

NetCelera)))

Get More From Your WAN

The logo features the word 'NetCelera' in a blue sans-serif font, followed by three yellow closing parentheses ')))'. Below it, the tagline 'Get More From Your WAN' is written in a smaller, italicized white font. The background consists of a dark blue field with a large, semi-circular shape on the left side, filled with concentric, overlapping circles in various shades of orange and yellow.

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Outline

- WAN Challenges
- ACM5 & SpeedArray
- Success Stories

Business Demands

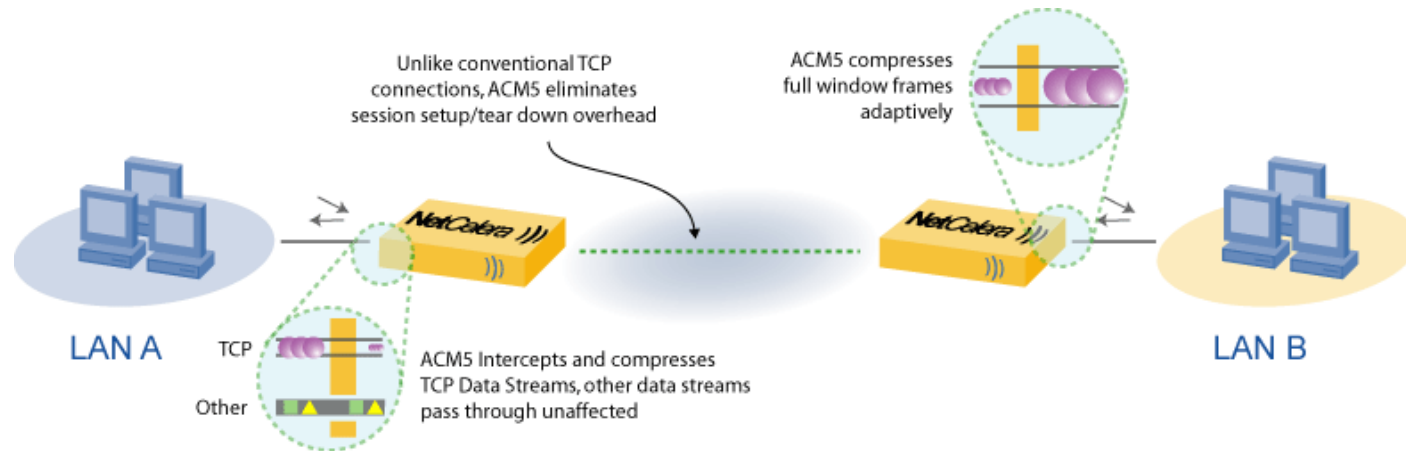
- **Improve Branch Productivity**
 - Enable Server Consolidation Strategy
 - Support Growing Applications & Bandwidth Requirements
 - Relief from Response-time Degradation
- **Improve Inter-Data Centers Communication**
 - Storage Networking over IP
 - Data Replication, Mirroring
 - Remote Backup/Restore
- **Reduce Operating Costs**

The WAN is the Weakest Link!

WAN Challenges

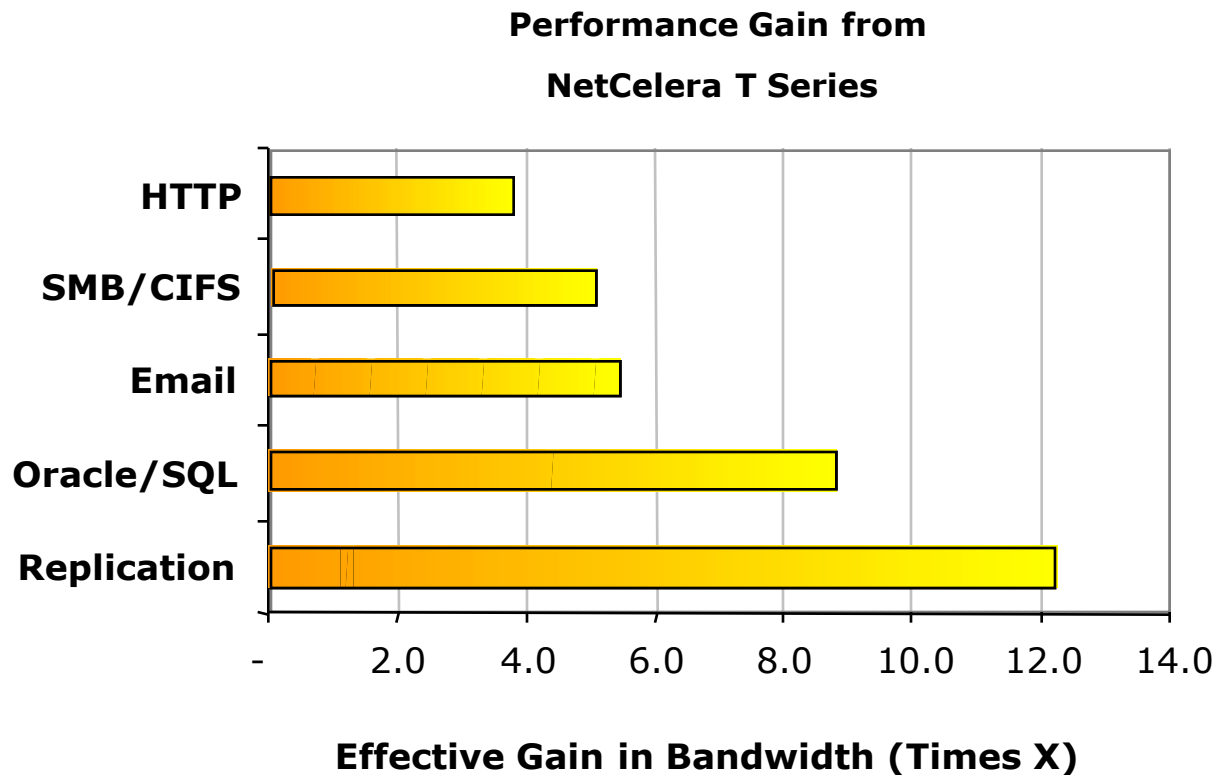
- Issues
 - Congestion
 - Contention
 - Latency
- NetCelera Solution
 - Compression
 - Prioritization (QoS)
 - Optimization

