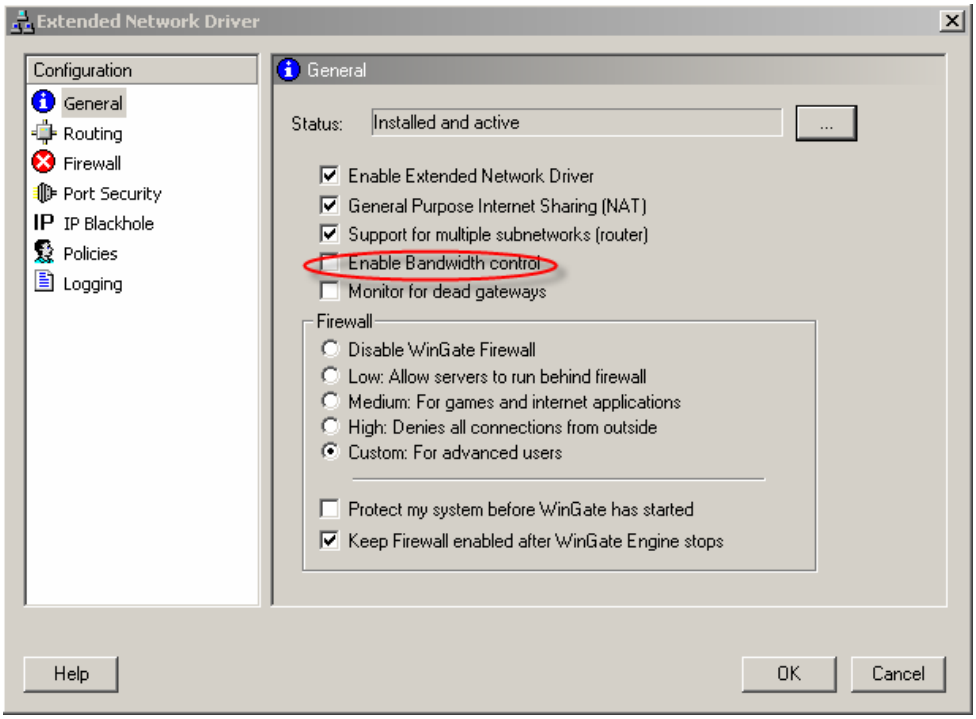
Bandwidth Control in WinGate

Bandwidth control allows you to limit or prioritize traffic flows through gateway machines. Traditionally, bandwidth throttling is organized as a queuing discipline that delays or drops packets originating from a certain client or destined to the specified consumer, when the amount of traffic being pumped through reaches well-specified threshold.
Wingate bandwidth throttling utilizes the packet level approach. The driver examines all packets it intercepts and makes a decision whether the packet is to be delayed/queued or delivered immediately.

Activating Bandwidth control

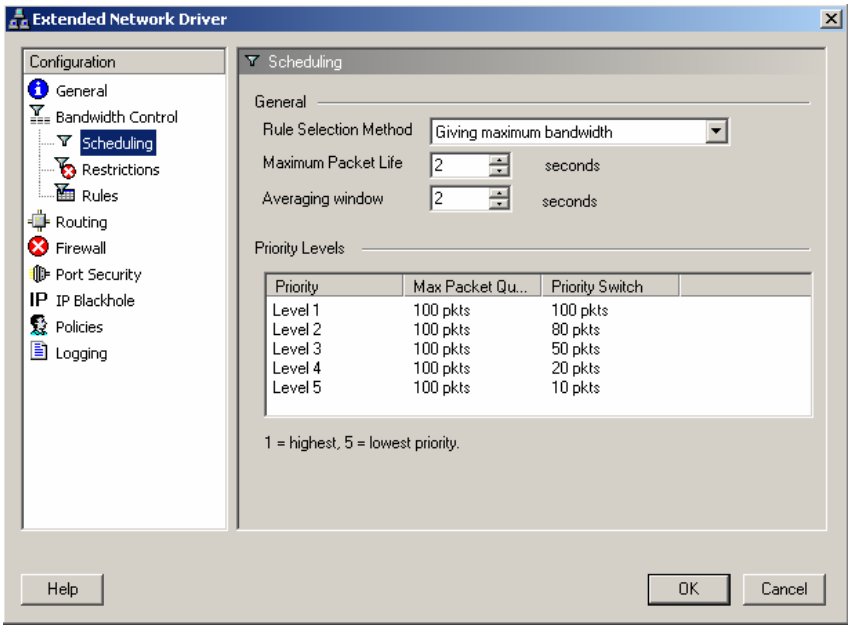
Wingate bandwidth throttling is activated by ticking the **Enable Bandwidth control** checkbox on the ENS General properties page



Once ticked, the bandwith throttling configuration window will appear.

