VidyoCloud

Architecture Overview

F or organizations that need high quality video conferencing and want to avoid burdening their IT staff and resources, VidyoCloud is a hosted video collaboration solution that provides the highest quality available in any network environment, even wireless and mobile.

VidyoCloud leverages AgileCLOUD by Internap, a platform designed to meet the demands of large-scale, performance-intensive workloads. Powered by OpenStack® technology, AgileCLOUD is built on a standard-based platform with high-performance infrastructure.

AgileCLOUD Features & Benefits

Massive Scalability

Deployment and management of hundreds of virtual cloud instances in minutes, allowing VidyoCloud to rapidly increase capacity as demand grows

High-Performance Storage

SSD-backed ephemeral and persistent storage; guaranteed IOPS for each persistent storage volume, enabling VidyoCloud to reliably store recordings
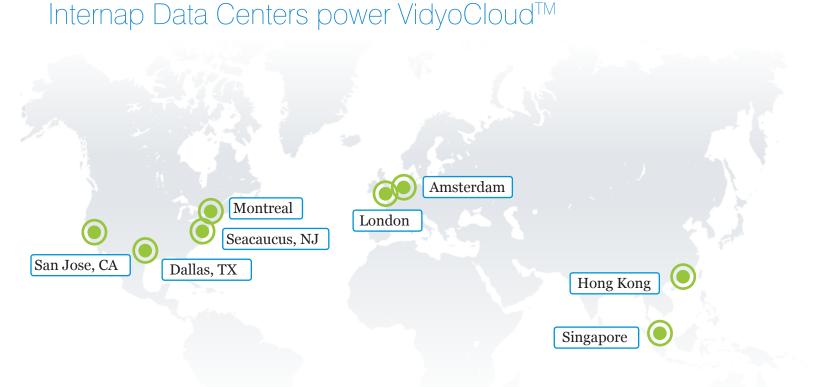
Optimized Network

Route-optimized Performance IP™ technology delivers consistently higher performance and lower latency to end users

Global Presence

Meet performance and scalability demands of customers across North America, Europe and Asia

Internap Data Centers power VidyoCloud™

San Jose, CA

Dallas, TX

Montreal

Seacaucus, NJ

London

Amsterdam

Hong Kong

Singapore

Designed with the future in mind, Internap's premium data centers sit on the edge of the most robust network backbone available. Internap's secure SOC 2 and HIPPA compliant facilities, conveniently located in major metropolitan areas, feature concurrently maintainable N+1 design for all mechanical and electrical components meaning any element in the system can go offline without affecting uptime.

These carrier-neutral data centers also include network-based route optimization services, as well as the support, security and monitoring services you expect. When combined with Internap's industry-leading Service Level Agreements (SLAs), our colocation solution has no equal.

Current VidyoCloud data centers

Performance IP™ for Managed Internet Route Optimization™

V idyoCloud also leverages Performance IP™, which is Internap's next-generation Managed Internet Route Optimization™ (MIRO). This combined with Vidyo's patented dynamic network adaptation means participants receive the highest quality possible in the most efficient manner possible.

Performance IP service helps reduce latency and improve network consistency by combining multiple carrier backbones and real-time route optimization that leverages Managed Internet Route Optimizer™ (MIRO) technology. VidyoCloud routes traffic over redundant, high-speed connections and dynamically connect you to the best performing route across the Internet insulate your traffic from the risk of network outages, providing reliable, stable and consistent connectivity.

Performance IP enables VidyoCloud to deliver industry-leading performance at the extreme ends of the quality spectrum. In robust network environments that leverage 4k and 5k displays, VidyoCloud delivers the most stunning quality imaginable, up to 16x better than the status quo 720p.

Powered by Internap, VidyoCloud provides robust delivery of your content and communications throughout the world over a fail-safe network that features end-to-end N+1 redundancy, beginning with the customer handoff and running all the way to Internap's core routers and carriers. The VidyoCloud service is backed with an industry-leading SLA, exclusive Private Network Access Point (P-NAP®) architecture, patented MIRO technology and Internap's award-winning Network Operations Center. All network carriers experience outages. Internap's route optimization technology always selects the best-performing, most available path. The result: the best possible experience for your end users.

Performance IP Benefits

Redundant, high-speed connections to major Internet backbones offer unmatched reliability, resulting in a stable end-user Internet experience.

Industry-leading Service Level Agreement (SLA) supports the highest of uptimes, resulting in fewer abandoned sessions.

Intelligent route-optimizing technology dynamically identifies the best path for your Internet applications. World-class 24/7 Network Operations Center (NOC) frees you from managing connectivity, complexity and Network Service Provider relationships

Global Internap Performance IP Locations

4 Continents

24 Major Metropolitan Areas

80 Private Network Access Point (P-NAP®) locations

VidyoCloud™ Overview

For organizations that need high quality video conferencing and want to avoid burdening their IT staff and resources, VidyoCloud is a hosted video collaboration solution that provides the highest quality available in any network environment. In fact, VidyoCloud delivers industry-leading performance at the extreme ends of the quality spectrum. In network challenged environments, like mobile and wireless, VidyoCloud offers unsurpassed error resiliency, and can even adapt to 20% packet loss – more than double the industry average.

Additionally, for organizations with large corporate offices, VidyoCloud goes a step further: superior hybrid support can mitigate bandwidth utilization where there are large concentrations of users. VidyoCloud's infrastructure uniquely supports VidyoRouter cascading, which provides immediate, continuous adaptive, bandwidth optimization, and supports mixed-mode cloud & on-premises. This helps IT organizations save on expensive WAN bandwidth.

Scalable
Easily deploy, scale and support

Interoperability
Support interoperability with third-party H.323 and SIP based systems

Cost-Effective
Reduce capital costs to support endpoint growth in small rooms, desktops, and mobile devices

B2B & B2C
Enable external participants to participate in video meetings

Secure
Meet enterprise security standards with TLS, SRTP, H.235, and AES 128-bit encryption

4K & Beyond
Experience up to 4K and 5K quality video and shared content

Millions of users around the world visually connect every day with Vidyo's secure, scalable technology and cloud-based services. Vidyo offers video collaboration solutions for companies that require the highest quality video interaction available. Recognized with over 120 patents, the company's software platform and APIs are used by enterprise customers, service providers, and ecosystem partners to create innovative HD quality video-enabled applications embedded into workflows and emerging IoT devices. Learn more at www.vidyo.com, zon the blog, or follow Vidyo on Twitter @vidyo and on Facebook.