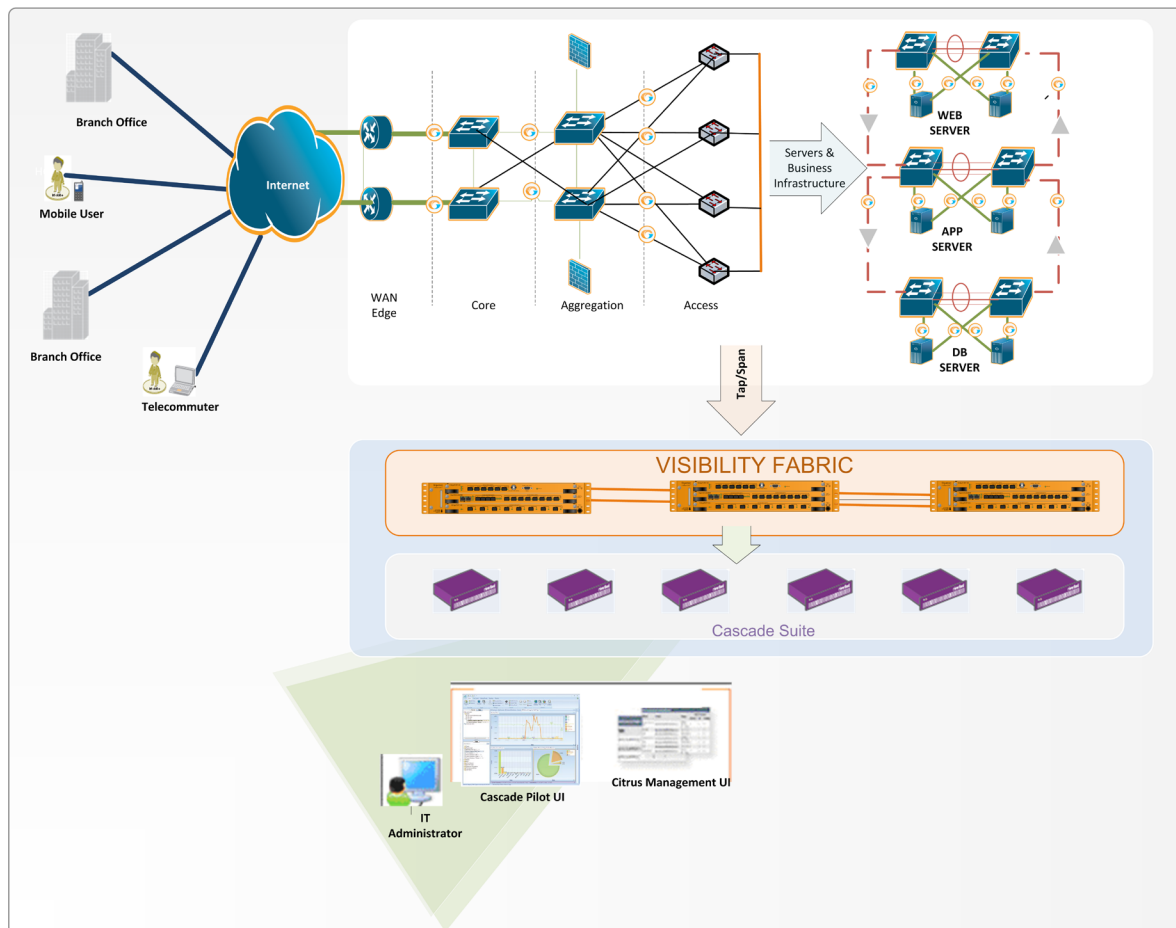**Gigamon®**
The Smart Route To Visibility™

riverbed®

From Web 2.0 companies to long-standing institutions, the network is the central IT asset that enables an organization to expand into new geographies, enter new markets, create new products/services and foster seamless communications across a global business. In order to maintain and extend their competitive edge, businesses continue to aggressively invest in productivity applications to enable transactions for internal employees, and establish collaboration solutions with outside partners or customers. The responsiveness and availability of critical business applications and essential IT services is therefore of paramount concern to IT organizations everywhere. As a means of achieving more with less, IT administrators are turning toward new and innovative technologies such as cloud computing, infrastructure consolidation and virtualization. However the true benefits of these technologies can only be achieved if a complete understanding of the network traffic, its performance and dependencies is established and maintained. To this end, IT organizations are increasingly turning to best-in-class, end-to-end traffic visibility and performance analysis tools to monitor and manage the network, and to assist with isolating performance problems.

