



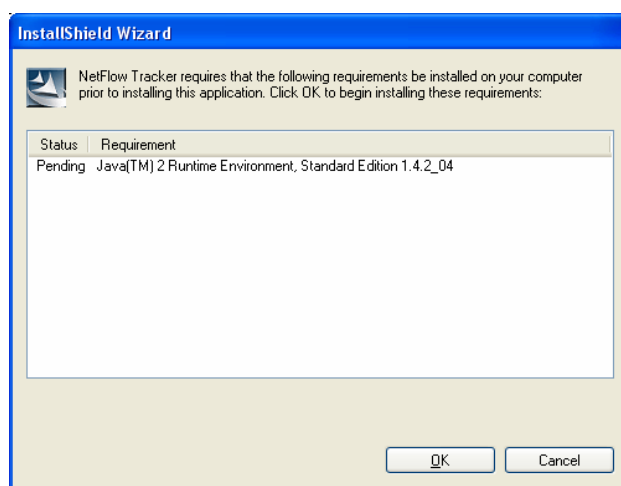
### Use Crannog's Netflow Tracker with PacketShaper

The purpose of this document is to describe the steps to install and configure PacketShaper to be used with Crannog's Netflow Tracker. PacketShaper is able to deliver Netflow-5 Packets to the Collector.

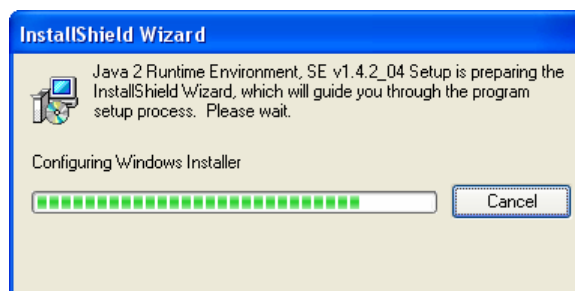
**NetFlow Tracker** is an extremely powerful new management tool from Crannog that provides a level of detail previously unavailable in any application of its type. Using Cisco's NetFlow technology (which is embedded in IOS in almost all routers and chassis based switches).

You can download a trail version of Crannog's Netflow Tracker at [www.crannog-software.com](http://www.crannog-software.com)

NetFlow Tracker 1.0.3a requires a minimum Java Version of 1.4.2\_04, which is proofed by Installation Routine.



