



*Top Software Ltd.*

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# **Concise LAN Configuration Guide to TopSight Gateway**

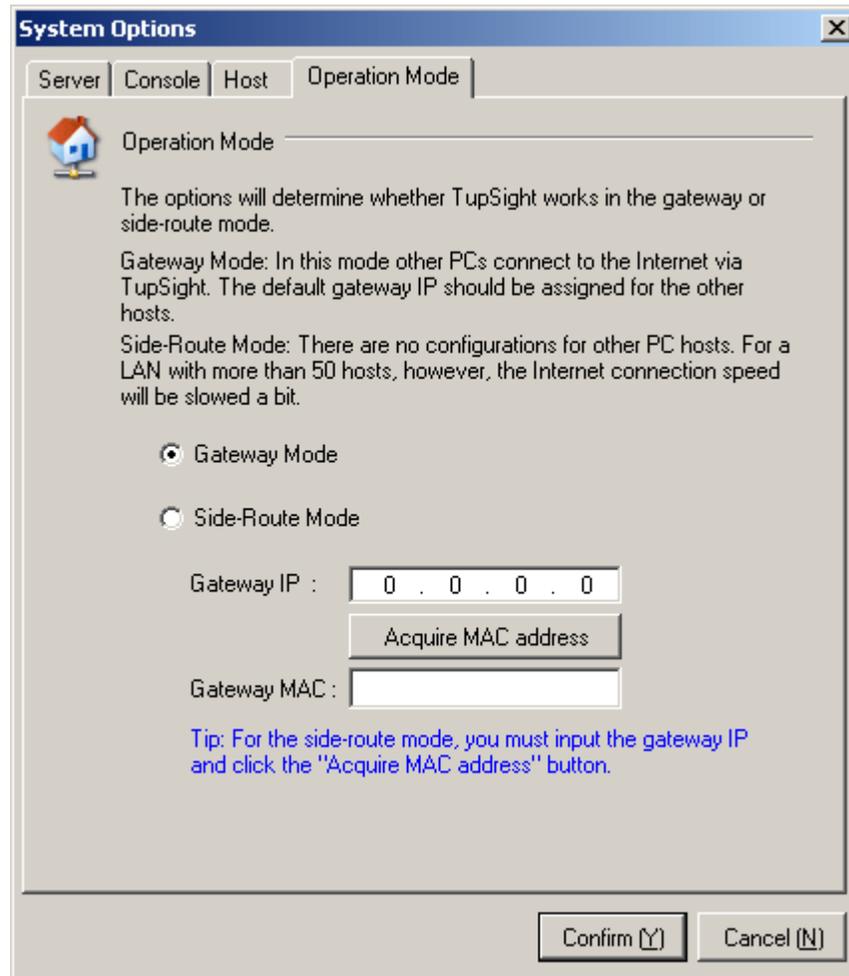
Last revised: August of 2006



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## 1. Brief Introduction to TopSight Gateway Configuration

Open the console, enter **Options**, and select **Operation Mode** as shown below:



By default, TopSight operates in the gateway mode, i.e., it acts as an Internet gateway for a LAN. The gateway mode is suggested since it is more reliable, especially for a relatively large computer network (with more than 50 hosts). The side-route mode, however, requires no additional LAN configurations, and is suitable for a monitoring and control task with a small number of PC hosts.

### The Gateway Mode (Recommended)

This is the default working mode of TupSight. When working in the gateway mode, TupSight will replace the previous gateway machine on the LAN to provide other PC hosts with Internet connection.

 Notes:

- (1) If there is a proxy server on the router-gatewayed LAN, TupSight should be installed on the host to replace the proxy program.
- (2) There is no need to input IP address to the right of the words **Gateway IP** in the gateway mode. The IP address of the PC hosting TupSight, however, must be assigned as the default gateway address for the other hosts on the LAN. To avoid the trivial tasks of correcting the gateway address one by one for other computers, you can simply use the existent gateway IP (usually belonging to a router), and assign an unoccupied IP to the router and configure in such a way that no other PCs can connect to the Internet directly via the router.