Layer 5 Technology



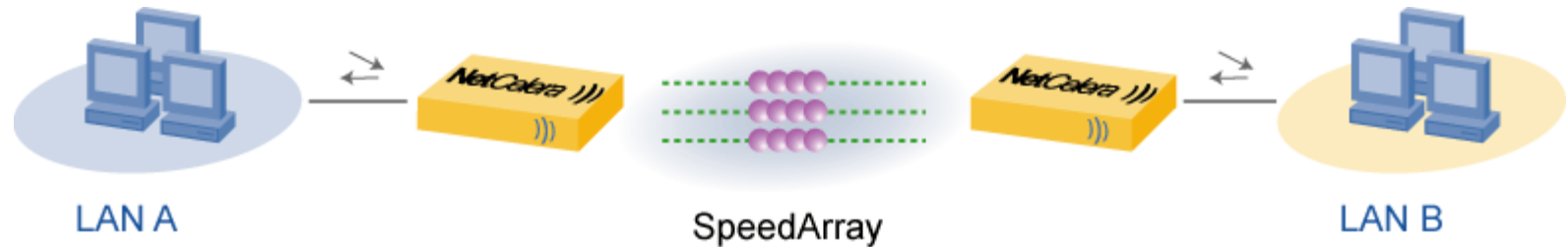
- Adaptive Compression and Multiplexing (**ACM5**)
 - Intercept TCP Sessions
 - Compress Full Window Frames Adaptively
 - Maximum Data Visibility = Max Compression
 - Adaptive = Dictionary Caching, Delta Updates
 - Multiplexing
 - Eliminates Session Setup/Tear Down Overhead
 - Reuses Dictionaries for Similar Data

ACM5 Results



Up to 10X Improvement!

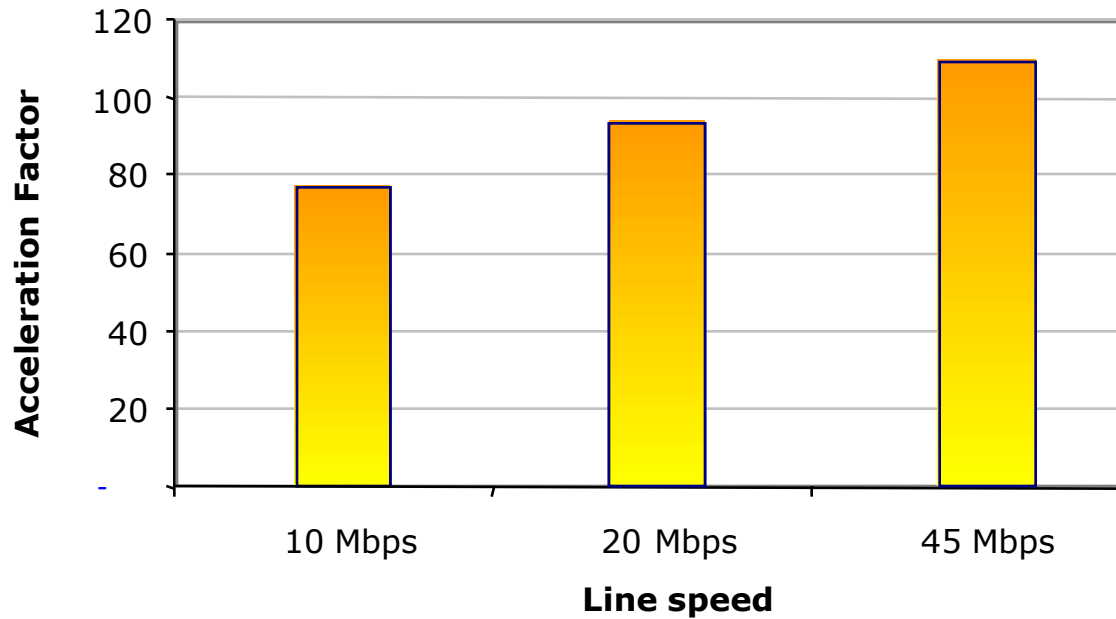
SpeedArray



- Transparently Creates Parallel Tunnels
- Dynamically Manages Tunnels' Traffic
- Eliminates TCP RTT Limit

SpeedArray Performance

Acceleration of a Compressible File
over a WAN with 300 ms Latency



More than 100 X Faster File Transmissions!

Major Financial Institution

- Before NetCelera
 - 2 X 45 Mbps Link, 95% Utilization
 - Veritas Global Cluster Manager
 - 9 Days to Perform Weekly Backup
- After NetCelera
 - 30% Link Utilization
 - 2 Days For Backup
- Result
 - DR Target Achieved
 - Backup Link Reduced to 12 Mbps

National Retailer

- Before NetCelera
 - DR Plan Based on Tape Fedex
 - 90 Mbps Estimated for Live Replication
 - Cost is Prohibitive
- After NetCelera
 - Constant 10X Compression
 - 12 Mbps Link Proved Sufficient
- Result
 - DR Target Achieved

Summary

- Cut the WAN budget by up to 50%
- Improve Response Time by > 100%

... Do More With Less!