It will start to install Java first, before continuing Netflow Installation



When done with Java Installation. Netflow Tracker Installation will continue

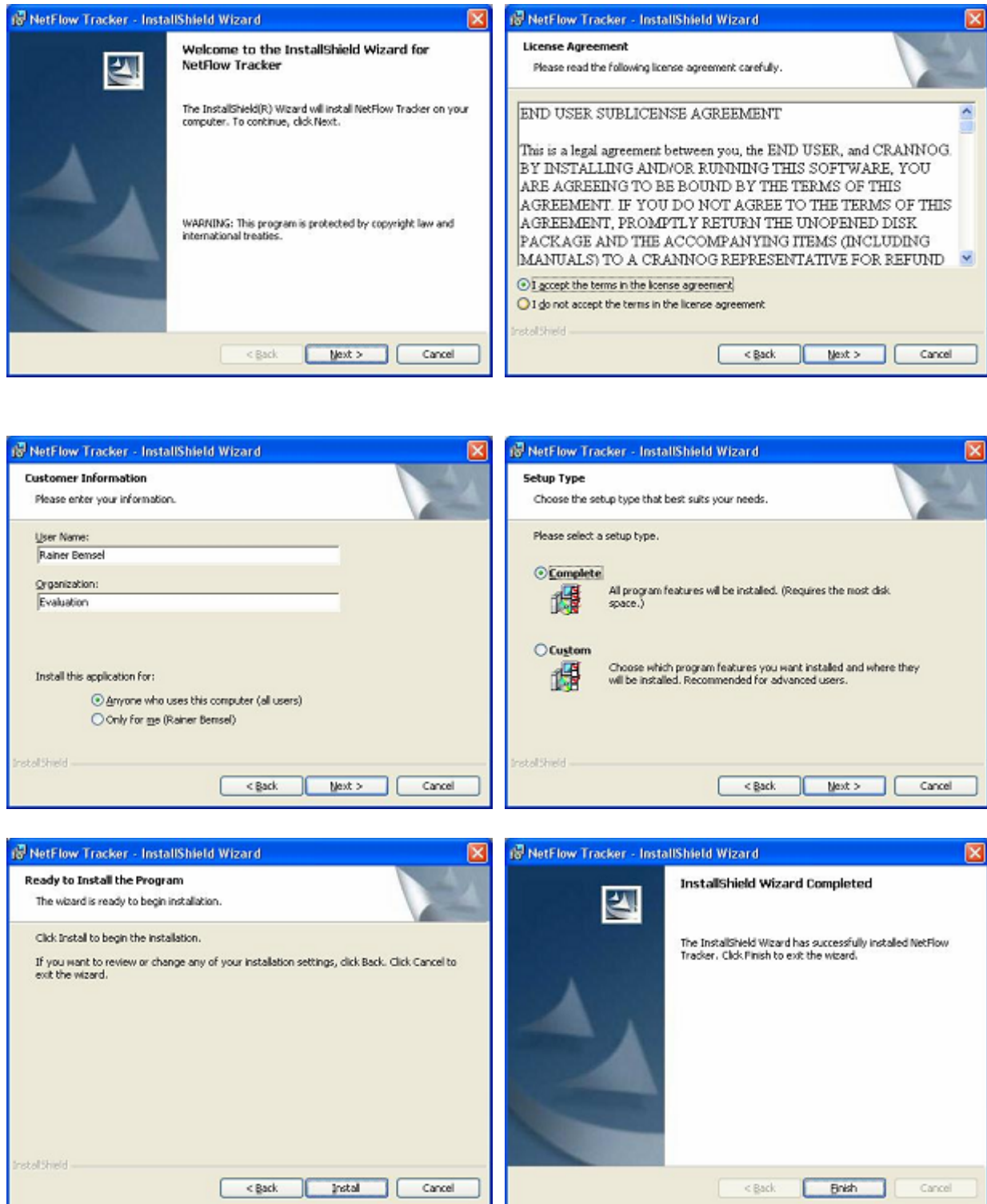


#### DISCLAIMER

This Technical Tip or TechNote is provided as information only. I cannot make any guarantee, either explicit or implied, as to its accuracy to specific system installations / configurations. Readers should consult each Vendor for further information or support.

Although I believe the information provided in this document to be accurate at the time of writing, I reserve the right to modify, update, retract or otherwise change the information contained within for any reason and without notice. This technote has been created after studying the material and / or practical evaluation by myself. All liability for use of the information presented here remains with the user.

Just follow the steps through the installation.



Run Netflow Tracker by Start – Programs – NetFlow Tracker – NetFlow Tracker



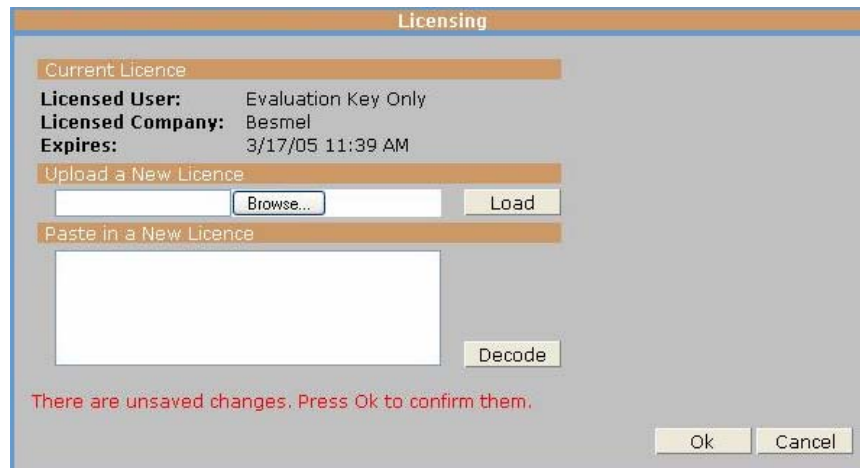
A Webbrowser will open and connect to local host. First thing to do is verifying the License, by clicking on **SETTINGS**



If this is a brand new installation, you will have a license for 24 hours included. I received a temp. License for a couple days, to evaluate Netflow-5 collector. This was provided in an email attachment. All to do is to load the file into licensing.



To upload the license, just browse to the directory and file and click on **LOAD**



The software must listen for NetFlow exports on at least one UDP port. You may wish to change this or have the software listen to more than one port. It is most efficient to use one port for each export-sending device. You may also wish to specify an address along with each port if the server has more than one.



You can use almost any unused port. This will be the port, PAcKetShaper will configured as well.