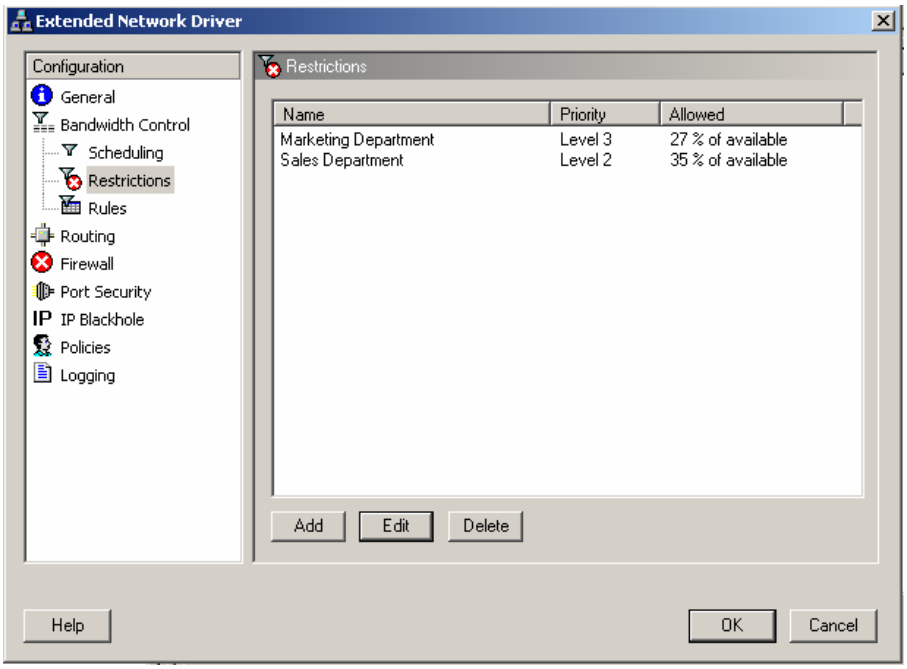
Scheduling

The **Bandwidth Scheduling** configuration is where you can set how bandwidth is handled when there have been more then one rule placed on particular traffic.

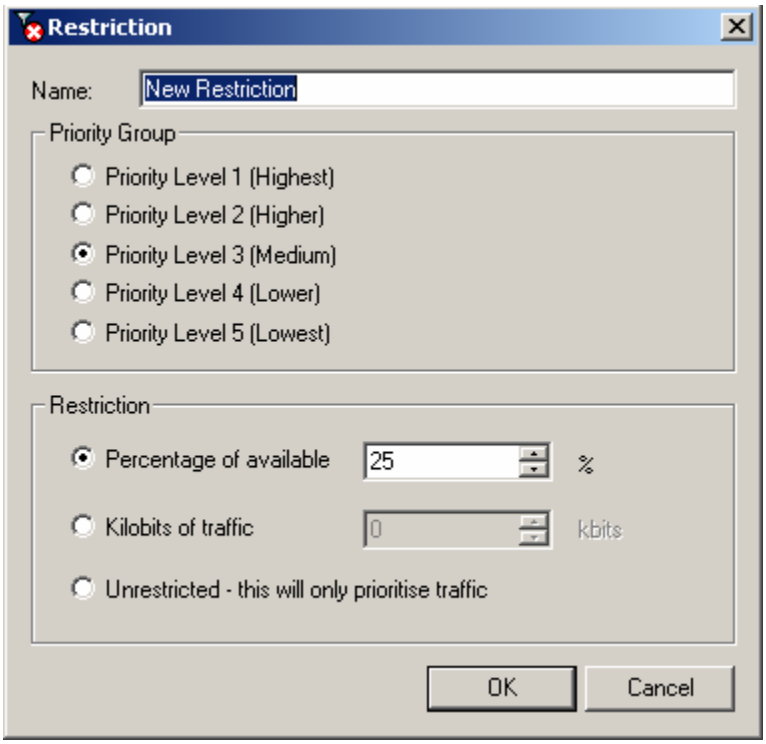


Restrictions

From the **Bandwidth Restrictions** configuration you can create restriction rules for certain traffic and prioritize how the restriction is handled against other bandwidth rules that may have been created.



