Peplink and SD-WAN

What is Software-Defined WAN (SD-WAN)?

- A revolutionary way to **simplify branch office networking** and assure optimal application performance by using centrally controlled and managed WAN virtualization.

- Unlike traditional WANs, SD-WAN delivers **increased network agility and cost reduction**, abstracting the network hardware from the applications that use the network.

SD-WAN Operating Requirements (Gartner, 2015)

1) SD-WAN solutions provide a lightweight replacement for traditional WAN routers, and are agnostic to WAN transport technologies (that is, they support MPLS, Internet, Long Term Evolution [LTE], etc.).

3) SD-WAN solutions dramatically simplify the complexity associated with management, configuration and orchestration of WANs.

2) Based on business and/or application policies, SD-WAN solutions allow for load sharing of traffic across multiple WAN connections in an efficient and dynamic fashion.

4) SD-WAN solutions must provide secure VPNs, and have the ability to integrate additional network services and offload Internet-destined traffic closer to the edge of the network.

-Munch, Slaymaker, Lerner, Rickard. "Market Guide for Software-Defined WAN", Gartner, Dec 2015

SD-WAN: Rapidly Emerging Terminology

SD-WAN (Software-Defined WAN) is a rapidly emerging terminology that is picking up at an astonishing rate.

Number of Times "SD-WAN" Was Searched on Google Each Month
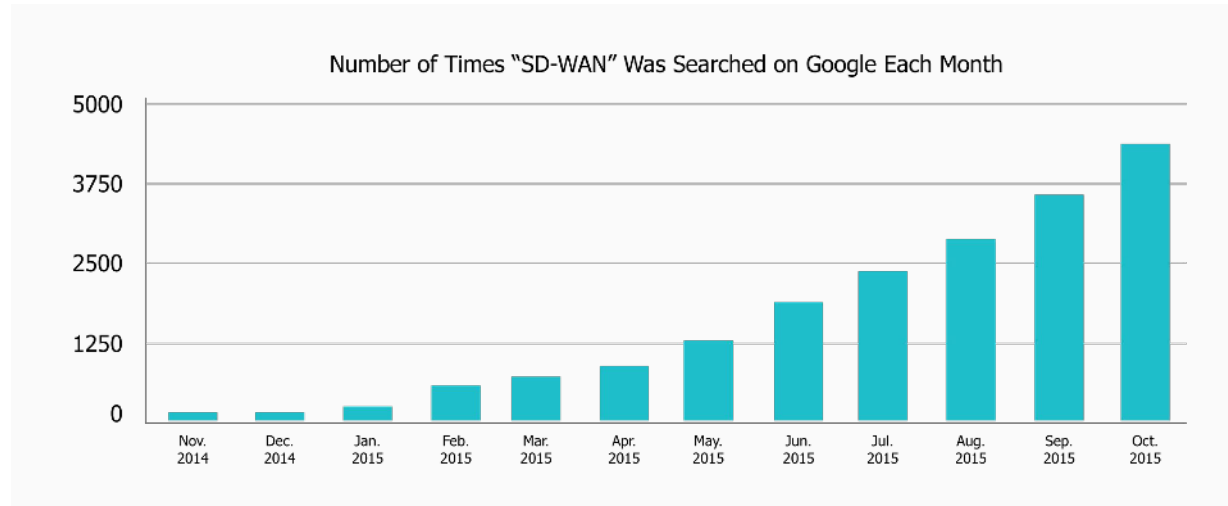
Current Enterprise Adoption of SD-WAN products:	

1%

Projected Adoption by 2019:

30%

Source: Gartner, 2015

On Dec. 1st, 2015. Gartner published the *Market Guide for Software-Defined WAN.*

Why is Peplink Adopting SD-WAN Terminology?

- By Gartner's definition, Peplink has been providing SD-WAN solutions for almost a decade!

- SD-WAN is the first standard industry-wide term that neatly describes our technology and product capabilities.

- Using this term can simplify product descriptions to end users.

- This term is useful for avoiding confusion with traditional (server) load balancing products.