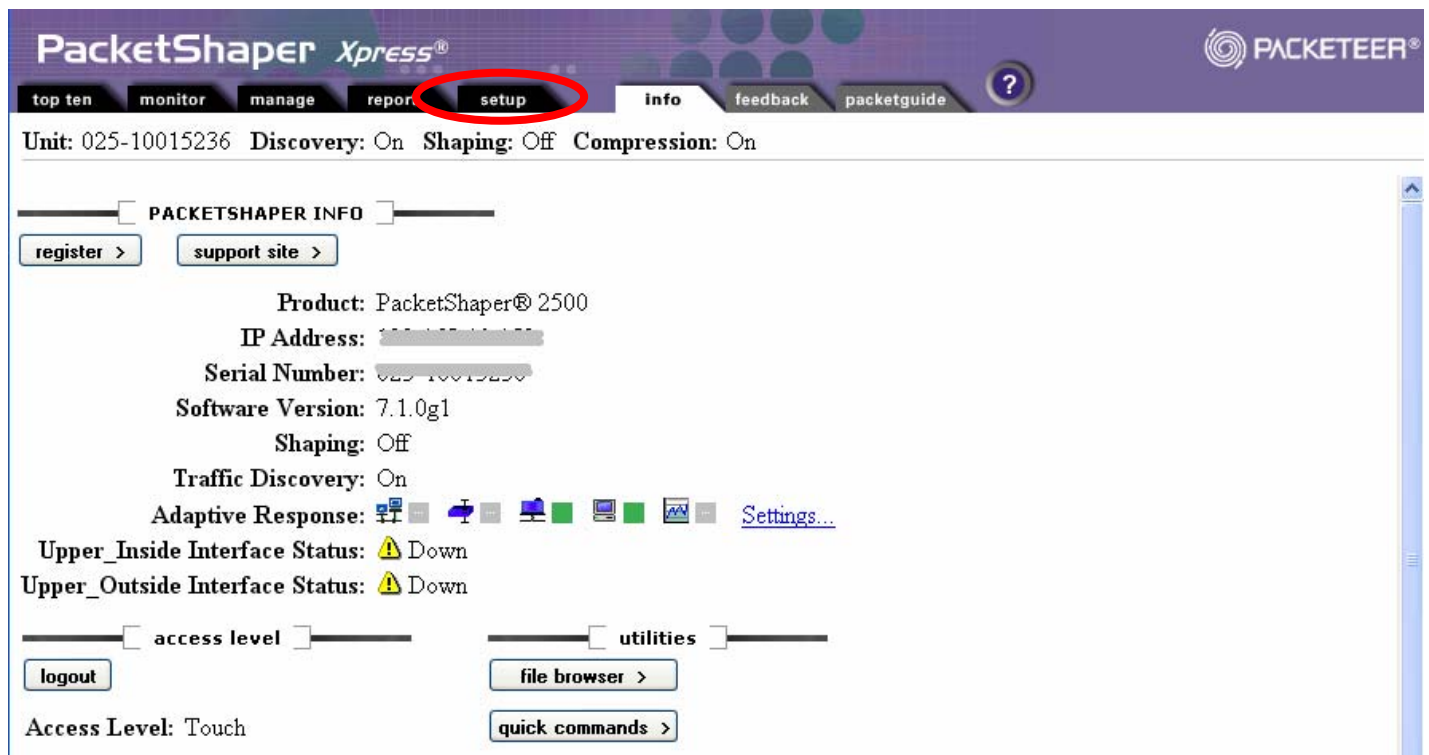
### Also SNMP Setting has to be verified or set properly

When a device sends NetFlow exports to the software it must be scanned to get the names and speeds of its interfaces. You must give at least one community string to be tried on each newly-encountered device. Since the communities are tried in the order they are set here the speed of a scan can be affected by changing the order. A device is scanned again if it reboots or if the software is restarted.



The image shows a 'SNMP Settings' dialog box. It contains a text area with instructions: 'When a device sends NetFlow exports to the software it must be scanned to get the names and speeds of its interfaces. You must give at least one community string to be tried on each newly-encountered device. Since the communities are tried in the order they are set here the speed of a scan can be affected by changing the order. A device is scanned again if it reboots or if the software is restarted. You can change the community string used to rescan an existing device on the [device configuration](#) page.' Below the text area is a list of community strings, currently containing 'public'. To the right of the list are buttons: 'Add', 'Remove', 'Up', and 'Down'. At the bottom left, there are fields for 'Timeout: 5000 ms' and 'Attempts: 3'. At the bottom right are 'Ok' and 'Cancel' buttons.

