PacketManager

As a corporate IT manager or VoIP provider, you are concerned about performance, reliability and cost. You have taken the first step by having diverse connections, but are you using them as effectively as possible?

PacketManager is used for site-to-site communications to:

- Virtually eliminate packet loss
- Provide hot failover without disruption
- Reduce latency by automatically selecting the best path
- Replace costly dedicated point-to-point T1/E1, frame relay, IPLC or fiber lines
- Reduce VoIP bandwidth consumption by half

PacketManager can also be used for low overhead tunneling and load balancing. Installation is easy and takes less than an hour.

PacketManager can also be used with a virtual private network and it has been tested successfully with the most popular VPN solutions, including Cisco, CheckPoint, and Symantec, and with applications such as mainframe terminal emulation, Citrix, database, and CRM.

Corporate Networks

The information you send across the WAN is essential to the business you support. It needs to arrive on time and without packet loss. Network outages are not an option.

You could, of course, use Border Gateway Protocol. But BGP is difficult and time-consuming to implement and operate. When there is an outage, BGP can interrupt the flow of data for as long as 30 minutes. Also, BGP is not performance-based; a connection is either up or down. With **PacketManager** your data flows without interruption as long as one connection is up.

Or you could use such solutions as IP link controllers or load balancers. But these solutions have limited functionality and are several times more expensive than **PacketManager**.

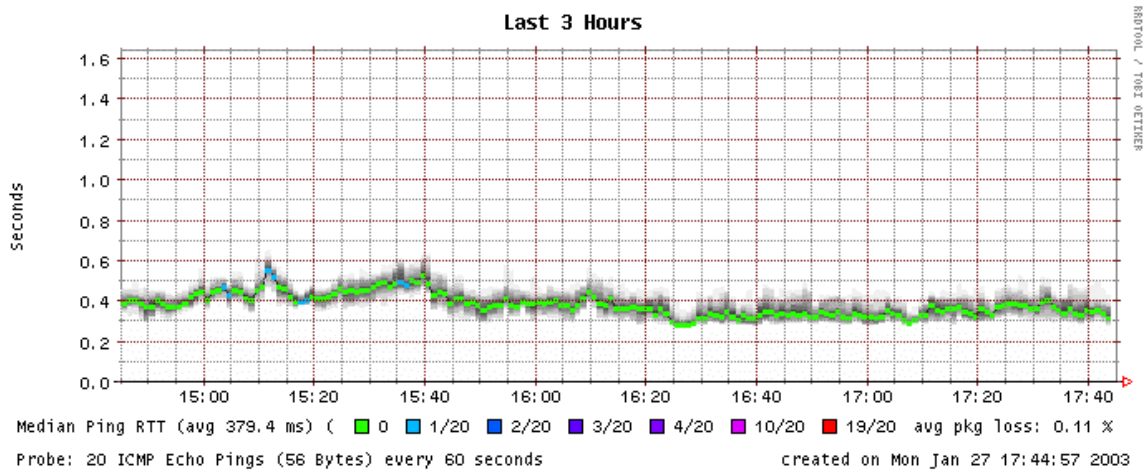
VoIP Service Providers

If you offer VoIP to businesses, you know that price alone will not ensure customer loyalty. Voice communication is the life-blood of business, so call quality must be reliable and as close to toll quality as possible.

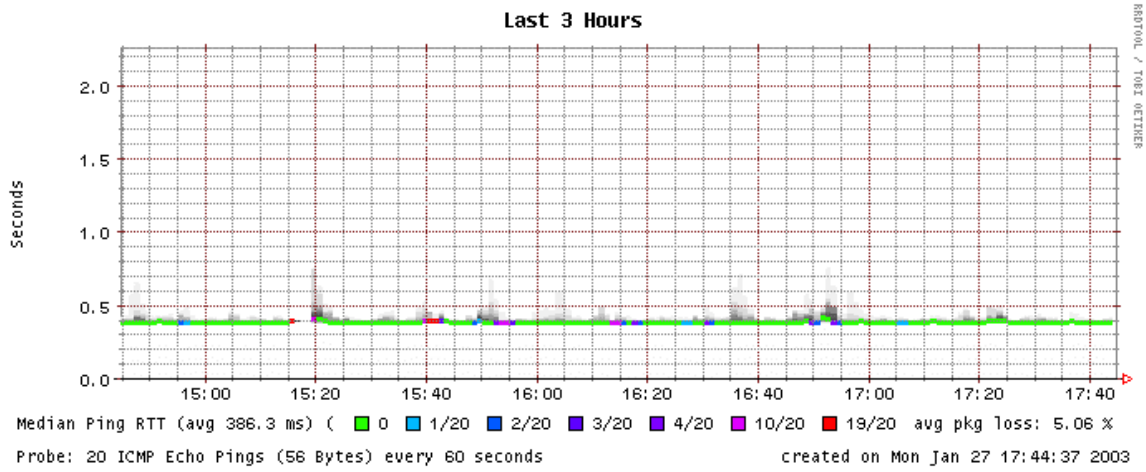
PacketManager was developed in a real-world VoIP environment. You can hear the quality improvement as soon as you install it.

