



# SD-WAN

A Business-Driven SD-WAN: a unified SD-WAN platform designed for today's cloud-first enterprise

## Transform to a Business First Networking Model

As the adoption of cloud-based applications grows, geographically dispersed enterprises increasingly view the wide area network (WAN) as critical to connecting users to applications.

The software-defined wide area network (SD-WAN) is a virtual WAN architecture that uses a centralised control function to securely and intelligently direct application traffic across the WAN. An SD-WAN provides enterprises with the flexibility to use any combination of transport services- including MPLS, 4G/5G and broadband internet services.

With SD-WAN, it allows today's geographically dispersed enterprises to realize the transformation promise of cloud computing, lowering capital and operational costs, providing the best possible experience for employees and customers, and adapting rapidly to evolving market requirements.

We've partnered with Silverpeak, the global SD-WAN leader to provide networking software that enables enterprises to build a modern WAN that drives maximum value from cloud and digital investments. The Unity EdgeConnect SD-WAN edge platform delivers a self-driving wide area network that continuously learns and adapts to the changing needs of businesses. The EdgeConnect platform replaces routers, unifying SD-WAN, firewall, segmentation, routing, WAN optimization and application visibility and control in a single centrally managed platform.

### Today's Enterprise Network Challenges

- Unpredictable Response Times
- 
- Application Classification
- 
- Support A Multi-Cloud Strategy
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- High Operation Cost Performance
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- Poor Network Visibility
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- Unsecure & Unreliable Network

## Benefits



### Increased Agility

Software centricity allows for quick adaptations to changes, such as adding access or connecting new sites within minutes



### Simplified Management

Flexible deployment with easily updatable plug 'n' play configurations



### Better Control

Centrally located orchestrator that enables automation & near real-time analytics and reporting



### Increased Performance

Increase app performance and availability on any type of transport with integrated WAN optimisation



### Enhanced Security

Improved WAN security with zone-based firewall & network segmentation & integration with leading cloud security provider

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“Epsilon SD-WAN enables enterprises to drive maximum value from their cloud and digital transformation investments”.

### Sergio de Oliveira

Global Product Manager  
Epsilon

## How Enterprises Benefit



### Reduced Cost

Unified platform enables businesses to have the freedom to choose the most cost-effective type of network without worrying about performance



### Increased Performance

Efficient IT resource utilisation & IT responsiveness for business policy changes



### Improved Business Productivity

Support business growth with reliable and secure network and enhanced customer satisfaction and profitability



### Rapid Time-To-Market

Fast network deployment to support customer business expansion and accelerated ROI on network and cloud investment



### Minimizes Risk

Minimize risk by delivering consistent network and security policies

## SD-WAN for Cloud-First Enterprises

A unified SD-WAN platform designed for today's cloud-first enterprise comprises the main components: **Unity Orchestrator, Epsilon Global Network, Unity EdgeConnect and Boost WAN Optimization.**

**Unity Orchestrator** has a user-friendly interface that provides unprecedented visibility into both data centre and cloud-hosted applications. Orchestrator enables secure zero-touch provisioning of SD-WAN appliances in the branch and enables IT to centrally configure business intent policies to automatically secure and control WAN traffic.

**Epsilon Global Fabric** is a global network with over 280 PoPs that provides carrier grade Ethernet service and dedicated cloud connection to 6 of the world's leading cloud service providers.

**Unity EdgeConnect** physical and virtual appliances serve to build an advanced SD-WAN fabric. EdgeConnect replaces conventional routers and firewall at the branch, unifying SD-WAN, routing, firewall, segmentation, application visibility and control and WAN optimization in a single centrally managed platform.

**Unity Boost WAN Optimization** combined with EdgeConnect and Epsilon Global Fabric delivers application acceleration and data reduction. Data intensive applications are accelerated with less latency and less repetitive transmission of duplicate data.

## Features

- **Zero Touch Provisioning** – A plug and play deployment model to be deploy at a branch office in minutes
- **Central Management** – Orchestrator in control for both network and application policies
- **Application Visibility** – App throughput usage, latency, jitter stats across all network, devices and users
- **Performance Based Routing** – First packet path selection for better performance
- **WAN Optimization** – Latency mitigation and data reduction
- **Support The Most Applications** – Able to support up to 10k applications websites and updates continually
- **Seamless Cloud Security Integration** – Able to integrate with market leading cloud security and Zero Trust Network Access (ZTNA) providers with single screen management and reporting
- **Epsilon Global Network** – Epsilon provide both core network underlay and access network through global partners under one service contract

