FEATURES & BENEFITS

Fusion SD-WAN™ increases agility and cost effectiveness, while assuring application performance across the WAN.

· Single-Click Enterprise-Wide Business Policies

· QoS Flexiblity

· Connectivity Aggregation and Dynamic Optimization

· Traffic Shaping

· Assured Application Performance

· Unified and Robust Security

Enterprise WAN Agility, Simplicity and Performance with Fusion Software-Defined WAN (SD-WAN)

Today's enterprise office users are consuming more wide area network (WAN) bandwidth as they collaborate online (e.g., Salesforce, WebEx, Office 365), increase the use of Software-as-a-Service (SaaS) and cloud services, access large rich-media files, and leverage other bandwidth-intensive applications. Corporate IT managers are facing significant challenges addressing these demands due to the complexity, cost and static architecture inherent in their existing WAN.

The vast majority of branch office WAN traffic is carried over expensive leased lines (private MPLS circuits) or unpredictable Internet connections (DSL, Cable, 4G) — neither of which is ideal on its own. Deploying leased lines for all bandwidth needs is cost prohibitive and time-consuming, while adopting the public Internet — with its lack of uptime, reliability and performance guarantees — may result in a poor user experience.

Fusion Cloud-Delivered SD-WAN enables enterprises to support application growth, network agility and simplified branch implementations while delivering optimized access to cloud services, private data centers and enterprise applications simultaneously over both ordinary broadband Internet and private links.

Solution Overview

Fusion Cloud-Delivered SD-WAN combines the economics and flexibility of a hybrid WAN with the deployment speed and low maintenance of a cloud-based service. It includes policy-based network-wide application performance, visibility and control while dramatically simplifying the WAN by delivering virtualized services from the cloud to branch offices.

The Fusion Edge appliance is a compact, thin edge device that is zero-touch provisioned from the cloud for secure, optimized connectivity to applications and data.

The Fusion Edge with Dynamic Multi-Path Optimization (DMPO) and deep application recognition aggregates multiple links (e.g. Private, Cable, DSL, 4G-LTE) and steers traffic over the optimal links to other on-premises Fusion Edges in branch offices, private data centers, campuses, and headquarters. The Fusion Edge can also optionally connect to the system of global Fusion Gateways as shown in Figure 2 to provide performance, security and visibility for cloud services (SaaS, IaaS, B2B Internet).

This system of Fusion Gateways is deployed at top-tier cloud data centers to provide scalable and on-demand cloud network services. Fusion Gateways implement Fusion cloud VPN and Fusion Multisource Inbound Quality of Service between global cloud services (SaaS, IaaS, network services) and each Fusion Edge, enabling multiple broadband and private leased lines to appear as a single, high-performance WAN. The cloud-based Fusion Orchestrator is used to provision network-wide business policy, enable services insertion, perform real-time monitoring and analyze application performance.
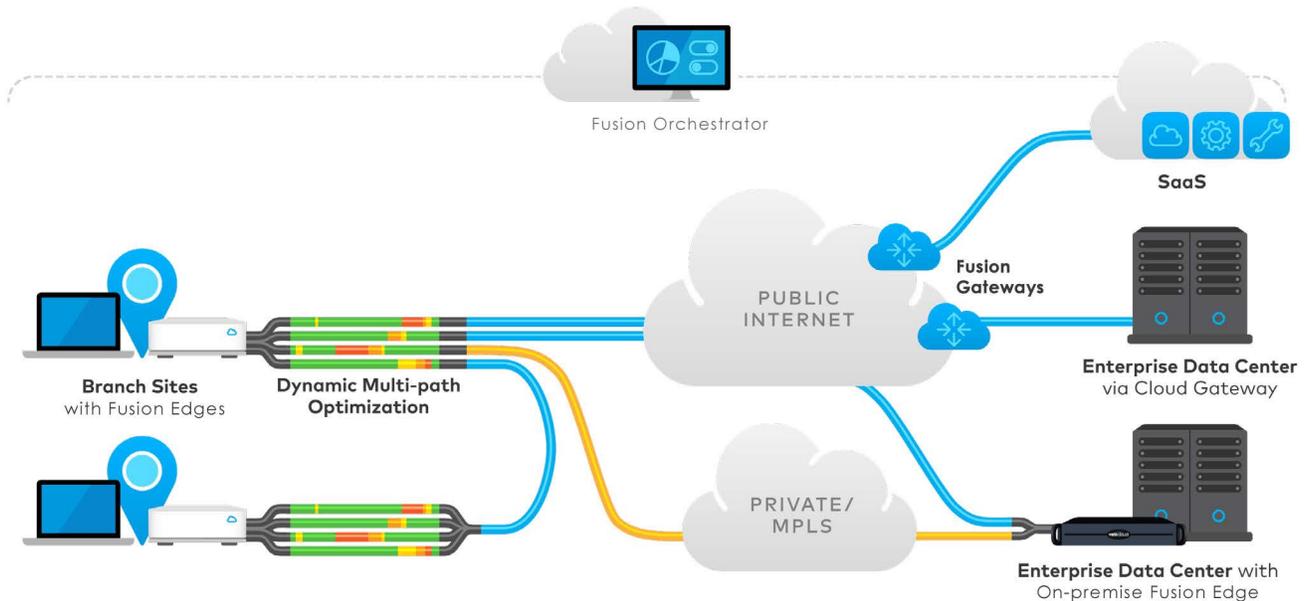

Figure 1. Fusion Cloud-Delivered SD-WAN Service

SD for the WAN

Fusion Cloud-Delivered SD-WAN brings SDN concepts to the enterprise branch WAN. Business policies implemented across the logical overlay deliver abstraction of application flows from the underlying physical transport. Agility is achieved based on adjusting forwarding to meet policy as well as real-time link conditions. SD-WAN has a distributed control plane for forwarding decisions to be made locally with context, so there are no latency issues nor points of failure across the WAN. Yet each SD-WAN node receives centralized control policies for easy programmability and enterprise wide visibility.

Solution Benefits

The WAN is in transition as enterprises seek to improve agility and economics, and adapt to the shift of applications to the cloud. Fusion Cloud-Delivered SD-WAN offers enterprise-grade performance, security, visibility, and control over both public Internet and private networks. Fusion dramatically simplifies the WAN with zero touch deployment, one-click business policy and services insertion, and cloud-based network as a service.

Fusion's SD-WAN provides an economical solution that enables cloud-ready, secure-networking functionality married to simplicity in management.

For more information about Fusion and Fusion Cloud-Delivered SD-WAN, visit www.fusionconnect.com.