PacketManager in Operation

The following show the actual measured performance of connections with and without **PacketManager**. The first two are graphs of different ISP connections (Qwest and AT&T) between India and the U.S. without **PacketManager**.

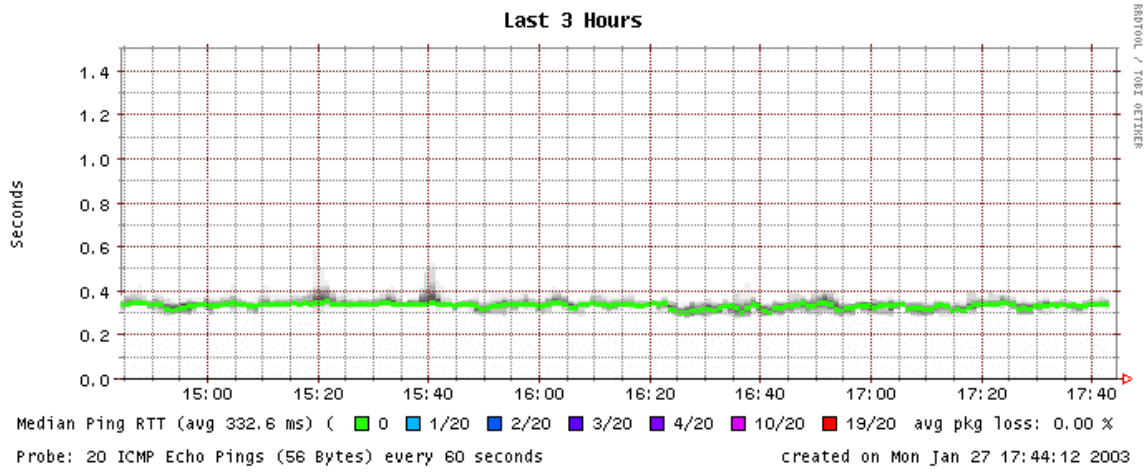


The above Qwest connection shows a large variance in latency from between 0.1 and 0.6 seconds, with packet losses of 0.11%



With this AT&T connection, latency is much more consistent, but packet losses (red bands) are very large, averaging over 5%.

The following shows a connection through the same ISPs using **PacketManager**:



As you can see, **PacketManager** reduced latency fluctuations significantly while eliminating measurable packet loss.

Before **PacketManager**, the Qwest connection had an average latency of 386 ms, while AT&T averaged 379 ms. **PacketManager** showed average latency of only 333 ms – 13% lower than the lower of the two ISPs, proving that with **PacketManager** each packet automatically uses the fastest path available.

Imagine what this kind of performance improvement could mean to your network!

How PacketManager Works

PacketManager is a next generation IP services device based on the Linux OS. With diverse connections to the WAN, **PacketManager** uses sophisticated, proprietary algorithms to eliminate packet loss and the impact of network performance on packet arrival time variation (jitter).

PacketManager also features a sophisticated lossless VoIP header compression mechanism. This eliminates redundant header information, achieving tremendous bandwidth saving without compromising quality even a single bit.

PacketManager currently supports many-to-many for both packet management and VoIP header compression.

PacketManager in Your Network

PacketManager features external interfaces through Ethernet, so it can be made redundant and interface with the corporate LAN. It can use any type of underlying IP WAN connectivity, including public Internet, frame relay, or leased lines.

PacketManager – Installation

PacketManager has an intuitive browser-based configuration and monitoring GUI, which reduces network integration time from days to hours.