Next, connect to your PacketShaper and click on SETUP Tab



The image shows the 'PacketShaper Xpress' web interface. The 'setup' tab is selected and highlighted with a red circle. The interface displays various system information and configuration options. At the top, there are navigation tabs: 'top ten', 'monitor', 'manage', 'report', 'setup', 'info', 'feedback', and 'packetguide'. Below the tabs, the status is shown: 'Unit: 025-10015236', 'Discovery: On', 'Shaping: Off', and 'Compression: On'. The 'PACKETSHAPER INFO' section includes buttons for 'register >' and 'support site >'. It lists the following information: 'Product: PacketShaper® 2500', 'IP Address: [redacted]', 'Serial Number: 025-10015236', 'Software Version: 7.1.0g1', 'Shaping: Off', 'Traffic Discovery: On', and 'Adaptive Response: [icons]'. Below this, the status of interfaces is shown: 'Upper\_Inside Interface Status: ⚠ Down' and 'Upper\_Outside Interface Status: ⚠ Down'. The 'access level' section shows 'Access Level: Touch' and a 'logout' button. The 'utilities' section includes buttons for 'file browser >' and 'quick commands >'.



All you do is to tell the PacketShaper the IP Address of the Netflow-5 Collector and the Port, he listens to.

Unit: 025-10015236 Discovery: On Shaping: Off Compression: On

Choose Setup Page: flow detail records

flow detail record settings

apply changes ... reset form

	Collector IP	Port	Record Type	Enabled	
Collector 1	192.168.10.234	9888	NetFlow-5	on	clear
Collector 2				off	clear
Collector 3				off	clear
Collector 4				off	clear

default: 9800

Remember the Port? I configured this Port a few pages earlier. Don't forget to click on **APPLY CHANGES**

Now wait a few minutes and go back to Crannog's Netflow Collector. Under Devices, you should see a new entry of the PacketShaper, already sent a few packets with Netflow Data.

Device Settings

Click on a device name to edit its properties or those of its interfaces.

Device Name	Address
HomeShaper	192.168.10.152

Ok Refresh Cancel

When you click on the Device Name, you'll get some basic information, regarding SNMP Settings.

Device HomeShaper (192.168.10.152)

By default all devices are SNMP devices. It is highly recommended that you enable SNMP on your device, and allow the monitor to query it. However, if this is not possible, you can change the SNMP Settings so that the device does not use SNMP. This means the device will create an interface for each ifIndex that it encounters, but you will have to manually set the name, speed, etc. You can also choose to keep the current settings, which mean that no further interfaces will be created, nor will the device create more interfaces if it encounters an unknown ifIndex. With any of these options, you can still manually scan the device using the button on this page.

Device Name: HomeShaper

SNMP Mode: Use SNMP

SNMP Version: SNMPv1

SNMP Community: public

Interface	Description	Inward Speed (bps)	Outward Speed (bps)	Hidden
Inside (ethernetCsmacd)		100000000	100000000	<input type="checkbox"/>
Outside (ethernetCsmacd)		100000000	100000000	<input type="checkbox"/>
Upper_Inside (ethernetCsmacd)		100000000	100000000	<input type="checkbox"/>
Upper_Outside (ethernetCsmacd)		100000000	100000000	<input type="checkbox"/>