## 1. Step-by-Step Instructions to TupSight Gateway Configuration

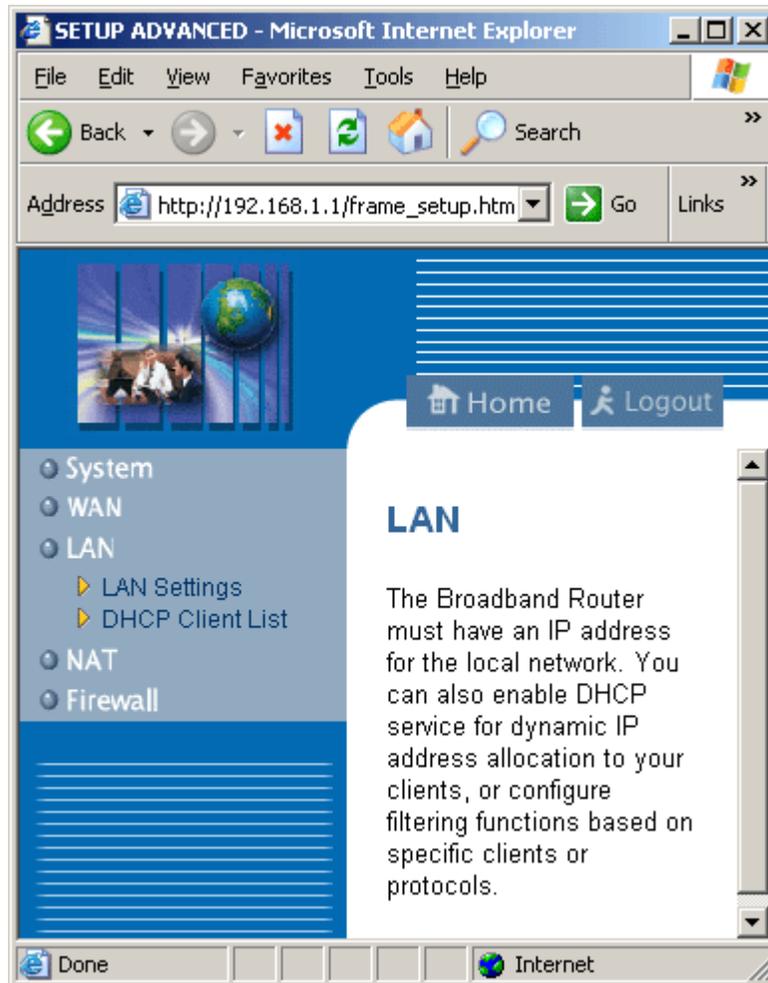
The simple idea behind this quick LAN configuration without reentering the default gateway IP on other computer hosts is as follows:

- (1) Assign the default gateway IP of the existent LAN (mostly belonging to a router) to the TupSight server, and accordingly change the IP of the router to an unoccupied one.
- (2) Configure the MAC filter so that only MAC addresses configured will have access to the Internet. All other client devices will get denied access.
- (3) Set TupSight in the gateway mode.

The following hands-on example describes the necessary steps using a Gigafast router.

**Step 1:** Choose an idle time since the re-arrangements will temporarily disrupt the network.

**Step 2:** Enter the router login screen: <http://192.168.1.1> (the default gateway IP of the existent LAN).



Open the “**LAN Settings**” entrance to show the following screen.

## LAN Settings

You can enable DHCP to dynamically allocate IP addresses to your client PCs.

|             |                                  |                                  |                                  |                                |
|-------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|
| IP Address  | <input type="text" value="192"/> | <input type="text" value="168"/> | <input type="text" value="1"/>   | <input type="text" value="1"/> |
| Subnet Mask | <input type="text" value="255"/> | <input type="text" value="255"/> | <input type="text" value="255"/> | <input type="text" value="0"/> |

Change the IP address to another available one, for example, [192.168.1.2](http://192.168.1.2).

If you click **Save** and the console will automatically exit.