- **Note**: SD-WAN does not replace any existing Peplink terms.
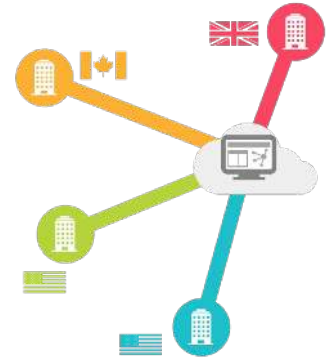
How SD-WAN Fits With Peplink?

WAN Virtualization

Peplink routers enable you to build one logical WAN connection using multiple technologies (e.g. xDSL, MPLS, cellular, fiber)

SpeedFusion

MPLS Fiber DSL Cellular
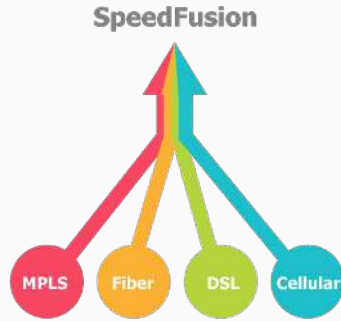
Centrally Managed

Using InControl 2, network administrators gain full control over their networks using a single interface.

Secure VPN

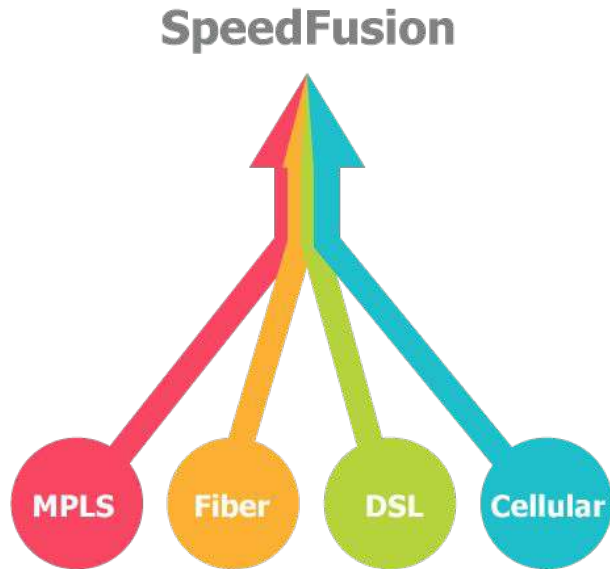Using SpeedFusion VPN technology, branch offices gain secure, local network access to cloud resources

CRM, ERP

Intelligently Managed

Peplink routers actively monitor WAN quality and makes intelligent decisions to direct application traffic flow.

MPLS Fiber DSL Cellular

peplink

POS CRM ERP http://
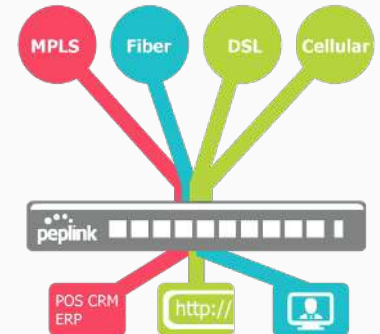
WAN Virtualization

SpeedFusion

SD-WAN solutions provide a lightweight replacement for traditional WAN routers, and are agnostic to WAN transport technologies (that is, they support MPLS, Internet, Long Term Evolution [LTE], etc.)."

- Gartner, 2015

- Peplink Routers support multiple connectivity technologies (e.g. xDSL, MPLS, cellular, fiber) can be combined to form one logical WAN connection via PepVPN and SpeedFusion.

- InControl 2 then enables this connectivity to users and applications as a single direct connection to the Internet or secure site to site connection.

- Using FusionHub, you can form hybrid WAN links between your routers and your virtual servers.

