Enable Enterprise-Grade Unified Communications Experience with Cloud-Delivered WAN

With today's distributed workforces, enterprises are increasing their reliance on Unified Communications (UC) solutions to enable collaboration and reduce costs.
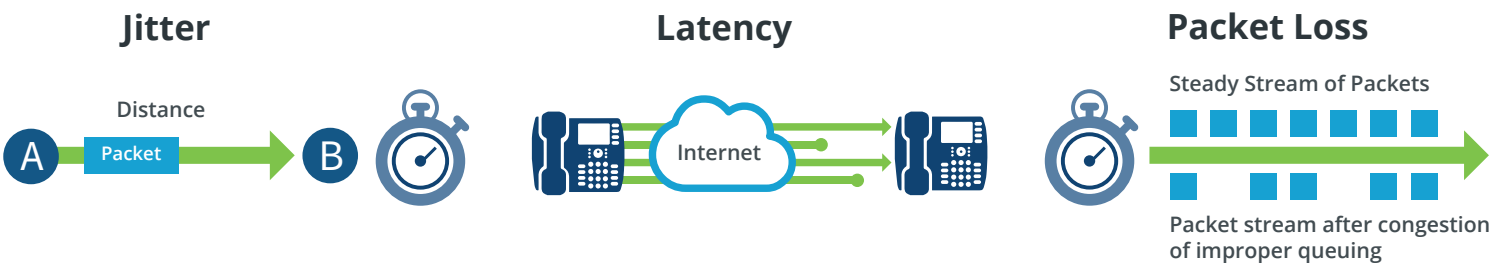
Cloud-delivered WAN Unified Communications without the cost and complexity of a traditional WAN.

Growth Of Unified Communications in Enterprise

Delivering a combination of real time voice, video, and data is bandwidth intensive and requires complex network configuration to ensure the delivery of these time sensitive applications. Enterprises often find themselves in situations where the branch bandwidth is insufficient or the aging infrastructure cannot support the UC rollout. Expensive WAN upgrades can delay the rollout or make the business case of deploying UC unattainable.

WAN Bandwidth Challenges & The Broadband Alternatives

Ease of access to broadband Internet such as cable, DSL, or 4G provides options to enterprises to consider using broadband Internet to augment limited WAN bandwidth to deliver UC application. However, broadband Internet may, at times, experience congestion, which results in increased latency, packet loss, and jitter. These conditions degrade the Quality of Experience (QoE) demanded by the end users.

Jitter

Distance

A Packet B

Latency

Internet

Packet Loss

Steady Stream of Packets

Packet stream after congestion of improper queuing

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VeloCloud Cloud-Delivered WAN Enables Enterprise-grade UC

The VeloCloud solution is deployed into environments which contain multiple links—any combination of broadband, cellular, and private WAN. The solution consists of an Edge device, which terminates multiple WAN links, a global network of cloud gateways, and an Orchestrator which manages the solution. The solution simplifies the rollout by providing ease of network configuration and monitoring of key performance metrics. VeloCloud's Dynamic Multi-Path Optimization provides dynamic application steering and on-demand link conditioning to deliver high quality UC experience over any type of connectivity. VeloCloud incorporates several features to enable enterprise-grade UC:

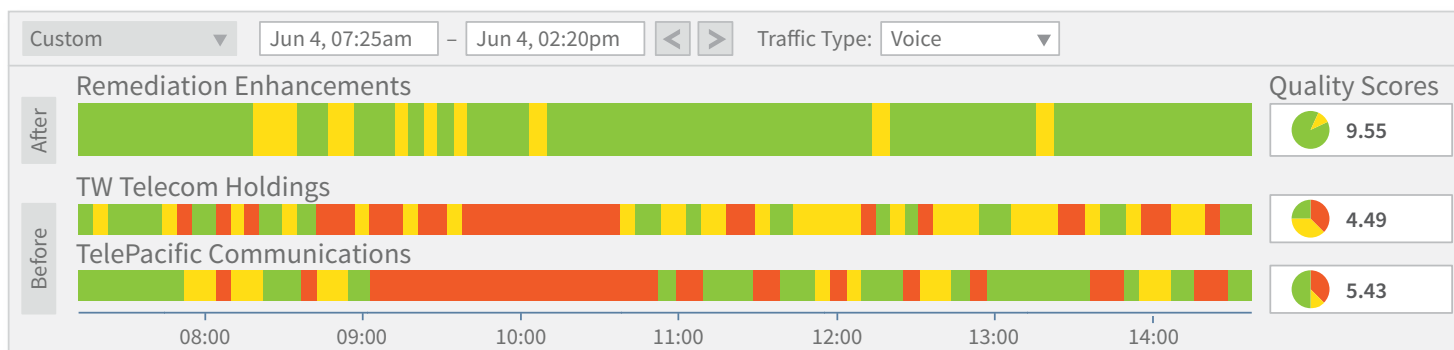### Automatic Application Recognition and Prioritization of Realtime Voice and Video

- Smart Default provides out-of-the-box, differentiated treatment between business and recreational voice and video applications. Business related traffic such as RTP and RTCP, are given higher priority treatment than audio and video traffic that is considered recreational.

- Built-in deep-packet inspection (DPI) and device fingerprinting identify business voice and video media traffic and the actual application traffic generated by the device. The classification information is used to determine how to handle traffic steering, bandwidth managment, and link conditioning.

Simplified Monitoring & Troubleshooting with Cloud-based Management

- VeloCloud Orchestrator provides a single pane of glass for provisioning, managing, and monitoring the solution. It provides historical and real time link performance as well as reports actions applied and results achieved.

Dynamic Multi-path Optimization

- By constantly monitoring all available link conditions and bandwidth, VeloCloud can steer latency and loss sensitive voice and video media traffic. The Dynamic Multi-path Optimization corrects packet loss on demand and reduces the effect of jitter typically seen on broadband links and hybrid WAN.

Custom ▼	Jun 4, 07:25am – Jun 4, 02:20pm	< >	Traffic Type: Voice ▼

After — Remediation Enhancements | Quality Scores: 9.55

Before — TW Telecom Holdings | 4.49
Before — TelePacific Communications | 5.43

08:00 09:00 10:00 11:00 12:00 13:00 14:00

Real time and historical performance information and actions applied to the application.

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