



# A Platform Based Approach to WAN Application Delivery

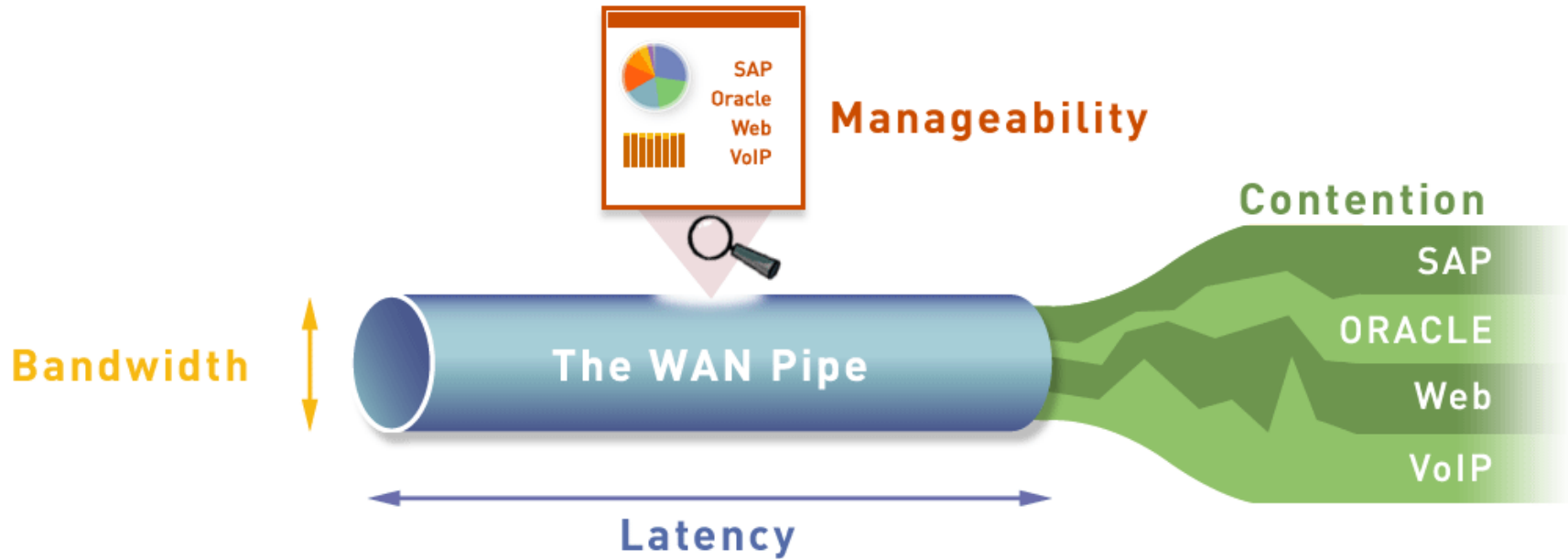
Dan Leary

VP, Product Management, Peribit Networks

# Application & Data Center Consolidation



# The WAN Impacts Applications



Impact on applications:

More rich content

Protocol chattiness

Lower-priority applications  
slow down critical ones

Inability to understand application and WAN performance

# WAN Optimization is the Answer

WAN optimization for application performance

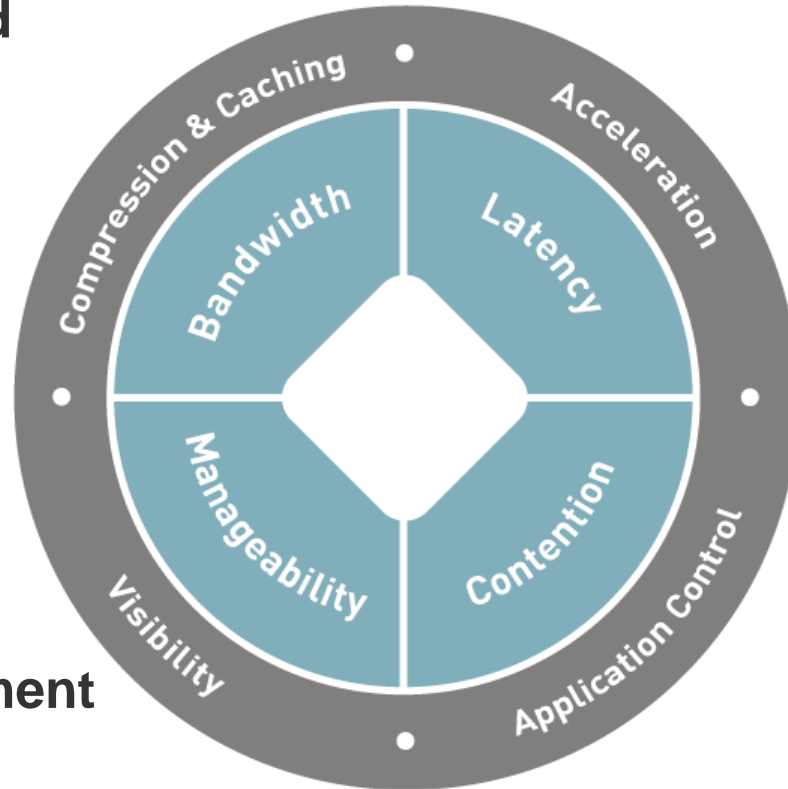
NETWORK SPENDING PLANS	AVERAGE SCORE (OUT OF 5)
Application Security	3.37
Storage	3.33
Perimeter Security	3.23
WAN Optimization	2.99
L2 Ethernet switches	2.94
L3 Ethernet switches	2.92
VoIP	2.91
Enterprise edge routers	2.90
L4-7 Ethernet switches	2.82
Legacy Voice	2.55