Ok Delete Rescan

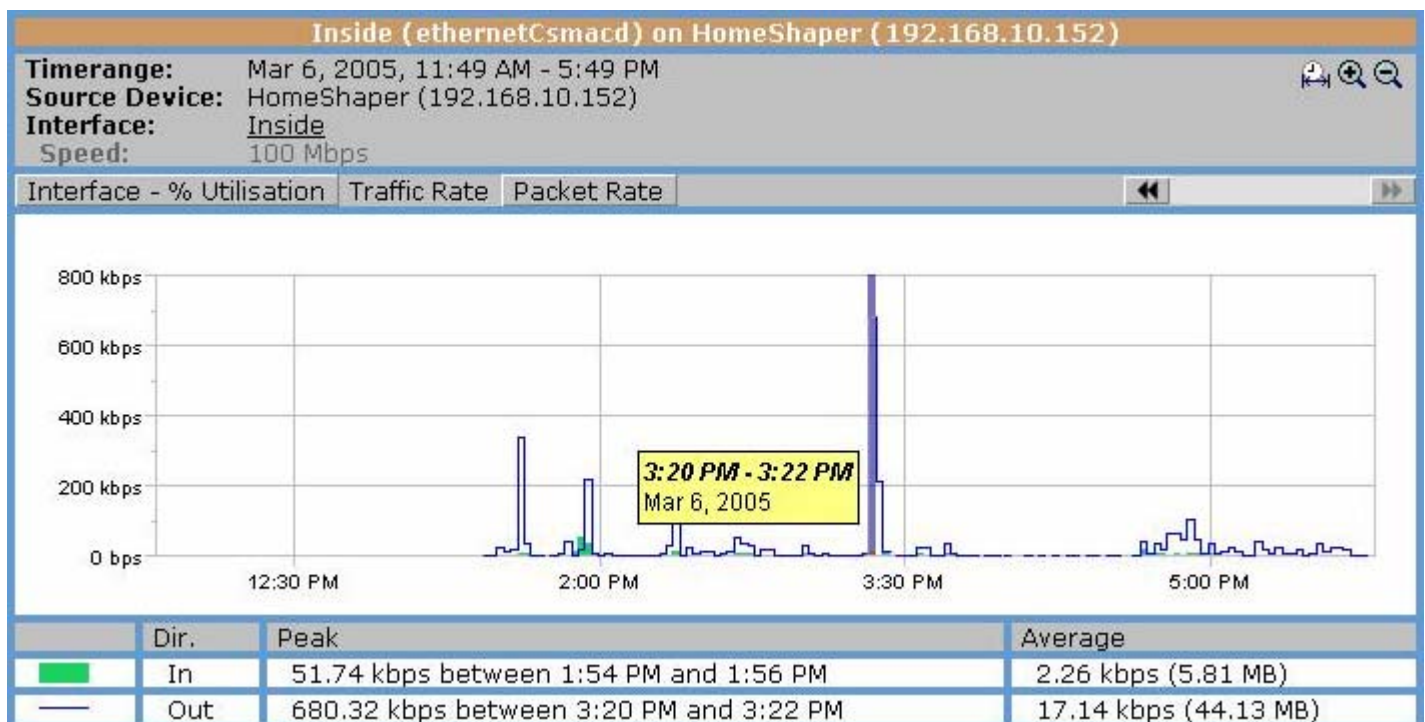
Next, go back to the HOME page and click on DEVICES....