**Step 3:** Reenter the router console by typing in <http://192.168.1.2>.

## LAN Settings

You can enable DHCP to dynamically allocate IP addresses to your client PCs.

|             |                                  |                                  |                                  |                                |
|-------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|
| IP Address  | <input type="text" value="192"/> | <input type="text" value="168"/> | <input type="text" value="1"/>   | <input type="text" value="2"/> |
| Subnet Mask | <input type="text" value="255"/> | <input type="text" value="255"/> | <input type="text" value="255"/> | <input type="text" value="0"/> |

**Step 4:** Open **Firewall**, enter **MAC Control**, input the allowed MAC addresses (TupSight and other VIPs), and then exit.

- System
- WAN
- LAN
- NAT
- Firewall
  - Block WAN Ping
  - Client Filtering
  - MAC Control
  - DMZ

## MAC Control

You can block certain client PCs accessing the Internet based on MAC addresses.

Enable MAC Address Control

Allow all to pass except those match the following MACs.

Deny all to pass except those match the following MACs.

MAC Address  -  -  -  -  -

DHCP Client

### MAC Address Control List

| MAC Address       |                                       |
|-------------------|---------------------------------------|
| 00-04-7D-34-75-4B | <input type="button" value="Delete"/> |

**Step 5:** Run the Tupsight console and open **Options** to select the gateway mode.

**System Options** ✕

Server
Console
Host
Operation Mode

**Operation Mode** \_\_\_\_\_

The options will determine whether Tupsight works in the gateway or side-route mode.

**Gateway Mode:** In this mode other PCs connect to the Internet via Tupsight. The default gateway IP should be assigned for the other hosts.

**Side-Route Mode:** There are no configurations for other PC hosts. For a LAN with more than 50 hosts, however, the Internet connection speed will be slowed a bit.

Gateway Mode

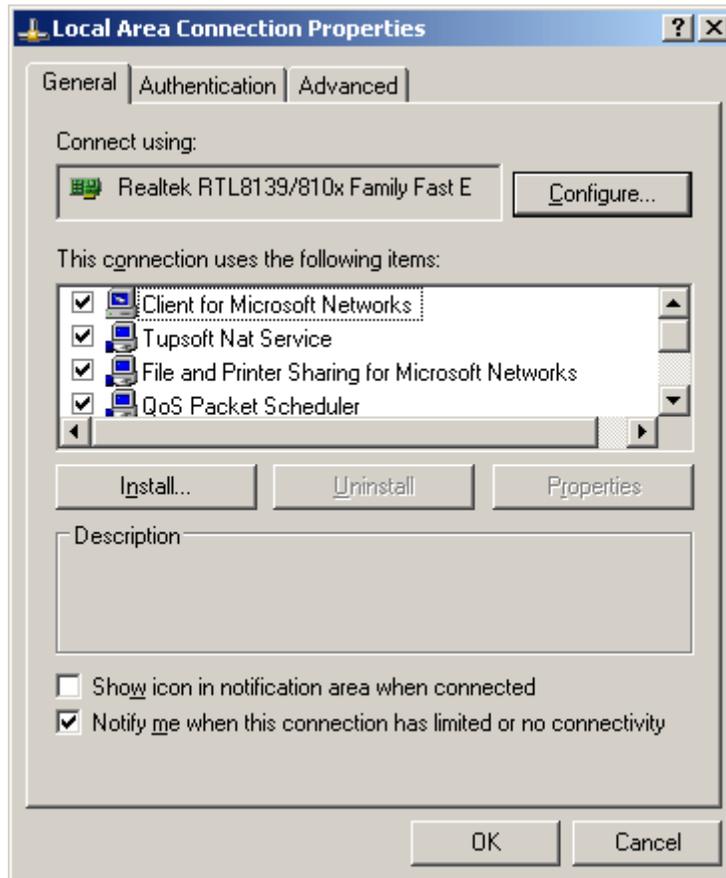
Side-Route Mode

Gateway IP :

