

# Riverbed's Cascade

## Manage, Secure, and Optimize the Performance and Availability of Business Services

Server virtualization, data center consolidation, and Web services initiatives are changing the IT landscape. Organizations are increasingly finding significant gaps in their ability to secure and manage the availability and performance of key business services.

Riverbed Cascade™ combines visibility into end-to-end application delivery dependencies with Network Behavior Analysis (NBA) to address these management gaps. Riverbed's management solution spans network, security, and data center operations groups to provide application performance management, improved threat and compliance management, and CMDB discovery.

Cascade provides a new way of managing application performance and security by analyzing the interactions of users with the applications, systems, and network devices that comprise the application delivery infrastructure. Cascade delivers the critical data customers need to quickly resolve problems that affect service — such as unauthorized usage, availability and performance issues, and security threats — as well as to inform consolidation, virtualization and optimization initiatives.

### How it Works

Cascade collects network flow data and enhances it with application and user identification, behavioral analytics, and network performance metrics. Because you can create groupings based on logical business categories, Cascade presents a complex infrastructure in a business context. Pre-defined and customizable behavioral analytics enable users to identify performance, availability, and security issues before they disrupt business services. Complete and accurate usage and dependency data provide the key inputs for making the right optimization and change management decisions. Cascade also provides an extensive set of integrations, which enable it to interoperate intelligently with other systems to increase their value and improve your workflow. Cascade's passive, agent-less deployment allows fast implementation.

### How it's Used

Cascade provides users the ability to effectively manage change in their IT infrastructures. As a result, customers are able to ensure the availability, performance, and security of business services as well as to reduce costs and satisfy regulatory requirements. Specifically, customers use Cascade for:

**Application performance management** – Behavioral analytics combined with user-defined policies deliver the information and enforce the policies needed to proactively assure service delivery. Contextual alerts provide the information needed to quickly resolve issues.

**Improved security** – Extensive analytics identify hard-to-detect security threats such as zero-day attacks, “boutique” malware, and credentialed attacks.

## Solution Overview



The last thing you need is just another management tool. That's why Riverbed is focused on providing solutions that deliver a superior return on your investment. As any of our 200+ customers will attest, Cascade:

- **Accelerates** your existing workflows
- **Augments** existing management tools
- **Optimizes** the use of skilled resources
- Provides information to help you **avoid costly security and performance events**
- **Provides value** across multiple operations groups
- As a result, you **save on both operating and capital expenditures**.



## Solution Overview

### Proactive Service Assurance

- Define service-level objectives
- Monitor for service-level changes
- Enforce usage policies

### Effective Planning and Risk Management

- Automatically identify assets and applications as well as their dependencies
- Understand actual usage
- Understand the impact of change
- Identify bandwidth utilization by application
- Forecast capacity needs
- Optimize investments and deployments

### Cost-Effective Enterprise-Wide Coverage

- Passive deployment
- Centralized analysis console
- Intelligent interoperation with other systems

### Faster Problem Resolution

- Identify dependencies
- Distinguish between application response time and network latency
- Integrate context information into workflows
- Segment alerts based on op. role

### Security

- Identify malware without signatures
- Identify internal or credentialed attacks
- Identify unauthorized applications, hosts, or servers on the network
- Understand the context of a security event
- Segment alerts based on op. role

## LTI DataComm

23020 Eaglewood Ct. #100  
Sterling, VA 20166  
[www.ltidata.com](http://www.ltidata.com)  
800-677-5050

© 2009 Riverbed Technology. All rights reserved. Portions of Riverbed's products are protected under Riverbed patents, as well as patents pending. Riverbed Technology, Riverbed, RIOS, Steelhead, Interceptor, Atlas, Think fast, and the Riverbed logo are trademarks or registered trademarks of Riverbed Technology.

**Visibility into WAN and virtualized environments** – Get full visibility into traditionally “blind” environments such as optimized WANs and virtualized systems.

**Automated regulatory compliance** – Visibility and reporting capabilities support automated planning and policy enforcement and reduce the effort and cost required to support audits.

**Data center consolidations and moves** – Application dependency mapping provides the information needed for proper planning. Change impact information ensures smooth implementation.

**CMDB Discovery** – Discovery and dependency mapping that is pervasive, continuous, and passive for coverage that is accurate, cost-effective, and enterprise-wide.

### Riverbed Cascade Saves You Money

**Reduced MTTR**- Cascade's unique end-to-end view of the application delivery path expedites the troubleshooting process for both security and application delivery events. As a result, IT understands the inter-relationships among all the applications and the network and server components that work together to deliver application services to business users. This delivers savings by:

- Reducing revenue loss from business service disruptions
- Reducing troubleshooting staff-hour requirements of highly skilled network and security staff

**Minimal Hardware Deployment**- Cascade provides visibility and security with minimal deployment of devices such as IDS sensors or network probes. The lightweight deployment model scales by number of data centers as opposed to WAN links or remote sites. This delivers savings by:

- Significantly reducing capital expenditures required to reach full deployment
- Eliminating operations expenses related to maintaining remote hardware and agents

**Optimized Use of Skilled Staff**- Cascade's focus on ease of implementation and accelerating workflow reduces the amount of time spend by skilled staff on management processes. This delivers savings by:

- Increasing the percentage of workflow that can be completed at a lower pay scale
- Freeing up highly skilled personnel for problem avoidance and planning activities, eliminating the need to hire costly outside resources
- Reducing the overall operational expense of network, application, and security management processes

**WAN Bandwidth Reduction**- Cascade customers can avoid costly bandwidth upgrades by identifying and minimizing non-business use of expensive WAN resources. This delivers savings by:

- Assisting in prioritization of WAN links that would most benefit from optimization, enabling you to focus capital expenditures for best results
- Identifying cases where bandwidth upgrades can be avoided, reducing ongoing WAN expense

**Minimized Business Service Outages**- The Aberdeen Group estimates that, on average, outages and slowdowns affect revenues from business services by 9 percent. Cascade has unique abilities that enable early detection of and assurance against service disruption. This delivers savings by:

- Significantly reducing the time required to restore disrupted services which minimizes the operating cost of problem resolution
- Reducing the number of service-affecting incidents, thus maximizing services income