Q. How to monitor Vigor Router network traffic via PRTG

Introduction:

Traffic Grapher, an easy-to-use application, can monitor and classify the traffic among different time sections. It uses SNMP protocol to read the trend changes for long term traffic and offers information to network equipment to carry out the system management. Please visit the following web site for downloading PRTG free application: <u>http://download.paessler.com/download/prtg.zip</u>.

Install one Vigor router in your Intranet and monitor the traffic passing through the Vigor router with PRTG.

A. SNMP configuration in Vigor router (take Vigor 3300 as an example)

1. Click Advanced>>SNMP>>SNMP Community from the WUI of Vigor 3300.



2. Choose an index number and click **Edit** to access into SNMP Community configuration page.

1		
Community :	public	
Host/mask:	192.168.1.10	
Max Access :	Read only Read/Write	

- a. Type a name for the Community (the default setting is **Public**).
- b. Assign the IP address for the server in the field of Host/mask.

- c. Click **Read/Write** for **Max Access**.
- d. After finishing the settings, click Apply.

B. Set PRTG

- 1. Download PRTG application software and install into your computer.
- 2. Run the install program, the following screen will appear. Please choose **Use the Freeware Edition** and click **Next**.

	Welcome to PRTG Traffic Grapher . This easy-to-use bandwidth and asset monitoring application for computer networks is available in three editions, please choose the one that best fits your needs!
	Use the Freeware Edition
	This edition may be used for free for personal or commercial use . It is limited to monitoring only up to three devices/sensors and will always show this dialog upon startup.
	Run A Free Trial Of The Commercial Edition
0	Do you need more monitoring power than the Freeware Edition provides? The Trial Edition gives you unlimited use for 30 days so you can test whether one of the commercial editions is right for you.
0	Do you need more monitoring power than the Freeware Edition provides? The Trial Edition gives you unlimited use for 30 days so you can test whether one of the commercial editions is right for you. 30 Days left
0	Do you need more monitoring power than the Freeware Edition provides? The Trial Edition gives you unlimited use for 30 days so you can test whether one of the commercial editions is right for you. 30 Days left O Purchase or Register a Commercial Edition
	Do you need more monitoring power than the Freeware Edition provides? The Trial Edition gives you unlimited use for 30 days so you can test whether one of the commercial editions is right for you. 30 Days left Purchase or Register a Commercial Edition Choose this option to either buy a license now (starting at \$99.95) or to enter your license key that you
[™] PAESSLER	Do you need more monitoring power than the Freeware Edition provides? The Trial Edition gives you unlimited use for 30 days so you can test whether one of the commercial editions is right for you. 30 Days left Purchase or Register a Commercial Edition Choose this option to either buy a license now (starting at \$99.95) or to enter your license key that you have received upon your purchase (which will also hide this screen for the future).

3. Click the icon of PRTG Traffic Grapher.



3. In this welcome page, just click Next to go on.

Add Sensor Wizard	X
	Welcome to the Add Sensor Wizard This wizard will guide you step-by-step through the setup of new sensors for monitoring with PRTG Traffic Grapher. Creating new sensors involves three main steps: 1. Selecting the data acquisition technology
0	 Selecting the device/server and scanning it for available sensors Selecting the new sensors and choosing a group as well as an interval Note: If you want PRTG Traffic Grapher to scan your network automatically for SNMP enabled devices please use the <u>Automatic Network Discovery</u> to create SNMP based sensors. Please click "Next" to continue!
© PAESSLER	< <u>B</u> ack <u>Next ></u>

4. In this page, choose **SNMP** and click **Next** to go on.



5. When you see the following page, please choose **Standard Traffic Sensor** and click **Next**.

ld Sensor Wizard		×
SNMP Sensor Type Selection Please select the desired sensor type		(}
Standard Traffic Sensor		
SNMP Helper Sensor	All	
From OID/MIB Library	All	
Custom SNMP Sensor		
O Device Template	(No templates found)	
Help: Standard Traffic Sensor		
Choose this option to monitor the bandy	vidth going in and out of a network device. (Uses MIB-II Standard)	
	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

6. Now you can configure settings for **Device Selection**.

- a. Type a name (in this case, 3300V) in the field of Device Name/Alias.
- b. Type the IP address/DNS name for the network equipment that you want to monitor. The IP address

for Vigor3300V should be set with **192.168.1.1**.

