



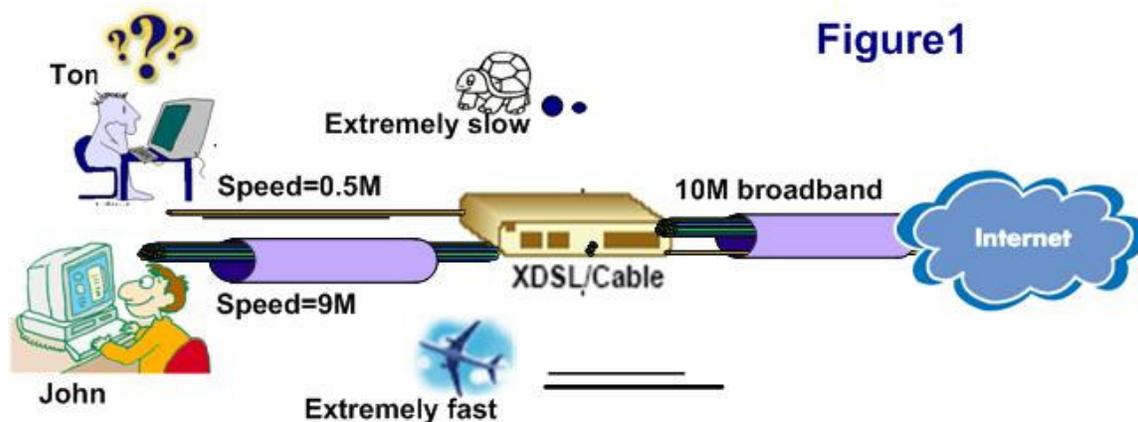
## How to assign fair broadband bandwidth to all PCs to counter the bandwidth abuse?

### 1. Introduction:

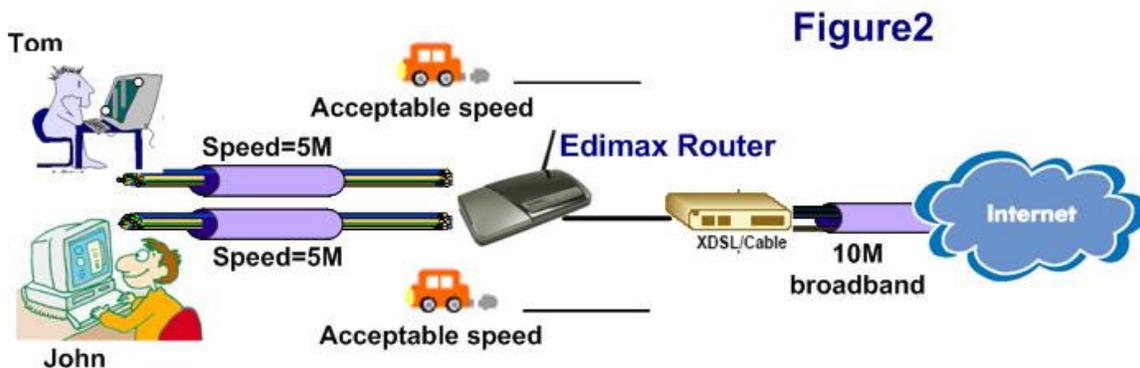
With the increasing proliferation of Internet broadband, more and more users are using Peer-to-Peer software like eMule, BitTorrent, Kazaa to share huge files, or watch TV, listen to the music via the Internet. These behaviors consume a lot of the Internet bandwidth and sometimes end up with affecting the smooth Internet access for the others.

Furthermore, do you ever receive complain about the slow Internet access from your employees or your family members even though you have paid more for upgrading your existing broadband. The problem may be very likely caused by some guys are depleting the available broadband. Yes, maybe one or two guys are happy sharing the huge file using Peer-to-Peer software, while others are suffering from the slow Internet access.

If this is the headache you suffer, like Tom has trouble accessing the Internet in the figure1, the QoS feature of Edimax broadband router is the prescription.



The other better scenario will be that there is a broadband router fairly allocate the 5Mbps bandwidth to Tom and John like the figure 2. This is how Edimax broadband router, BR-6204Wg will do for you. We will detail the configuration in the next section.



## 2. Configuration in the router for allocating bandwidth to users.

The configuration is not hard as you may expect. Just follow the steps as below: Step1 → Step2 → Step3.

Step1: Click the "Enable QoS".

● Step 1

The screenshot shows the router's configuration interface. On the left is a sidebar menu with options: System, WAN, LAN, Wireless, QoS, NAT, and Firewall. The 'QoS' option is selected. The main area shows the 'Enable QoS' checkbox checked. Below it is a table titled 'Current QoS Table' with the following structure:

Priority	Rule Name	Upload Bandwidth	Download Bandwidth	Select

Below the table are buttons for 'Add', 'Edit', 'Delete Selected', 'Delete All', 'Move Up', 'Move Down', and 'Reset'.

Step2: Allocate 5000Kbps (5M) bandwidth to the PC of Tom

● Step 2

The screenshot shows the configuration for a QoS rule titled 'For the PC of Tom'. The fields are as follows:

- Rule Name: For Tom
- Bandwidth: Download (direction), 5000 Kbps, MAX (limit)
- Local IP Address: 192.168.2.100
- Local Port Range: (empty)
- Remote IP Address: (empty)
- Remote Port Range: (empty)
- Traffic Type: None
- Protocol: TCP

Buttons for 'Save' and 'Reset' are at the bottom right.



Enter a rule name as you prefer.



Click the direction. Normally, the default value, “Download” is applicabe to your need.



Enter the maximum allowable bandwidth. (unit: Kbps)



Click the “Max”.



Enter the first IP assigned to the PC. The default is 192.168.2.100 that will be given to the first PC connected to the router.



Click “Save” after the value of 1 2 3 4 5 are entered.

Again, do the same to the PC of John.

### For the PC of John

Rule Name :	1	For John	
Bandwidth :	2	Download	3
		5000	4
		Kbps	MAX
Local IP Address :	5	192.168.2.101	
Local Port Range :			
Remote IP Address :			
Remote Port Range :			
Traffic Type :		None	
Protocol :		TCP	
		Save	Reset



Enter a rule name as you prefer.



Click the direction. Normally, the default value, “Download” is applicabe to your need.



Enter the maximum allowable bandwidth. (unit: Kbps)



Click the “Max”.



Enter the second IP assigned to the PC. The default is 192.168.2.101 that

will be given to the second PC connected to the router.

Click "Save" after the value of  are entered.

Step3 : Click "Apply" twice for making the settings effective

 Step 3

<input checked="" type="checkbox"/> Enable QoS				
Current QoS Table:				
Priority	Rule Name	Upload Bandwidth	Download Bandwidth	Select
1	For Tom	0	5000	<input type="checkbox"/>
2	For John	0	5000	<input type="checkbox"/>

Save setting successfully !

All the settings are completed. Now, feel free for surfing the Internet without worrying about the interruption by other bandwidth-devouring guy.

This guide presumed that only 2 users share the broadband of 10Mbps and achieve the goal of allocating 5Mbps equally to these 2 users, Tom and John as the figure 2. In the case of more users, It's suggested the maximum allowable bandwidth be scaled down around 2000Kbps.