SOLUTION OVERVIEW

The face of enterprise IT infrastructure is being radically transformed by a tidal wave of new applications and innovative technologies including data center consolidation, server virtualization, application development controllers (ADCs) and cloud services. More and more business-critical applications are moving from the physical confines of the corporate organization to the internet. The availability of, and access to these applications is required from anywhere and at anytime. As these applications increase in importance to ongoing operations, their performance will dictate the success or failure of any new corporate initiative. While it is critical that the network be able to support predictable performance for all types of network traffic, network conditions are very much like the weather — they have patterns, but without vital insights, they are very difficult to predict.

Visibility into the types of applications, the array of traffic and its associated performance, and the number of devices continue to list among the top concerns for enterprise IT. You can't manage what you don't measure, and you can't measure what you can't see. When you know the behavior and operational profile of your servers and network under "normal" conditions, you will be more informed and more able to diagnose the issues and challenges that inevitably arise. Continuous monitoring, performance baselining / benchmarking and long-term trend analysis are therefore crucial for efficiently managing network and application service delivery.

Riverbed® Cascade® and Gigamon® have collaborated to develop a solution that provides cost-effective, application-aware network performance management enabling end-to-end

Reference Architecture

visibility into the performance of critical business applications. By combining flow and packet data, Cascade, enabled by a Gigamon Visibility Fabric, integrates end-to-end monitoring with deep packet capture and analysis for proactive alerting and robust network troubleshooting. Armed with this information, IT infrastructure teams can effectively support the application lifecycle, monitor and analyze operational network performance and ensure that committed service levels are met in production networks.

One gigabit or 10 Gigabit traffic streams are mirrored from the core switches and server infrastructure into the Gigamon Visibility Fabric™ where the streams are filtered and aggregated before being forwarded to the Cascade Shark Appliances for packet capture, long-term storage and deep packet analysis. Gigamon's unique patented Flow Mapping® ilters, intelligently segregates the data into different logical groupings and removes unwanted information based upon Layer 2, 3 or 4 parameters applied

to the incoming and outgoing traffic streams. As traffic enters the Gigamon Traffic Visibility Nodes, the packets can be accurately time-stamped with either microsecond or nanosecond accuracy clocks. Precision time-stamping closer to the point of origin provides accurate time-of-transmission of the packet, thereby eliminating latencies and distortions introduced due to buffering on intermediate hardware. This information can then be visualized by Cascade Pilot packet analysis software for detailed latency analysis of the correlated traffic on a segment-by-segment basis utilizing the built-in multi-segment analysis feature. Cascade's advanced network analysis and reporting engine takes advantage of the GPS time-synchronized capabilities of the Fabric to correlate data with precise time delay information—critical data needed to diagnose and troubleshoot complex performance issues in latency-sensitive environments.

The plug-and-play architecture of the integrated

solution deploys easily in complex environments, providing network administrators with the vital insight they need to proactively and effectively govern IT infrastructures and ensure continuous availability of servers and applications.

GIGAMON

Gigamon provides intelligent Traffic Visibility Networking solutions for enterprises, data centers and service providers around the globe. Our technology empowers infrastructure architects, managers and operators with unmatched visibility into the traffic traversing both physical and virtual networks without affecting the performance or stability of the production environment. Through patented technologies, the Gigamon GigaVUE portfolio of high availability and high density products intelligently delivers the appropriate network traffic to security, monitoring or management systems. With over seven years experience designing and building intelligent traffic visibility products in the US, Gigamon serves the vertical market leaders of the Fortune 1000 and has an install base spanning 40 countries.

RIVERBED

Riverbed Cascade provides customers with cost-effective, application-aware network performance management that enables end-to-end visibility into the performance of critical business applications. Cascade integrates unified service monitoring with deep packet capture and analysis for proactive alerting and accelerated network troubleshooting. It also discovers and maps application dependencies, which is essential to building accurate service dashboards as well as accelerating planning for consolidation, virtualization, disaster recovery, and cloud projects By giving enterprises the platform they need to understand,

optimize and consolidate their IT, Riverbed helps enterprises to build a fast, fluid and dynamic IT architecture that aligns with the business needs of the organization. For more information about Riverbed Cascade products (NASDAQ: RVBD), please visit: www.riverbed.com/cascade.

LEARN MORE

For more information on the Riverbed and Gigamon solution, contact:

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