

Packet Trace Warehouse AppMapper Xpert AppTransaction Xpert

Bill Eastman

Director, Systems Engineering

Riverbed Technology

©2013 Riverbed Technology. All rights reserved, Riverbed and an Willion bed product or service name or logo uses nerein are trademarks of Riverbed Technology and berein are branched mark their respective owners. The trademarks and logos displayed berein may not be used without the other written consent of Riverbed Technology or their respective owners.



Packet Capture Agents

Packet Trace Warehouse

Application Mapping

Tranactional Analysis

Copyright Riverbed Technology

Packets Traces are a Key Troubleshooting Tool

- Packet traces are the best and sometimes the only way to troubleshoot a problem
 - Direct form of evidence
 - Valuable for deep troubleshooting and forensic analysis
- Traditionally, packets traces have been challenging to acquire
 - Requires investment in hardware
 - Appliances must be placed strategically
- Agents facilitate convenient packet capture and retrieval
 - Tactically deployed on end-user stations or at remote locations
 - Distributed enterprise-wide with low overhead

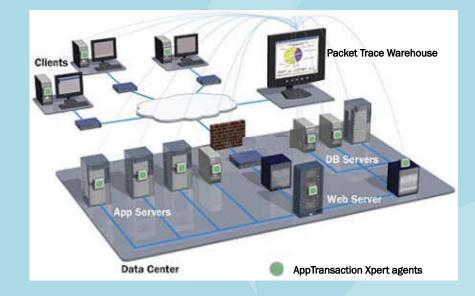
Packet Capture Agents

 Makes packet captures easy to acquire Capture packets from multiple vantage points simultaneously Continuous capture Always-on capture continuously saves packets into a rolling buffer Ideal for troubleshooting intermittent problems On-Demand capture 	Supported OS
	AIX
	FreeBSD
 Real-time capture for targeted troubleshooting Agent security 	HP-UX
 Anonymous (Level 1) encryption Encrypted connection, but no authentication Certificate (Level 2) encryption 	Linux
 Encryption and authentication Requires SSL certificates that were validated by a trusted CA 	Mac OS
	Solaris
	Windows

Copyright Riverbed Technology

Packet Trace Warehouse

- Delivers secure, centralized control of enterprise-wide agents
- Enables easy deployment of agents across the enterprise
- Reduces TCO to manage large scale agent deployments
- Manages ubiquitous packet capture via freely deployed agents



Packet Trace Warehouse

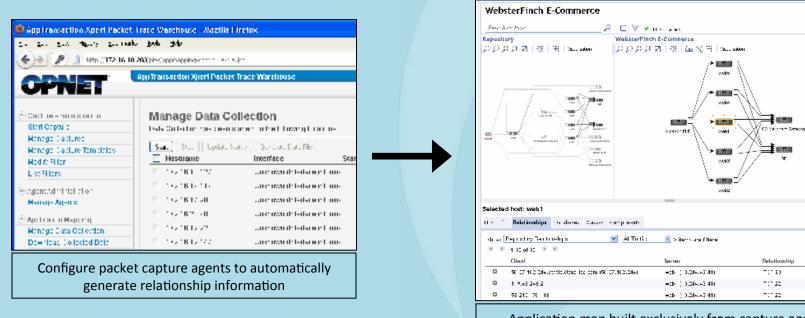
- Web-based capture operations
 - Start and stop packet captures
 - Preview capture buffers remotely
 - Download captures
 - Configure and save capture templates
- Agent discovery
 - Automatically discover all installed agents by searching a specified range of ports and IPs
 - Maintain centralized inventory of installed AppResponse Xpert[™] agents
- User management
 - Set user roles and privileges
 - Maintain audit log of all agent activity
- Security
 - Secure access to agents (via LDAP/AD, TACACS+, Radius, etc.)

		AppTransaction Xper	t Packet Trace Wareho	use		
	prei				-	
Start (Manag Manag Modify	Capture Administration Start Capture Manage Captures Manage Capture Templates Modify Filter List Filters List Filters					
	t Administration	- Hostname	Agent D	escription		
Manag	ge Agents t Discovery	 Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Institute Instite Institute<	5			
🔿 Appli	ODMET	OppTransaction Speci P	scient Trace Warehouse			
Manaj	UPNEI					
Down	Preview: optest					
	Historium — HIYY 8 Historium — HISTORIA HISTORIUM — HISTORIA HISTORIUM — HISTORIA					
	Network Throughput					
	Bird Leinears					
	Solodia rozzno higrigrinatzzo - Frougipul farthali el pali Ton A Ere B Data handemiel (tves que throughput					
	17215.3840	73, 0.25, 17	26 MB	127 Kb (%		
	17215.1343	73, 6.25, 17	43.9 MB	109 Kb :s		
	17215.5.3	73, 628, 17	3.5 °E	34 :pc		

Application Mapping

- Automatically create application maps leveraging enterprise-wide agent deployment
 - Discover application infrastructure components and dependencies using agents
 - Build accurate, up-to-date application maps based on run-time data
 - Supports applications in the data center, public cloud, or hybrid environments

