



# Virtual Office - LinkShaper

Velocity Telephone, Inc.

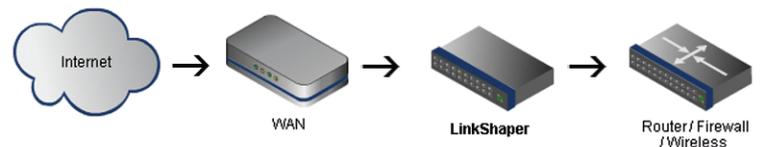
LinkShaper is a traffic shaping appliance which can help prioritize audio traffic over other data traffic on a "best effort" Internet connection.

Traffic shaping allows better voice quality of service than achieved by simply allowing "best effort" connections to discard audio packets from your voice calls along with other data traffic when congestion occurs. By rate-limiting your data slightly below your full capacity, LinkShaper allows audio packets to travel through your Internet connection with less packet loss, resulting in better audio quality and more reliable call connection than you would otherwise receive.

It is important to note that traffic shaping is not as effective as the full audio prioritization that is provided with other Velocity products such as our data T1s or fiber connections. Velocity has multiple products available which provide full audio prioritization for the most demanding enterprise needs. These products guarantee voice traffic is always delivered before other data traffic under all circumstances. Traffic shaping provides a similar experience at a much lower cost but is run over a "best effort" Internet connection, such as DSL or cable which does not have the high uptime guarantees nor full audio prioritization that other Velocity products are able to provide.

LinkShaper traffic shaping is an inexpensive way to run data and voice reliably over a "best effort" connection at a fraction of the cost of other solutions.

## Network Diagram Showing the Placement of LinkShaper:



## Requirements and Limitations of Service:

LinkShaper must be inserted between the WAN (Internet) connection and *all* LAN traffic. This means LinkShaper must be inserted *between* the WAN connection and any router, firewall or wireless access points used at the location. Combined modem/router appliances typically will not work in this configuration and may need to be replaced with a standalone modem and router for LinkShaper to be used.

LinkShaper must reduce your effective throughput slightly in order to insure audio can take precedence over other data on a "best effort" connection.

For LinkShaper to be effective the underlying data connection must have reliable throughput. If the underlying connection's throughput changes over time due to unreliable train up speeds, LinkShaper will be significantly less effective. Stable overall throughput is required for consistent effective traffic shaping.



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