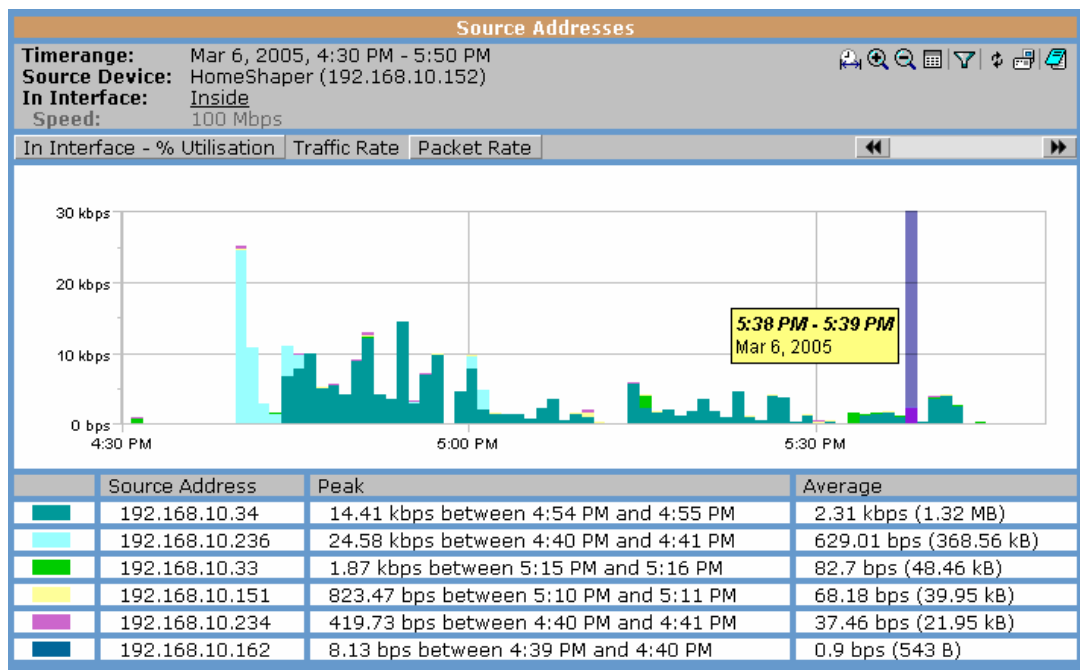
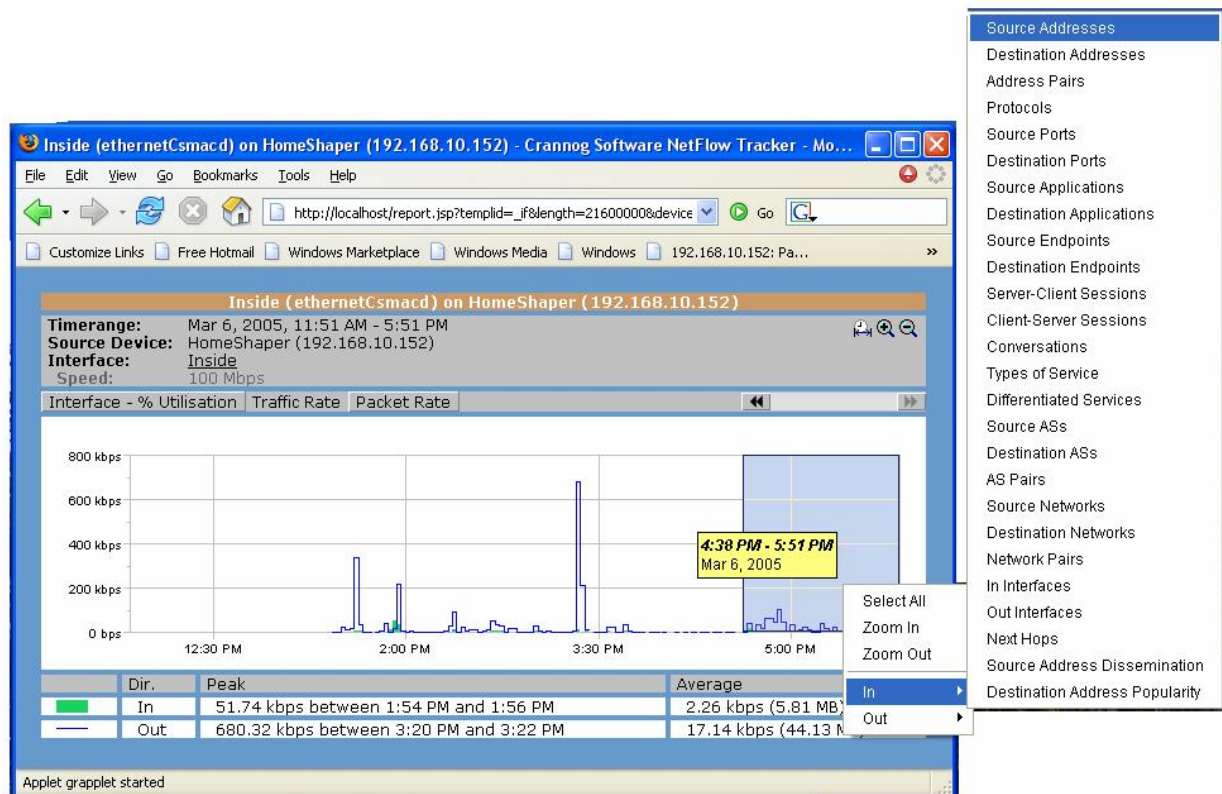
... and Device Name, where you can see the first stats, provided by Netflow-5 Data

Interfaces on HomeShaper (192.168.10.152)								
<b>Timerange:</b> Mar 6, 2005, 7:36 AM - 1:36 PM <b>Source Device:</b> HomeShaper (192.168.10.152)								
Interface	Description	% Utilisation	Peak Traffic In	Peak Traffic Out	Rel. Traffic	Peak Packets In	Peak Packets Out	Rel. Packets
Inside	connected to the LAN		1.5 kbps	23.49 kbps		2.14 /s	3.11 /s	
Outside	connected to the WAN		23.49 kbps	1.5 kbps		3.11 /s	2.14 /s	
Upper Inside	unused		0 bps	0 bps		0 /s	0 /s	
Upper Outside	unused		0 bps	0 bps		0 /s	0 /s	

Now, it's the time to wait a few hours and dig deeper into the possibilities of gaining information out of the data.



What you also can do is highlight a range, do a right click on mouse and choose from different views.



This is just one example you can use. I hope this has give a quick impression on what's possible.