

Local Internet Solution

Internet and cloud application traffic is exploding globally. MPLS networks are getting slammed. Business-critical applications are slowing down. Branch-office users are frustrated. The answer? Virtela's Local Internet solution.

CHALLENGE

SKYROCKETING BANDWIDTH REQUIREMENTS

Enterprise MPLS networks have enabled consolidation of data, voice, video and Internet access via a single connection. But growth of cloud services, BYOD, employee-sanctioned Internet use and guest networks has greatly driven up Internet demands at enterprise branch offices worldwide. The fallout is costly:

- ▶ Mission-critical business applications compete for available bandwidth
- ▶ Remote-office users struggle with Internet performance because this traffic is typically backhauled to centrally provisioned Internet gateways often located outside of their region
- ▶ Unanticipated and unbudgeted network costs for additional MPLS and Internet capacity are on the rise

MPLS as a single-source solution with centrally deployed Internet gateways is no longer ideal or viable. IT executives are realizing a next-generation WAN is needed to optimally deliver internal and cloud applications to remote sites.

SOLUTION

THE APPLICATION OPTIMIZED NETWORK

The Virtela Local Internet solution eliminates backhauling and connects users from any branch-office location directly to the Internet and corporate applications via the Virtela Enterprise Services Cloud (ESC). Here's how the solution works:

- ▶ For companies without Internet VPN connections – Virtela supplies local Internet connectivity along with various cloud-based network services to enforce security policies and improve application performance
- ▶ For companies with primary and Internet VPN backup circuits at remote offices – Virtela segments and secures Internet traffic via the backup circuit and supplies local Internet connectivity

Virtela's Virtualized Overlay Network integrates more than 1,000 of the best-performing local and regional providers, and Virtela partners with countless ISPs globally, offering coverage in 1 million cities across over 190 countries. Virtela's ESC and global coverage allow us to deliver fully managed access to your employees anywhere in the world—securely via cloud-based or premises-based managed security. You benefit from a single source for network access, local Internet access and security, plus a single contract, single invoice and single end-to-end SLA.

HIGHLIGHTS



Performance

Improves performance of business-critical, Internet and cloud applications



Productivity

Accelerates application delivery, enhancing staff productivity



Savings

Reduces MPLS bandwidth consumption and CPE investments, prevents costly MPLS upgrades, requires zero upfront capex



Security

Provides customized cloud-based security services using industry-leading technologies



Simplicity

One SLA, one invoice, one operations center

BENEFITS

INTERNET OPTIMIZATION

Whether Virtela is enabling local Internet service over your backup network or providing a new, secure local Internet service for you, your branch-office users will appreciate highly optimized Internet performance. Virtela's LCCs securely localize Internet access with a wide array of cost-effective access technology options, bringing your cloud applications closer to your users. The solution:

- Improves the end-user experience by eliminating the backhaul of Internet traffic across the MPLS network to centralized Internet gateways
- Significantly improves the performance of Internet and cloud applications such as Microsoft Office 365 and Salesforce.com
- Enhances primary MPLS network performance while allowing your enterprise to forestall costly MPLS expansion to accommodate the growing volume of Internet-destined traffic

MPLS NETWORK OPTIMIZATION

Localizing your Internet connectivity and securely offloading your Internet and cloud applications will optimize your MPLS network and leave more bandwidth for voice, video and other critical applications. The Virtela Local Internet solution:

- Eliminates MPLS network congestion resulting from cloud applications
- Improves the performance of your business-critical applications
- Avoids costly MPLS upgrades for growing Internet bandwidth requirements

CLOUD SERVICES OPTIMIZATION

More and more enterprises are turning to cloud applications and services to simplify IT, reduce costs and improve the end-user experience. But many enterprises are finding that their legacy WAN architectures can't effectively support these rapidly growing and complex applications. The common practice of backhauling Internet traffic through central gateways slows application performance.

The Virtela Local Internet solution features a cloud-ready network architecture that localizes and optimizes access to Internet and cloud applications, enabling you to leverage:

- Today's innovative cloud-based applications, with zero upfront capex
- A more widely distributed Internet gateway infrastructure and lower-latency access to cloud applications for your branch-office end users
- A multi-option, cloud-based, distributed security platform with centralized control, with the flexibility to match your corporate security policies

TAKEAWAY

TRANSFORMING YOUR NETWORK

Globalization and the explosion of Internet usage are compelling CIOs to implement a next-generation WAN architecture. Virtela's innovative Local Internet solution can cost-effectively, seamlessly and securely transform your global network into a high-performance infrastructure. The solution improves MPLS performance, enhances Internet and cloud application performance, reduces investment costs and empowers you to better meet the needs of your end users around the world.

“*Virtela localized our Internet connectivity and moved our Internet traffic to our backup network, which freed up MPLS bandwidth. Our business-critical applications now perform better and end users can access cloud-based applications twice as fast.*”

— **Dennis Jones**
Global Infrastructure
Manager, GrafTech

DID YOU KNOW?

Approximately 90% of organizations backhaul Internet traffic from branch offices to corporate data centers (2012 Cloud Networking Report), typically traversing very long distances. Guess what a recent ESG Research study discovered was the top priority for CIOs tasked with enabling remote and branch office locations: Improving application performance for end users. Let us show you how Virtela's Local Internet solution can help you tackle this performance challenge.