Riverbed Stingray Traffic Manager for the IBM PureFlex System

Business agility, security and unparalleled performance for web-enabled applications

Highlights

- Simplified deployment and streamlined administration with the Riverbed Stingray virtual appliance for the IBM® PureFlex™ System
- Unprecedented scale and flexibility, with the ultimate in performance for web-enabled applications
- Accelerated applications with dynamic caching and TCP connection management
- Improved efficiency by offloading SSL and compression
- Auto-scaling of capacity to meet demand

In today's business environment, the standard is high for online applications. Even with high demand and escalating traffic loads, we expect always consistent, always high-performance service, with no delays, no unavailability, and no excuses. Application delivery controllers must perform to maximize availability, manage security, accelerate transactions, and provide administrators a versatile control tool to monitor and manage traffic.

Now on the IBM PureFlex System, the Riverbed® Stingray™ Traffic Manager application delivery controller delivers unprecedented scale and flexibility with the ultimate in performance for web-enabled applications. Stingray on the PureFlex System improves the performance, reliability and security of web portals, consumer websites and enterprise applications, all while reducing costs for complex, multi-tiered cloud applications.

The Riverbed Stingray Traffic Manager provides an optimized, agile, secure, easy-to-manage solution for traffic management, giving administrators complete control over user traffic and key business applications. Stingray Traffic Manager is used by seven of the top 10 global telecommunications providers, and also powers some of the most popular sites on the web. Stingray runs on SUSE or Red Hat Linux on x86 processors, with native VMware and KVM support.

Stingray Traffic Manager users experience:

- **Speed:** Accelerated services and increased capacity by offloading performance-draining tasks onto optimized implementations; ability to cache commonly requested content and optimize traffic delivery to applications.
- **Reliability:** Improved application availability through load balancing, which provides intelligent distribution of traffic, avoidance of poor-performing or failed servers, and close monitoring of performance problems.
- **Improved security:** Stingray operates as a deny-all gateway, with high-performance inspection to interrogate any part a request or to apply global filtering or scrubbing.
- **Ease of management:** Easily manage how users interact with applications and the infrastructure for those applications, and shape, prioritize and route traffic.

Riverbed delivers performance for the globally connected enterprise. Initiatives including virtualization, consolidation, cloud computing, and disaster recovery can be implemented without compromising performance. By giving enterprises the platform they need to understand, optimize, and consolidate their IT, Riverbed helps organizations build the IT architecture that aligns with their business needs. Together, Riverbed and IBM provide combined market-leading WAN optimization and application delivery solutions, through a Global Alliance Relationship Agreement. The alliance provides focused coordination on innovative and effective combined solutions from both companies' knowledge, expertise and resources, with a joint understanding of the need to focus on core competencies and maximize respective competitive advantages.

Riverbed Stingray virtual appliance accelerates time to value

Riverbed Stingray is now optimized on the PureFlex System and available for rapid deployment as a virtual appliance using KVM virtualization, making it a strong choice for cloud deployments. This "Ready for IBM PureSystems" technology provides unprecedented visibility and control of online application traffic, ensuring optimal application performance. Deployment takes minutes, not the hours or days required for traditional approaches. The Stingray virtual appliance for the PureFlex System provides scripting so installation and initial configuration is automated and easy. The Stingray virtual appliance is software-based, not hardware-based, meaning it is runs within the PureFlex System. It can be deployed in minutes and can scale on demand, with no need for additional rack space, power or cooling.

"Riverbed's Stingray software is the ideal tool to help customers migrate to virtual and cloud infrastructures," says Apurva Davé, Vice-President of Marketing Riverbed. "Stingray and the PureFlex System deliver huge savings on capital investment and operating costs, energy, and administrative time."

Both flexible and simple, Stingray for the PureFlex System can merge traffic to and from any online application, regardless of the operating platform of the application. Stingray for the PureFlex System improves reliability and security for web portals, consumer websites and enterprise applications, while reducing costs for complex, multi-tiered cloud applications.

