox. The browser's address bar displays `http://192.168.1.1/`. The page features the MTNL logo and a navigation menu on the left with options like Device Info, Advanced Setup, WAN, LAN, NAT, Virtual Servers, DMZ Host, Security, Routing, DNS, IPv6, DSL, Diagnostics, and Management. The main content area is titled "NAT -- Virtual Servers Setup" and includes a descriptive paragraph about virtual servers. Below the text are "Add" and "Remove" buttons, and a table with the following headers: "Server Name", "External Port Start", "External Port End", "Protocol", "Internal Port Start", "Internal Port End", "Server IP Address", and "Remove". The footer contains the copyright notice "Copyright © 2007, SemIndia Systems Pvt. Ltd. All rights reserved." and the date "Thursday, September 13, 2007".

DSL Router - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.1.1/

Getting Started Latest Headlines

MTNL

Device Info
Advanced Setup
WAN
LAN
NAT
Virtual Servers
DMZ Host
Security
Routing
DNS
IPv6
DSL
Diagnostics
Management

NAT -- Virtual Servers Setup

Virtual Server allows you to direct incoming traffic from WAN side (identified by Protocol and External port) to the Internal server with private IP address on the LAN side. The Internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum 32 entries can be configured.

Add Remove

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Remove
-------------	---------------------	-------------------	----------	---------------------	-------------------	-------------------	--------

Copyright © 2007, SemIndia Systems Pvt. Ltd. All rights reserved.

Done Thursday, September 13, 2007

2) Click on **Add**

3) Select the application which is to be configured with static ip (webserver, ftp,telnet,vpn etc) from the **Select One** drop down menu

Enter the server IP address (LAN IP of the machine in which application is running)

Click on **Save & Apply**

For e.g.: Webserver is to be configured and application working on server whose LAN IP address 192.168.1.2 . The setting will be as shown below

DSL Router - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.1.1/

Getting Started Latest Headlines

MTNL

Device Info
Advanced Setup
WAN
LAN
NAT
Virtual Servers
DMZ Host
Security
Routing
DNS
IPv6
DSL
Diagnostics
Management

NAT -- Virtual Servers

Select the service name, and enter the server IP address and click "Save/Apply" to forward IP packets for this service to the specified server. **NOTE: The "Internal Port End" cannot be changed. It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified.**
Remaining number of entries that can be configured:32

Server Name:
 Select a Service: Web Server (HTTP) Custom Server:

Server IP Address: 192.168.1.2

Save/Apply

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
80	80	TCP	80	80
		TCP		

Copyright © 2007, SemIndia Systems Pvt. Ltd. All rights reserved.

Done

4) if the application (or particular port) is not mentioned in the list, it can be added by clicking on **custom server**

- Select custom server ;mention the application name
- Type the port no of the application in external port start and external port end
- Mention if the port is TCP/UDP or both from Protocol field

Click on **save and apply**

(For an e.g.: of VOIP ports 1100(TCP) 1101(UDP) is to be configured as shown below)

DSL Router - Mozilla Firefox
http://192.168.1.1/

MTNL

Device Info
Advanced Setup
WAN
LAN
NAT
Virtual Servers
DMZ Host
Security
Routing
DNS
IPv6
DSL
Diagnostics
Management

NAT -- Virtual Servers

Select the service name, and enter the server IP address and click "Save/Apply" to forward IP packets for this service to the specified server. NOTE: The "Internal Port End" cannot be changed. It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified.
Remaining number of entries that can be configured:32