Centrally Managed
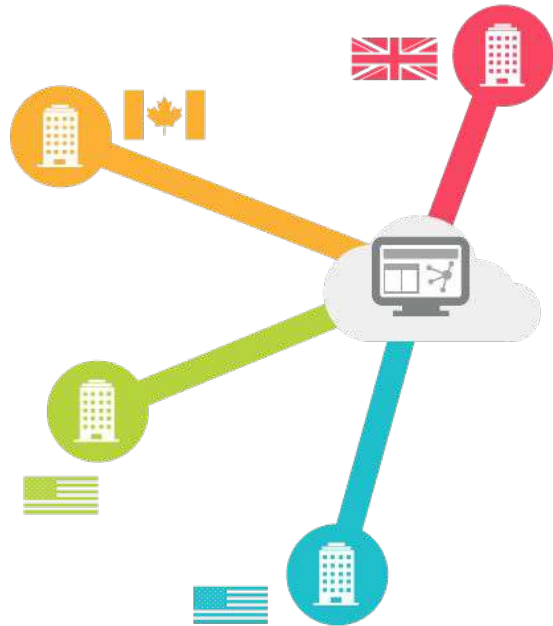
> " SD-WAN solutions dramatically simplify the complexity associated with management, configuration and orchestration of WANs."
>
> - Gartner, 2015

- InControl 2 gives network administrators full control over their wide area networks using a single interface.

- Complex VPN configurations connecting thousands of branch offices together securely can be created and deployed automatically

- Centralized WAN monitoring and notifications provide a real time view of WAN health and globally branch office availability.

Secure VPN

> **"**
>
> *SD-WAN solutions must provide secure VPNs, and have the ability to integrate additional network services and offload Internet-destined traffic closer to the edge of the network."*
>
> - Gartner, 2015

- Using PepVPN and SpeedFusion, branch offices gain secure, local network access to cloud resources.

- Peplink routers can integrate network services and offload Internet traffic at the network edge, reducing traffic sent through VPN.

- By using multiple connections (e.g. 2x DSL, 1x LTE), Peplink routers are able to achieve high reliability at a relatively low cost.

CRM, ERP

Intelligent Traffic Management
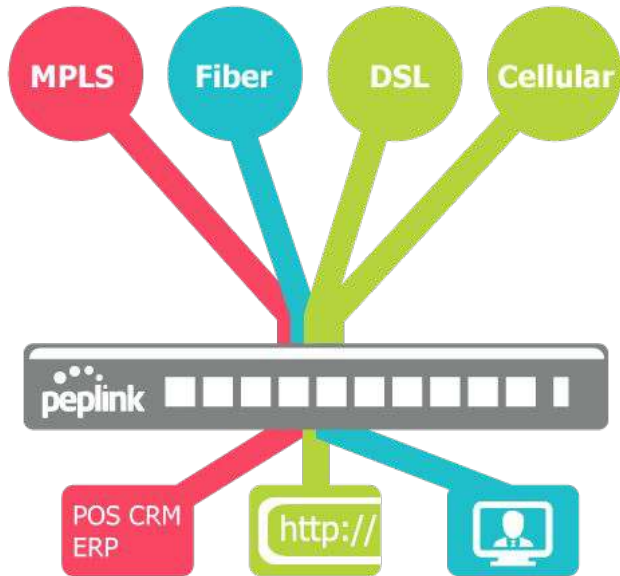
" Based on business and/or application policies, SD-WAN solutions allow for load sharing of traffic across multiple WAN connections in an efficient and dynamic fashion."

- Gartner, 2015

- Actively monitors WAN quality and makes intelligent decisions to direct application traffic flow.

- Traffic can be directed depending on application (e.g. POS/CRM/ERP → MPLS, videoconferencing → fiber, web traffic → DSL)

- Once configured, traffic management requires no human interaction.

The Peplink SD-WAN Advantage

A Leader in WAN Virtualization
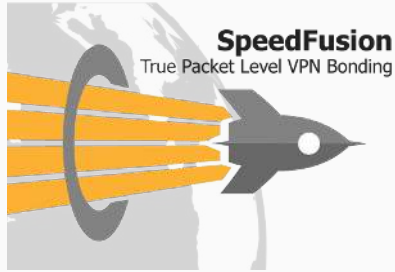
InControl 2: SD-WAN Controller

Vast Array of Mobile Products

SD-WAN Virtual Appliance