Source: Merrill-Lynch study, where top CIOs ranked their highest priority projects, out of a score of 5

# WAN Optimization Platform Components

**10x to 100x  
capacity increase  
with memory and  
hard-disk  
techniques**

**Faster response time  
with broad TCP and  
app-specific  
acceleration**



**Reporting,  
performance  
monitoring, and  
remote management**

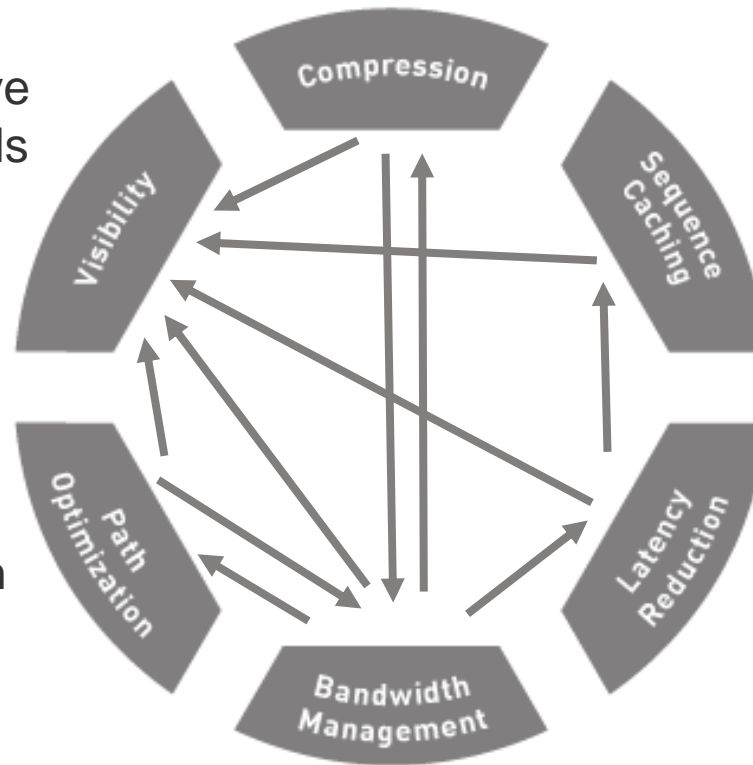
**Bandwidth  
management and  
path optimization  
across multiple links**