Click **Add** to configure a new restriction. This will bring up the **Restriction properties window.**



Name

Enter a name for the restriction.

Priority Group

This sets how this restriction will be handled (what priority it will be given in relation to other bandwidth rules).

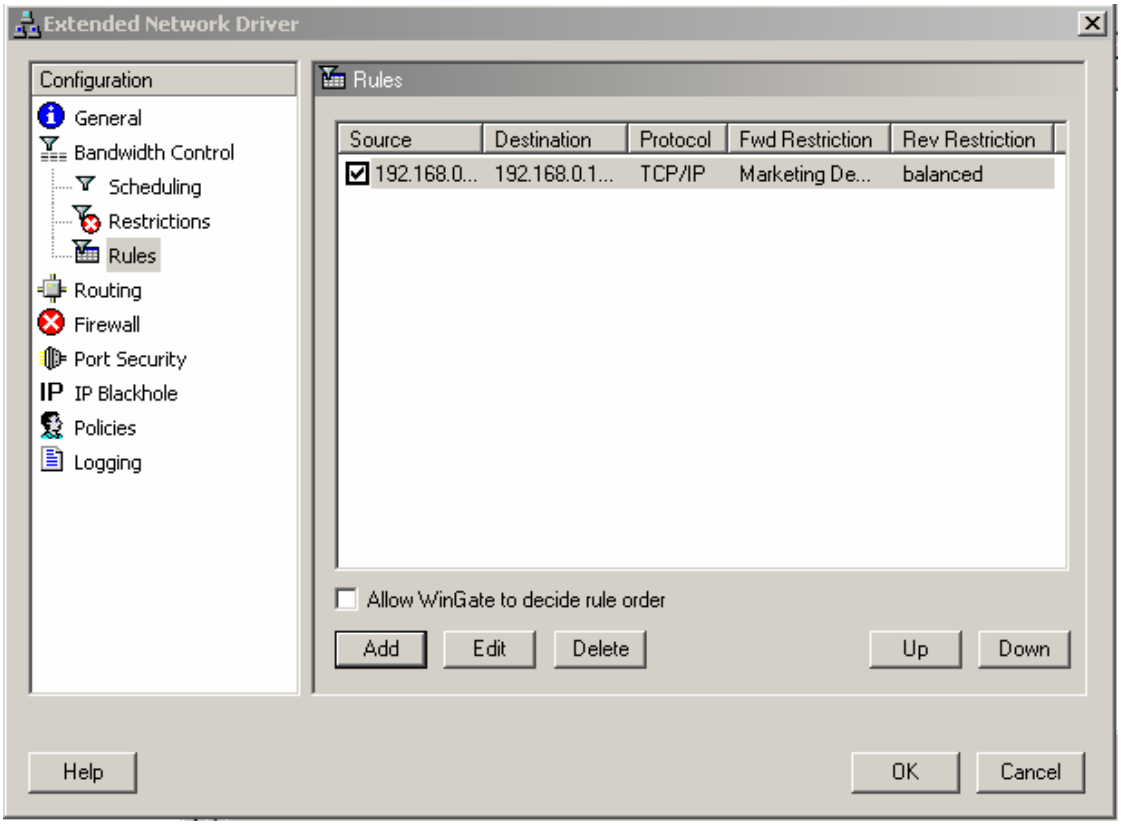
Restriction

This is the actual restriction rule which can be:

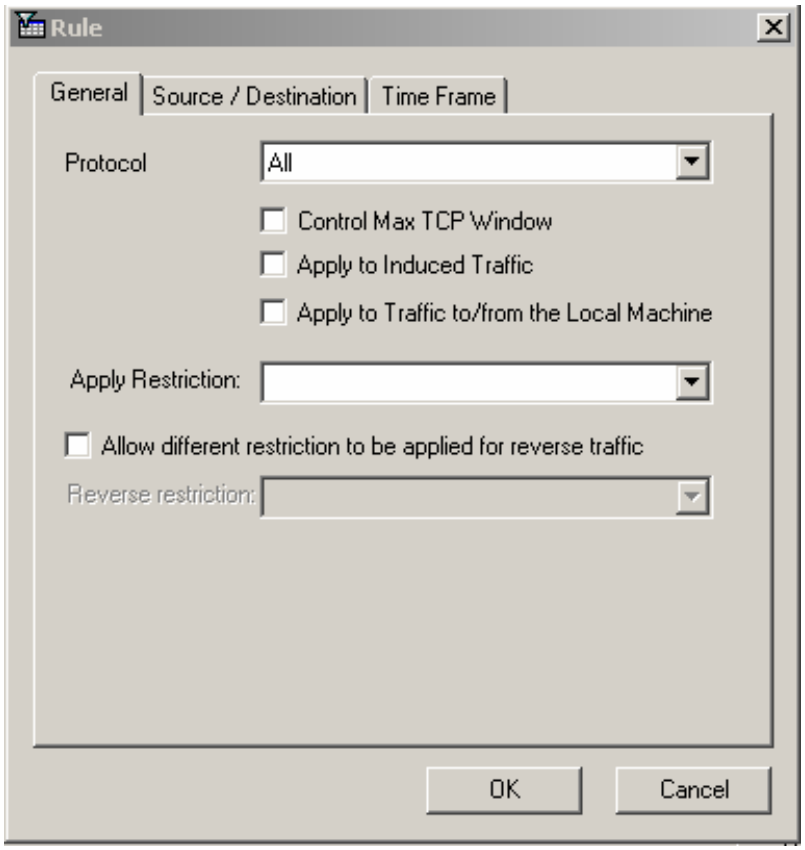
- **Percentage of available**
  Percentage of available bandwidth.
- **Kilobits**
  Restrict by actual Kilobits.
- **Unrestricted**
  This will only prioritize traffic.

Rules

The **Bandwidth Rules** screen is where you create the rules that will apply the bandwidth restriction



Click **Add** to create a new rule. This will bring up the **Rule Properties Window** .



General

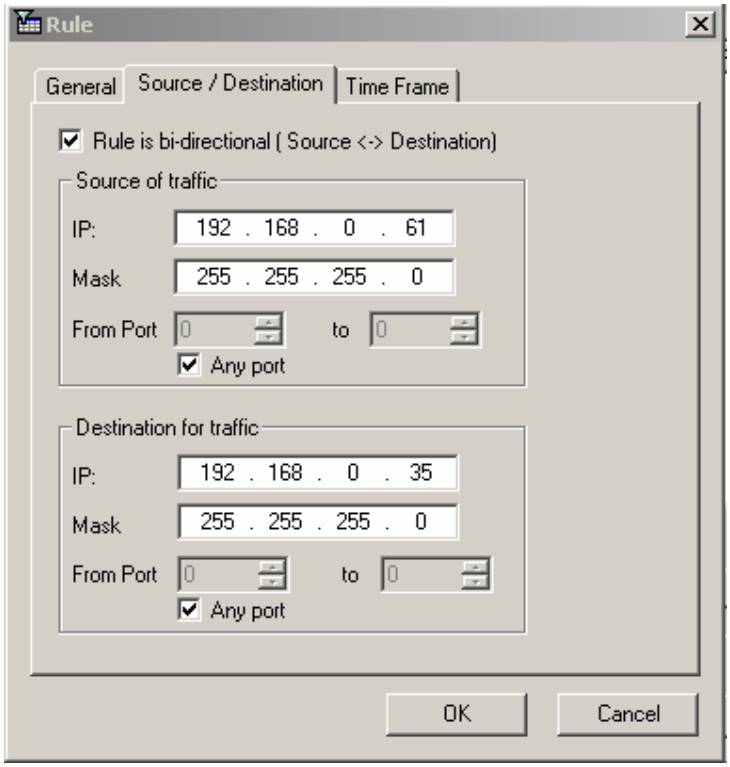
On the General tab you can select various general options for the rule.

Protocol
You can configure bandwidth throttling rules based on either TCP or UDP or both. Various options, such as controlling of maximum TCP window size, including Induced traffic (secondary traffic in the TCP/UDP connections e.g. Ftp Control channels) are available.

Apply Restriction
This implements the restriction rule configured under the restriction tab.

Allow restriction for reverse traffic
Allows you to specify a restriction for Reverse traffic.

Source Destination



Here you can define the source and destination IP address to be affected by the bandwidth rule.

Time Frame

Here you can set the time and duration of the Bandwidth rule within various time options.