

IN BRIEF

Industry

- » Financial Services

Challenges

- » Ensure service availability by obtaining end-to-end application visibility
- » Lower mean time to repair (MTTR) by understanding the impact of change on business services

Solution

- » DTCC deployed Cascade with sensors at several strategic locations

Result

- » End-to-end application visibility



The Depository Trust & Clearing Corporation



The Depository Trust & Clearing Corporation (DTCC)

DTCC Deploys Riverbed® Cascade™ for End-to-End Application Performance and Availability

DTCC (The Depository Trust & Clearing Corporation), through its subsidiaries, provides clearing, settlement and information services for equities, corporate and municipal bonds, government and mortgagebacked securities, money market instruments and over-the-counter derivatives. In addition, DTCC (with headquarters in New York, and operating facilities in multiple locations in the United States and overseas) is a leading processor of mutual funds and insurance transactions, linking funds and carriers with their distribution networks.

DTCC's depository provides custody and asset servicing for 3.5 million securities issues from the United States and 110 other countries and territories, valued at \$40 trillion. Last year, DTCC settled more than \$1.8 quadrillion in securities transactions.

As the world's largest post-trade infrastructure, DTCC provides unrivaled economies of scale, security and business continuity to automate, centralize, standardize and streamline processes that are critical to the safety and soundness of the capital markets. As an at-cost, user-owned, user-governed organization, DTCC helps customers increase their operational efficiency, reduce risk and lower cost.

Challenges

Expanding virtualization, optimization, and Web services technologies across multiple operating locations had increased the complexity of DTCC's IT infrastructures, changing the relationships between components, applications, and users. DTCC's infrastructure management team needed greater insight into how the different systems were working together, and needed to be alerted to information vital to effective management of business service delivery. DTCC had two distinct challenges:

- **Ensure service availability by obtaining end-to-end application visibility.** In order to ensure acceptable availability and performance of applications, DTCC needed end-to-end visibility into the infrastructure supporting business-critical applications. DTCC's architecture, which uses encrypted communications to maintain a secure environment for safe execution of clients' transactions, especially created visibility challenges.
- **Lower mean time to repair (MTTR) by understanding the impact of change on business services.** DTCC needed to be able to identify which service disruption might have the highest impact on the business by mapping users to applications and the underlying support infrastructure. This critical troubleshooting information would help determine how many users might be affected by a problem, and what the business impact could be.

“Riverbed Cascade has given us the end-to-end application visibility not found in our existing tools. I use Cascade frequently to identify and resolve performance and availability issues for infrastructure management and business-critical applications.”

— Neil Wasserman, VP of Information Technology, DTCC

Solution

DTCC deployed Cascade with sensors at several strategic locations. They now forward flow data from the existing LAN and WAN infrastructure, enabling them to analyze application and network activity without requiring probes on every WAN link.

Cascade is used across DTCC's information technology operations, network engineering, application support and security operations groups to broadly identify and resolve network, security, system, and application issues.

Results

End-to-end application visibility. Cascade enhanced DTCC's ability to view application data, host data, and network component flows with usage profiles, dependency maps, anomaly detection, and behavioral analysis. It has enabled DTCC to visualize a complex and intricate application architecture. DTCC can see the interdependencies of data sources, servers, transactional tiers and client connections. They can get this rich data even though a significant percentage of traffic to their production application is encrypted. They can even obtain dependencies for internally developed applications using custom code.

DTCC can understand which parts of their server infrastructure supports which production applications. This includes the discovery and mapping of the complex, multi-tier architectures that support their high volume transactional environment, as well as multiple internal and external data sources, complex clustered and redundant data repositories, mid-tier transaction and application servers, and a myriad of front-end connections over both internet and dedicated line into customer environments.

About Riverbed

Riverbed Technology is the IT infrastructure performance company. The Riverbed family of wide area network (WAN) optimization solutions liberates businesses from common IT constraints by increasing application performance, enabling consolidation, and providing enterprise-wide network and application visibility – all while eliminating the need to increase bandwidth, storage or servers. Thousands of companies with distributed operations use Riverbed to make their IT infrastructure faster, less expensive and more responsive. Additional information about Riverbed (NASDAQ: RVBD) is available at www.riverbed.com



2005, 2006, 2007, 2008, 2009



Riverbed Technology

199 Fremont Street
San Francisco, CA 94105
Tel: +1 415 247 8800
Fax: +1 415 247 8801
www.riverbed.com

Riverbed Technology Ltd.

Farley Hall, London Road
Binfield
Bracknell
Berks RG42 4EU
Tel: +44 (0) 1344 401900

Riverbed Technology Pte. Ltd.

391A Orchard Road #22-06/10
Ngee Ann City Tower A
Singapore 238873
Tel: +65 6508-7400

Riverbed Technology K.K.

Shiba-Koen Plaza Building 9F
3-6-9, Shiba, Minato-ku
Tokyo, Japan 105-0014
Tel: +81 3 5419 1990

© 2009 Riverbed Technology. All rights reserved. Portions of Riverbed's products are protected under Riverbed patents, as well as patents pending. Riverbed Technology, Riverbed, Steelhead, RiOS, Interceptor, Think Fast, the Riverbed logo, Mazu, Profiler, and Cascade are trademarks or registered trademarks of Riverbed Technology. All other trademarks used or mentioned herein belong to their respective owners.