

## Twin WAN Router Setup Tutorials

By WINS International LLC, dba XiNCOM – Client Care Center

# Basic Configuration Guide – Load Balancing Setup

## Configuring your Twin WAN device to load balance two broadband connections

You can setup your Twin WAN device to load balance two broadband connections for your network. The Twin WAN device supports four different methods to load balance your broadband connections. The following provides a brief description of each method and its recommended use.

### Bytes rx+tx

By monitoring real time speed of both WAN connections, the Twin WAN device will establish new sessions on the WAN port with the lower speed. Use this method if there is a fairly even speed on both lines and would like to benefit the most from the speed available.

### Packets rx+tx

Same as above but in this case, the Twin WAN device monitors the packet flow and tries to maintain an even number of packets. Use this method when transmitting a lot of small packets, such as web browsing and Usenet. This helps you maintain the best latency.

### Sessions Established

The Twin WAN device tries to maintain an even number of sessions on each WAN port by looking at the current amount of sessions currently established. This is a very general setting only to be used if you have similar types of connections (Cable and Cable, DSL and DSL) to promote good Internet traffic.

### IP Addresses

Load Balancing traffic by IP Addresses is the recommended method for doing specific online tasks that require the same IP Address to be loosely binded to a specific WAN port. Select this method when using real time software applications that require traffic to be sent and received from the same IP source. (ex. secure online banking, day trading software, etc.)

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### Step 1 – Enabling the Load Balancing service

Log into your Twin WAN device. In the navigation bar of the console interface, click on *Advanced Port* and select the *Load Balance* sub-menu. The *Load Balance* console will display the load balancing parameters and the NAT/Interface statistics for the Twin WAN device. Under *Load Balance Configuration* click on the enable check box and select the appropriate load balancing method for your network: Bytes, Packets, Sessions, or IP Addresses.

### Step 2 – Setting the load share for WAN 1

You can specify the percentage of how much networking traffic you want your broadband connection on WAN 1 to handle. Input a percentage value (default: 50%) in the *Loading Share on WAN 1* text field. Click on the *Update* button to apply the new percentage value.

The *Load Share for WAN 1* percentage value will set the average traffic amount for the Twin WAN device to handle on WAN 1. The actual NAT Statistics for load balancing may differ from the average value at any particular time due to dynamic bandwidth fluctuations in your LAN. The Twin WAN device consistently monitors passing network traffic to provide an aggregated average of the percentage value set on WAN 1.

#### Examples:

Load Share for WAN 1: 20% (WAN 2: 80%)

Load Share for WAN 1: 50% (WAN 2: 50%)

Load Share for WAN 1: 70% (WAN 2: 30%)

#### NOTE:

*The Load Share on WAN 1 setting does not act as a "throttle" control for the load balancing service. Setting your load share to 100% will have all network traffic to be diverted to WAN 1 only.*