## Key Differences

### Unified Platform

Unified SD-WAN + WAN Optimization solution



### Quality Of Experience

Strongest capability of improving link quality



### Dynamic Path Selection

Fast failover & packet-based load balancing



### High Performance Internet Breakout

1<sup>st</sup> packet IQ to recognise SaaS applications (DNS cache)



### Integrated Firewall

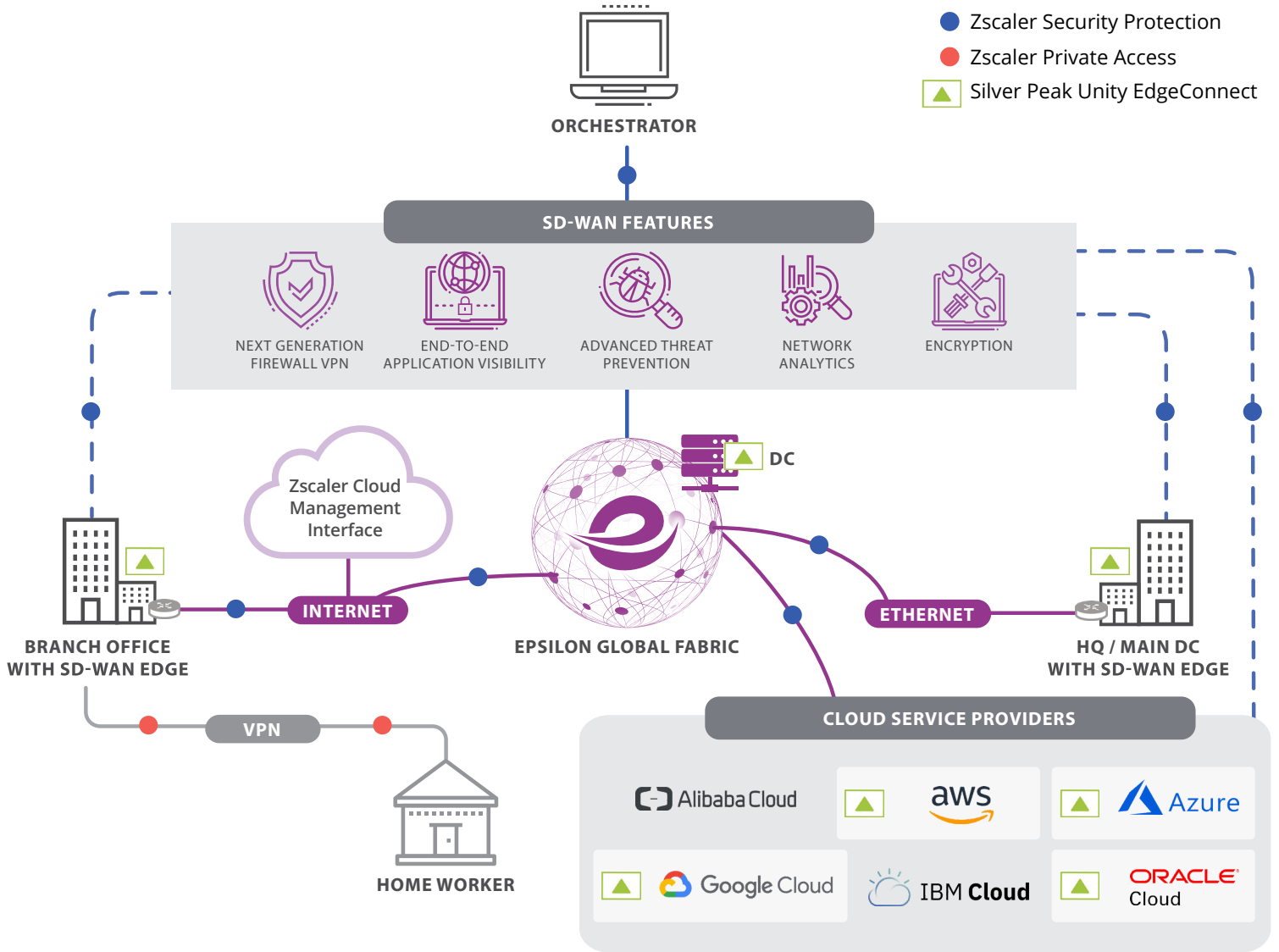
In-built application base zone-based firewalls with Matrix view



### Epsilon's Core Network As Underlay

MEF2.0 certified carrier grade global network provides service level assurance - up to 99.95% availability

# Architecting A Secure Enterprise-Class SD-WAN



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