Server Name:
 Select a Service: Web Server (HTTP)
 Custom Server: VOIP

Server IP Address: 192.168.1.2

Save/Apply

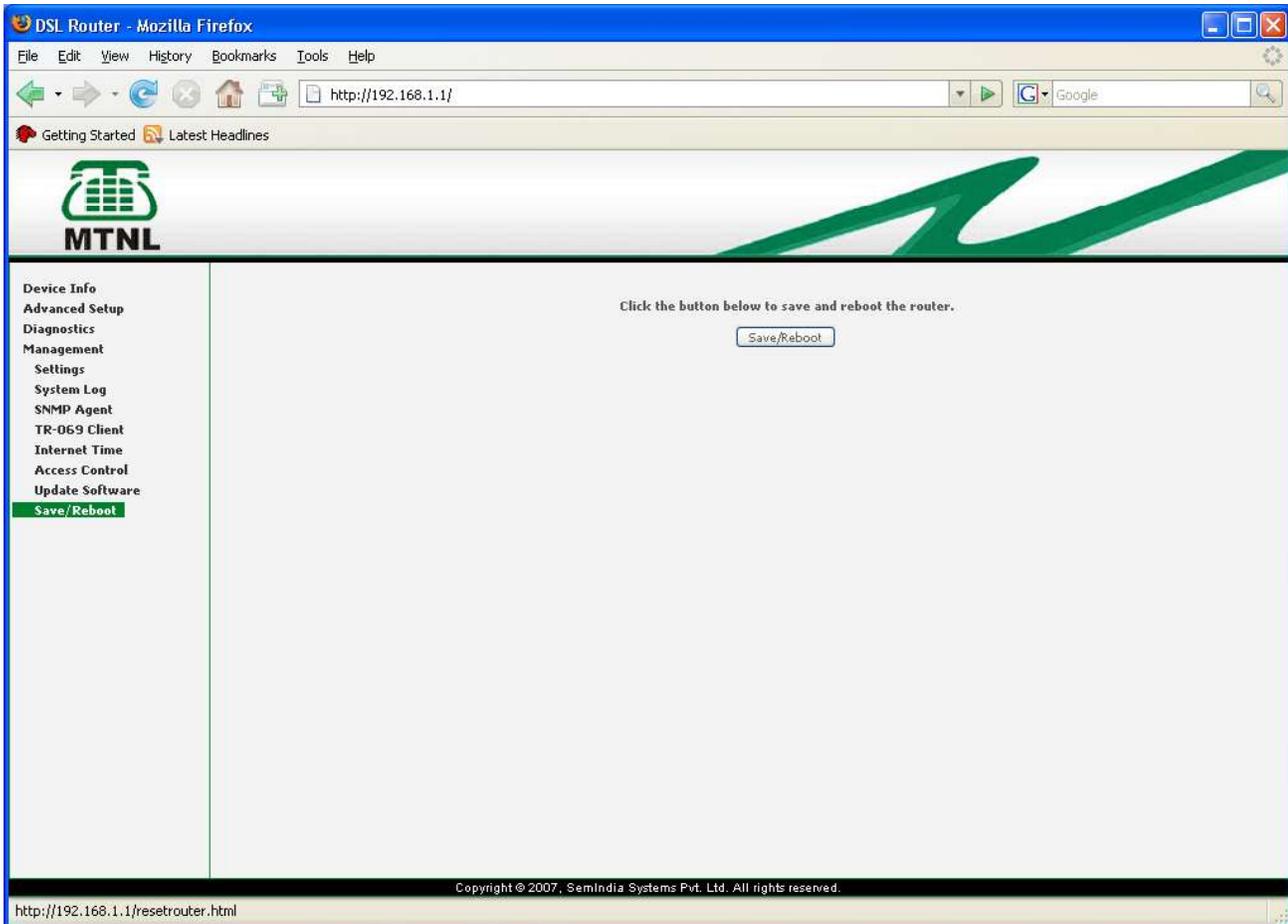
External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
1100	1100	TCP	1100	1100
1101	1101	TCP	1101	1101
		TCP		

Copyright © 2007, SemIndia Systems Pvt. Ltd. All rights reserved.

Done

5) Go to **Management** → **Save / Reboot**

6) Click on Save/Reboot



Now the configuration is over; just run the application and check the access...