Riverbed Stingray for the PureFlex System enables:

- Dynamic caching and TCP connection management to accelerate applications
- Offloading SSL and compression to boost efficiency
- Auto-scaling of capacity to meet demand
- Fine-grained application control with powerful scripting tools with support for Java
- Real-time analysis of traffic and connections
- Tight security against external threats with cloud-enabled application firewalls
- Global workload balancing for increased availability

Transform your business with agility, efficiency and simplicity

The PureFlex System comes out of the box with expertise encapsulated in patterns that IBM has developed based on decades of experience. This enables deep integration and central management of the comprehensive, open-choice infrastructure system and dramatically reduces the skills and training required for managing and deploying the system. The PureFlex System is a workload aware, flexible platform designed to be easy to deploy, customize, safeguard and manage in a traditional or private cloud environment—ultimately providing superior IT economics.

The PureFlex System offers both POWER7® and Intel processor-based compute nodes, and runs applications on supported versions of AIX®, IBM i, Linux and Microsoft Windows. The single management interface for compute, storage and networking resources minimizes your hardware configuration and setup time. This means less time—and less money—spent on IT infrastructure and maintenance, freeing you up to focus time and resources on your company's next move. Deploying the Riverbed Stingray virtual appliance on the PureFlex System delivers:

- **Agility:** The PureFlex System is powerful enough to handle workload spikes, and to handle sharp increases in user growth without server sprawl. This means that both Stingray's traffic management capacity and the applications it supports can quickly scale to match demand.
- **Efficiency:** The PureFlex System enables consolidating IT resources for better performance and return on investment, particularly around storage and power consumption. Running Stingray as a software virtual appliance consolidates traffic management function within the PureFlex System footprint without the need for additional hardware.
- **Simplicity:** The pre-integrated and pre-optimized PureFlex System simplifies the deployment of the Stingray virtual appliance and enables Stingray to manage traffic for applications on multiple operating platforms within the same chassis. The integrated management of the PureFlex System streamlines administration, providing a single point of network, storage and compute administration for configuring and optimizing hardware resources.
- **Control:** Using Stingray's network traffic management with the expertly tuned PureFlex System offers reduced risk and improved reliability for your online applications.

By combining compute, storage, networking, virtualization and management into a single, optimized system, you are able to simply manage and flexibly deploy integrated patterns of virtual and hardware resources through integrated management across multiple operating platforms. More than a static stack of pre-integrated components, the PureFlex System takes the power, performance and possibilities of asset management to an entirely new level.

Why IBM?

IBM has built on knowledge, expertise and technology gained from decades of experience and investment in IT solutions for business problems and integrated it into the PureFlex System. And with a commitment to open standards you can integrate IBM solutions with other elements of your own environment with your network of partners, customers and suppliers.

With the technical and industry expertise of IBM Business Partners like Riverbed and our combined ability and skill to integrate it all together for you—along with an unwavering commitment to your success—you can rely on IBM and your IBM PureFlex System for your Riverbed solutions.

For more information

To learn more about the IBM PureFlex System and the "Ready for IBM PureSystems" Riverbed Stingray Traffic Manager virtual appliance, please contact your IBM representative or IBM Business Partner, or visit the following websites:

- **ibm.com**/pureflex
- http://www.riverbed.com/us/products/stingray/

Additionally, IBM Global Financing can help you acquire the IT solutions that your business needs in the most cost-effective and strategic way possible. We'll partner with credit-qualified clients to customize an IT financing solution to suit your business goals, enable effective cash management, and improve your total cost of ownership. IBM Global Financing is your smartest choice to fund critical IT investments and propel your business forward. For more information, visit: **ibm.com**/financing

© Copyright IBM Corporation 2012

IBM Corporation
Systems and Technology Group
Route 100
Somers, NY 10589 U.S.A.

Produced in the United States of America
April 2012

IBM, the IBM logo, ibm.com, and IBM PureFlex are trademarks of International Business Machines Corporation in the United States, other countries or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at **ibm.com**/legal/copytrade.shtml

Other company, product or service names may be trademarks or service marks of others.

Not all offerings are available in every country in which IBM operates.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

Stingray Traffic Manager is not an IBM product or offering. Stingray Traffic Manager is sold or licensed, as the case may be, to users under Riverbed's terms and conditions, which are provided with the product or offering. Availability, and any and all warranties, services and support for Stingray Traffic Manager is the direct responsibility of, and is provided directly to users by, Riverbed.

Please Recycle

WAS12357-USEN-01