- c. Choose V1 for SNMP Version.
- d. Set **161** for SNMP Port.
- e. Set **Public** for SNMP Community String (such string must be the same with SNMP setting in Vigor3300V)
- f. After finishing the settings, click **Next**.
- 7. Now, you can access into Sensor Selection screen. If you click **Connected**, PRTG will detect LAN and WAN ports in the connected Vigor3300V and check the sensor items automatically. However, if you want to choose LAN/WAN port for monitoring manually, simply check the boxes you want to monitor. Then, click **Next**.

Add Sensor Wizard	×
Sensor Selection Please select the sensors to create	
 #1 (Io), Software Loopback, Connected, 10000 kb/s, 32bit Counter #2 (eth0), Ethemet, Connected, 10000 kb/s, 32bit Counter #3 (eth1), Ethemet, Connected, 10000 kb/s, 32bit Counter #4 (teqI0), (Unknown type), Not Connected, 0 kb/s, 32bit Counter #5 (ipsec0), PPP, Not Connected, 0 kb/s, 32bit Counter #6 (ipsec1), Tunnel, Not Connected, 0 kb/s, 32bit Counter #7 (ipsec2), Tunnel, Not Connected, 0 kb/s, 32bit Counter #8 (ipsec3), Tunnel, Not Connected, 0 kb/s, 32bit Counter #9 (gre0), Tunnel, Not Connected, 0 kb/s, 32bit Counter #10 (ppp0), PPP, Not Connected, 0 kb/s, 32bit Counter 	All None Connected
Hide ports with existing sensors	
Select the value to monitor: Bandwidth	
Info:	
Connected to "Linux Draytek 2.4.20-br251 #8 Mon Feb 11 16:40:17 CST 2008 POLO" Name: Draytek Contact: Location:	•
< <u>B</u> ack <u>N</u> ext >	Cancel

8. Additional Settings will appear as follows. Check the box of Create New Subgroup and click Finish.

Add Sensor Wizard		×
Additional Settings Please select the sensor settings		P
Insert Into Sensorlist Below:	All Sensors	-
Create New Subgroup	3300V	
Scanning Interval [s]:	30 (10 to 60 seconds recommended)	
Tags (comma separated):		Select
2		
	< <u>B</u> ack <u>F</u> inish	Cancel

9. After finishing the configuration, you can monitor the network traffic via LAN/WAN of Vigor3300V. Such information is useful for network system administrator.

PRTG T	raffic Grapher - default.prtg			
File Edit	View Tags Extras Help	Order Upgrade		
Views	Sensors			View: Data of Selected Sensor(s)
	0 0 0 0			Graph Table: 24 Hours Table: 30 Days Table: 365 Days
Dete	Add Delete Edit Start Pause		1	Port 2 (eth0) on 3300V (192.168.1.1)
Data		Status Device	Interval	Live Graph - 60 Minutes - 30 sec Interval
	3300V			5,000
Events	⊟ 3300V			§ 3,000
$\left[\begin{array}{c} 0 \end{array} \right]$	Port 1 (lo) on 3300V (192.168.1.1 Port 2 (eth0) on 3300V (192.168.1.1	0 kbit/second 3300V (192.1 3.817 kbit/second 3300V (192.1	t 30 sec	₹ 2,000 ± 1,000
Sensors	Port 3 (eth1) on 3300V (192.168.	4,468 kbit/second 3300V (192.1	6 30 sec	
				16:40 16:50 17:00 17:10 17:20 17:30
Custom				5 sec Averages - 24 Hours
Custom				8
Uð				980
Reports				2
				18:00 20:00 22:00 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00
Browser				Hourly Averages - 30 Days
				3,000
				2,000 3,000
				1,000 1,000
				三月 12 三月 15 三月 18 三月 21 三月 24 三月 27 三月 30 四月 02 四月 05 四月 08
				Daily Averages - 365 Days
				2,500 72 2,000
				<u>§</u> 1,500
				± 1,000 500
	(•	Bandwidth Traffic IN Bandwidth Traffic OUT
				V6.2.0.907 Freeware Edition 339 refreshs 18% CPU Loac