



Acceleration Module for PacketShaper® Enhanced WAN Application Performance

Reclaim Wasted Bandwidth

Large file transfers, database synchronizations and Web-based versions of applications like SAP and Oracle often experience performance challenges. Chatty protocols and latency cap their performance by limiting the amount of data carried over the WAN. So no matter the size of your network pipes, LAN-oriented applications just can't perform at business speed...*until now.*

The Acceleration Module for the Packeteer® PacketShaper heals the problems created by latency on the network, allowing applications to increase their flow rates to speed completion of big jobs. By building on patented PacketShaper WAN application intelligence, the Acceleration Module speeds Web applications, time-sensitive transaction response times and file transfers — so LAN-oriented applications finally have the freedom they need to run efficiently over the WAN.

High Performance WAN

Working in concert with the Monitoring, Shaping and Compression Modules, the Acceleration Module adds more application performance capabilities to PacketShaper appliances. Using *Xpress TCP* and *Xpress HTTP*, the Acceleration Module enables network and IT managers to reclaim bandwidth lost to latency and inefficient protocol behavior.

Xpress TCP: High Performance WAN/Internet Acceleration

TCP design limitations — such as the inability to ramp bandwidth and fill pipes due to OS window size, high latency or link size — are to blame for most cases of poor LAN-oriented application performance. Xpress TCP overcomes these issues, eliminating the impact of latency and inefficient protocol behavior experienced in over 80 percent of network traffic — including HTTP, SSL, FTP and more.

Xpress TCP is especially useful in environments that have:

- High latency (over 200 ms), including international links, satellite links and multi-hop microwave links that need to ramp bandwidth or that carry chatty applications
- High capacity (DS3/45 MBPS) with very large flows, including data center replication, database mirroring, disaster recovery storage and backup



**Boost application
performance**

Accelerate TCP

Optimize the link

Speed-up large flows

Accelerate transactions

Acceleration Module for PacketShaper®

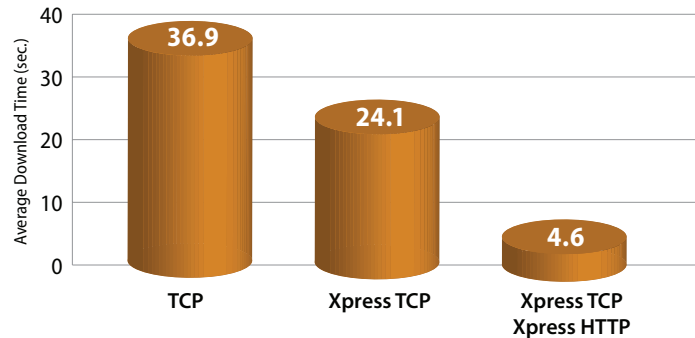
Enhanced WAN Application Performance

Key Features

- Transparent, protocol-layer architecture
- XML and HTTP acceleration
- Data center replication acceleration
- Maximum performance gains with Compression Module
- Complete integration with all PacketShaper Modules



Transaction-based application: high latency



Xpress HTTP accelerates customer-critical Web applications — history queries, order entry payments and others — by 5-10x over high-latency links

Xpress TCP operates as a transparent, high performance protocol gateway to speed the delivery of file transfers and transactions so you can fully utilize those large links and overcome high-error environments. Xpress TCP quickly delivers key business applications and ensures that important data arrives efficiently and reliably at its destination.

Xpress HTTP: Less Administration, More Savings

Xpress HTTP significantly improves performance of Web-based applications on high-latency links. With faster connection setup and intelligently pre-cached content within connections, Xpress HTTP accelerates the delivery of enterprise applications over the Internet and emerging Web service architectures based on XML over HTTP. Unlike file transfers that typically consist of a single large download, Web traffic is characterized by large numbers of short connections. Intelligent fetching and pre-caching optimizes the download and display of Web pages, especially when they contain many objects.

Xpress HTTP acknowledges TCP connections immediately without waiting for a Web server connection. This immediate acknowledgement allows the browser to send its HTTP GET request right away — which keeps your network working, not waiting.

www.packeteer.com

10201 N. De Anza Blvd
Cupertino CA USA 95014
T +1 408.873.4400 F +1 408.873.4410