# Platforms Address Solution Interdependencies

QoS link metrics change settings in Compression

All features must give stats to Visibility tools

Latency Reduction speeds synch of Sequence Caching



QoS metrics impact Path Optimization, moving apps to alt. path

QoS impacts settings of Latency Reduction tools

Path Optimization changes traffic flows, impacting QoS

Compression impacts when QoS is invoked

# Application Acceleration

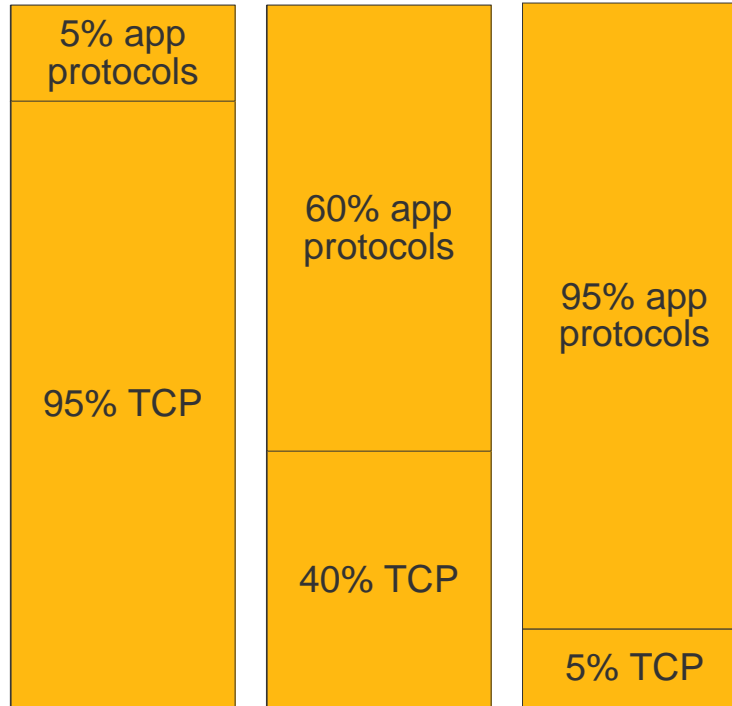
- Latency is leading cause of slow apps
- Two areas impacted – TCP and app layer
- Compounded by compression and caching

Many apps are slow because of TCP window delays

Examples:

FTP, backups, bulk data transfer, collaboration apps

**Solution: TCP Acceleration**



Others are delayed by TCP as well as protocol “ping-pong” delays

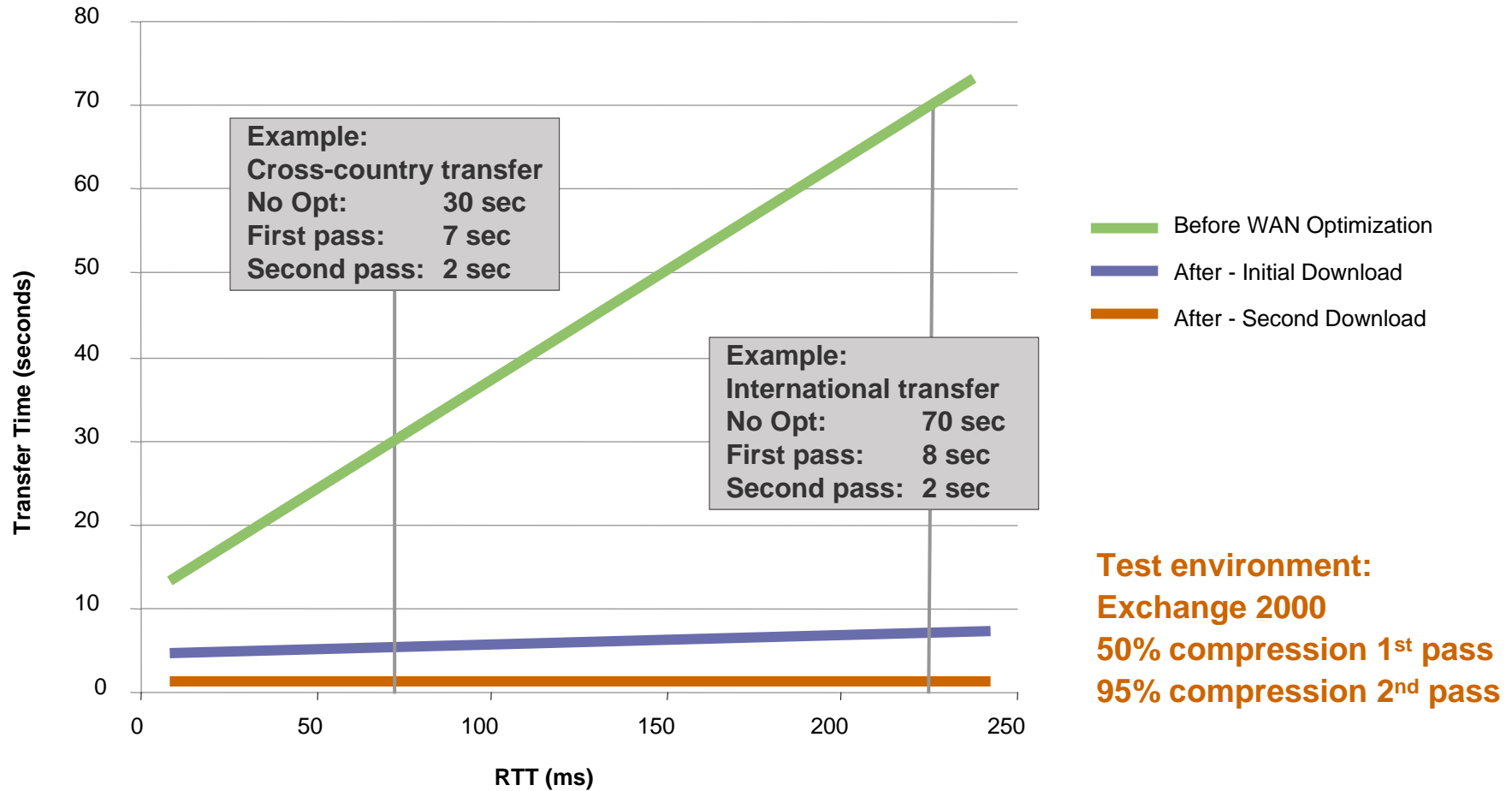
Examples:

CIFS, MAPI, web applications

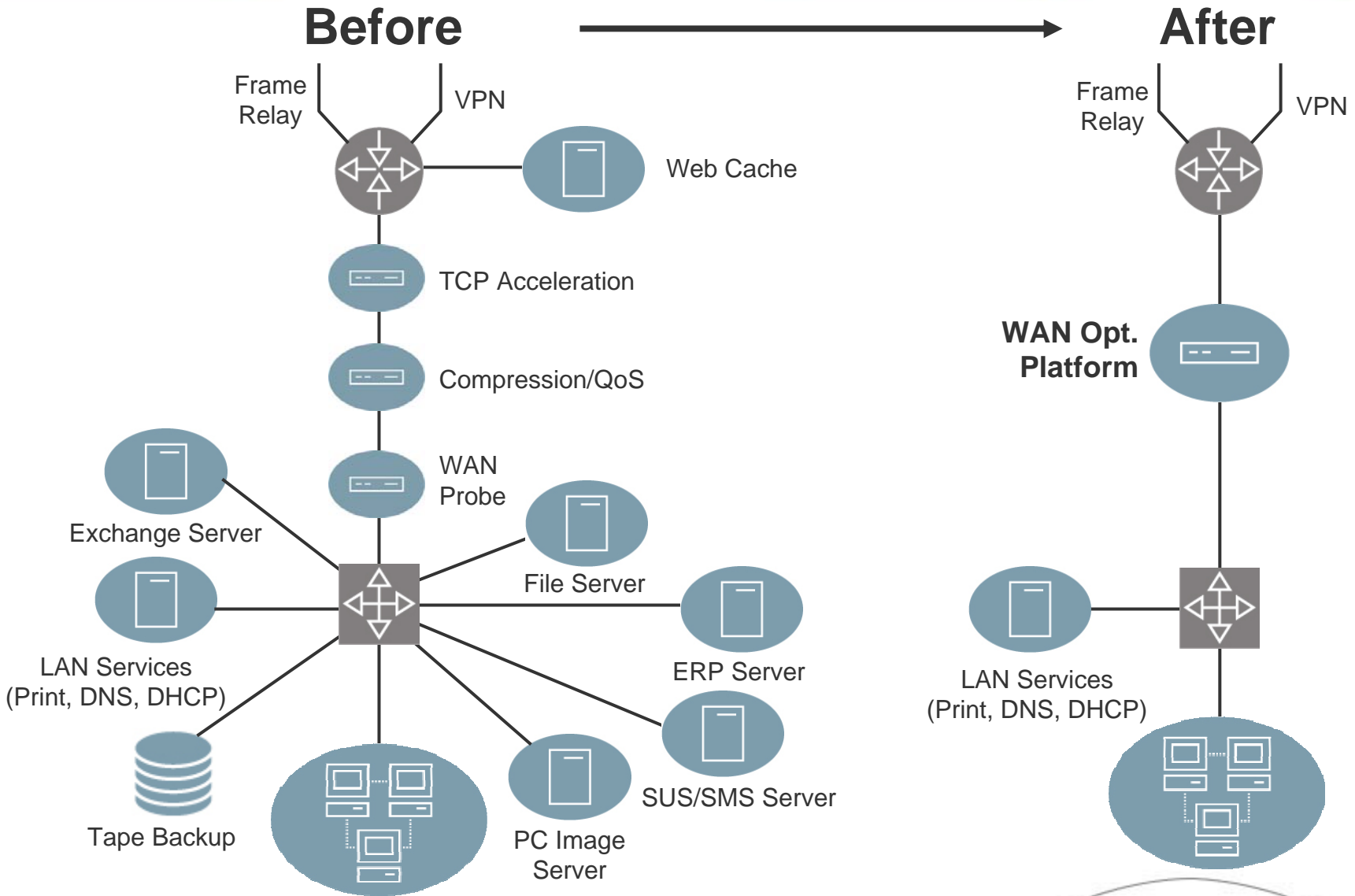
**Solution: Application Protocol Acceleration**

# Exchange Centralization with High Performance

## Time To Retrieve a 2 MB Exchange Attachment Over T-1 Link



# A Platform Approach Simplifies The Branch Office Architecture





**Thank You!**

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