AppMapper**Xper**t



Application map built exclusively from capture agents in the Amazon Cloud

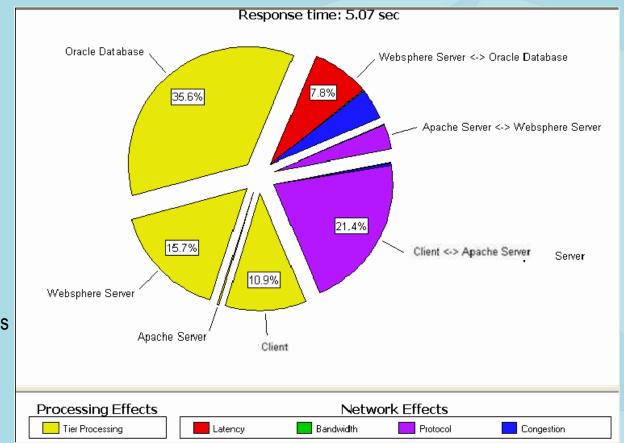
rgeni Homo | -e.p. Sign (ut. Repository Status: India, .

Yuhune

.

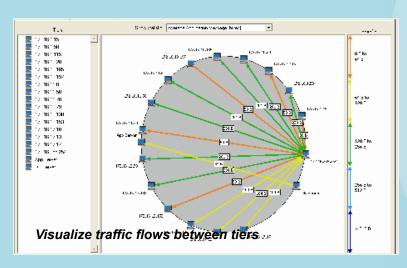
AppTransaction Xpert "AppDoctor"

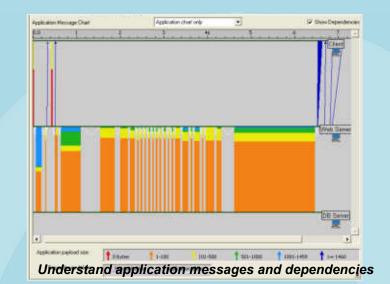
- Automatically diagnose performance bottlenecks
- Summarize components of response time delay
- Integrate with OPNET AppInternals Xpert[™] for in-depth analysis of server-based delays
- Rapidly troubleshoot root causes of performance issues

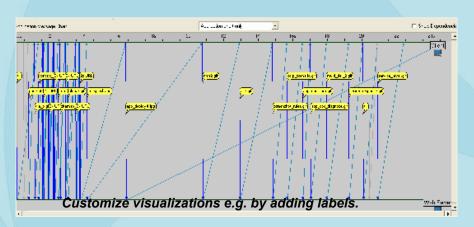


AppTransaction Xpert "Trans. Visualizer"

- Isolate application message flows
- Visualize application performance, including
 - Application message turns
 - System performance statistics
- Drill down into application messages
- Understand dependencies impacting performance

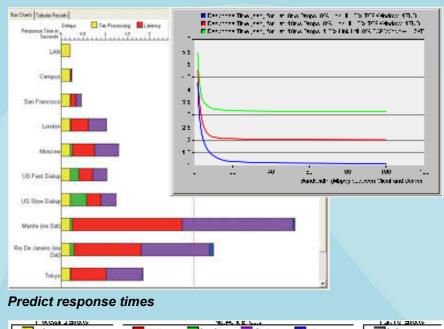






AppTransaction Xpert "QuickPredict"

- Predict response times in numerous what-if scenarios
 - Plot response time over a range of network conditions
 - Immediately assess the effects of adjustments to network and application parameters
 - Bandwidth
 - Latency
 - Packet loss
 - TCP window size
 - Number of application turns
 - Message size
 - Etc.
- Validate solutions to performance problems before deployment
- Study impact of many simultaneous transactions (multiple clients, servers & apps)
- Ensure efficient, effective infrastructure investments



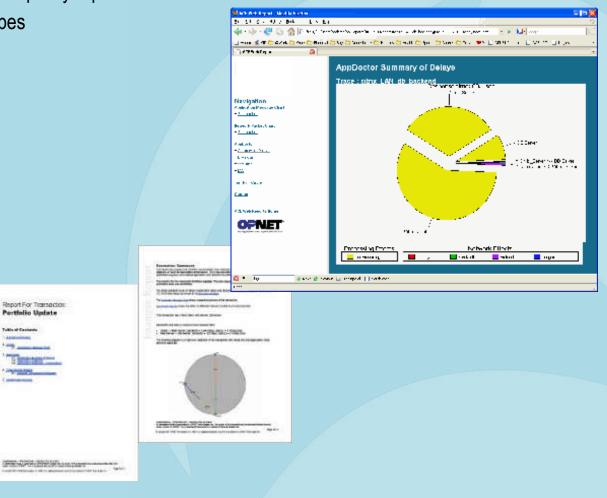


Plan capacity for access links

AppTransaction Xpert Reporting

Portiniio Update

- Automatically generate professional-quality reports •
- Choose from a variety of report types •
 - **MS Word Report**
 - Web Report
 - **Multiple Transaction Report**
 - **Comparison Report**
 - **Difference Report**
 - **Statistics Report**
- Easily customize report content ٠





DEMO