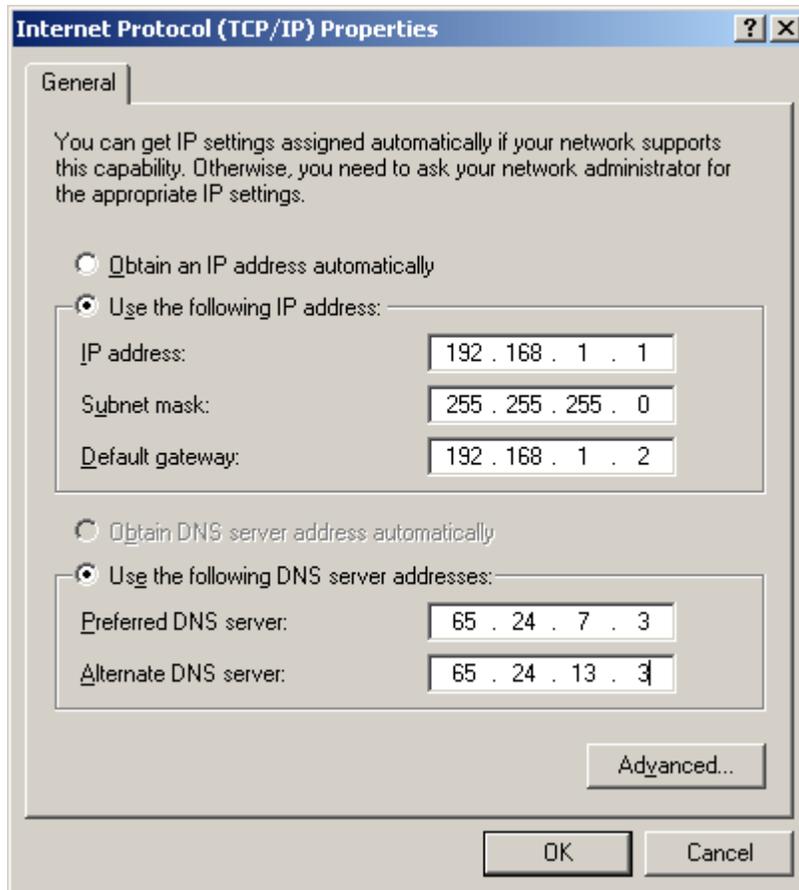
Gateway MAC :

Tip: For the side-route mode, you must input the gateway IP and click the "Acquire MAC address" button.

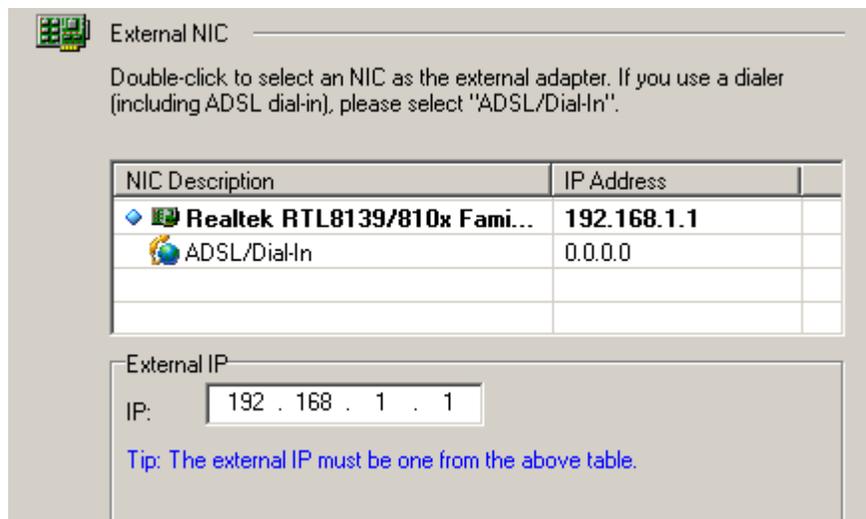
**Step 6:** Click on **Start, Control Panel, Network and Internet Connections,** and **Network Connections,** right-click **Local Area Connection,** select **Internet Protocol (TCP/IP),** and look up **Properties,**



**Step 7:** Input [192.168.1.1](#) to the right of **IP address** and [192.168.1.2](#) to the right of **Default gateway,** and click **OK.**



**Step 8:** Restart the host PC, logon the TopSight console, and make sure that the external IP in **Proxy Options** is [192.168.1.1](#).



This reaches the end of configuration. **Congratulations!**