



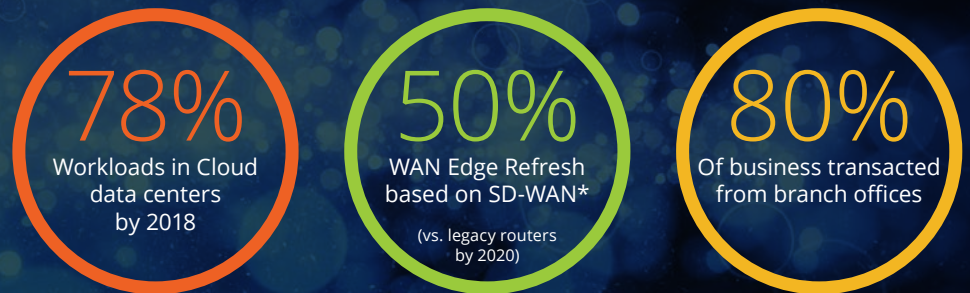
The Top 10 Reasons to Replace Your Branch Router with SD-WAN

An eBook presented by Silver Peak Systems



MODERN ENTERPRISES RUN IN THE CLOUD. TRADITIONAL ROUTER-CENTRIC WAN ARCHITECTURES WEREN'T DESIGNED FOR TODAY'S CLOUD- FIRST ENTERPRISES.

Why? Because routers weren't designed to bond broadband and MPLS links in an active/active mode. And they can't intelligently and securely direct SaaS and IaaS traffic directly from the branch to the cloud over the internet. This eBook outlines the top 10 reasons to replace your branch routers with an application-driven SD-WAN edge.



Sources: IDC, ZK Research, Gartner



#10

ROUTERS CAN'T DISTINGUISH TRUSTED WEB-BOUND TRAFFIC FROM UNTRUSTED AND MUST EITHER DIRECT ALL TRAFFIC TO THE INTERNET OR BACKHAUL IT TO THE DATA CENTER

MIGRATING APPLICATIONS TO THE CLOUD

HOW SD-WAN DELIVERS:

- > Enables secure 'direct-to-net' access from branch offices to trusted SaaS applications and IaaS instances, maintaining peak performance and availability
- > Centralizes orchestration and enforcement of consistent security policies for connecting users to applications whether they reside in the cloud or in the data center
- > Simplifies and consolidates branch office WAN infrastructure, providing the foundation for a cloud-first enterprise

#9

USERS KEEP
CALLING THE IT
HELP DESK,
COMPLAINING
ABOUT POOR SAAS
PERFORMANCE

POOR SAAS APPLICATION PERFORMANCE

HOW SD-WAN DELIVERS:

- > Connects users directly from branch offices to trusted SaaS applications, eliminating performance-impairing backhaul
- > Automatically directs unknown traffic to security services on an application-by-application basis in accordance with security policy
- > Maintains optimal access to SaaS applications with daily automated IP address updates

#8

ROUTERS CAN'T
OVERCOME THE
IMPACT OF WAN
PACKET LOSS THAT
RESULTS IN POOR
VOICE AND VIDEO
COMMUNICATIONS

INCONSISTENT VOIP AND VIDEO QUALITY

HOW SD-WAN DELIVERS:

- Assures audio clarity and video quality even when WAN underlays experience brownouts or outages
- Maintains application SLAs using any combination of underlying transport services
- Unique capabilities to ensure broadband and 4G/LTE links perform as well as a private line
- Eliminates calls to the IT Help Desk because of poor communication quality

#7

SERVICE, SUPPORT
AND MAINTENANCE
IS COSTLY FOR
TRADITIONAL
BRANCH ROUTERS

EXORBITANT ROUTER SUPPORT AND MAINTENANCE COSTS

HOW SD-WAN DELIVERS:

- > Realize up to 30 percent savings in initial installation, configuration and deployment costs
- > Achieve more than 50 percent savings in hardware and software licensing and service and support costs
- > Gain as much as 80 percent savings in ongoing operational and management costs
- > Integrate core network functions, including SD-WAN, WAN optimization, routing and security within a single solution

#6

ROUTERS RELY ON EXPENSIVE MPLS SERVICES THAT HAVE LONG LEAD TIMES FROM PROVIDERS AND REQUIRE MANUAL DEVICE-BY-DEVICE PROVISIONING

SLOW TO DEPLOY NEW BRANCHES

HOW SD-WAN DELIVERS:

- > Reliably and securely use ubiquitous broadband services to bring new sites online in days vs. months
- > Bring new sites online with LTE when MPLS or broadband services are unavailable
- > Centralized orchestration and zero-touch provisioning eliminate the need for specialized IT resources at every branch location

#5

CONFIGURING QOS
AND SECURITY
POLICIES, DEVICE-
BY-DEVICE USING
AN ARCANE CLI
IS PAINFUL, TIME-
CONSUMING AND
ERROR-PRONE

MANUAL CLI-BASED CONFIGURATION AND MANAGEMENT

HOW SD-WAN DELIVERS:

- > Centralized orchestration with an intuitive GUI streamlines WAN infrastructure management
- > Zero-touch provisioning requires no specialized IT resources at the branch
- > An application-driven architecture steers traffic based on business policies, not TCP/IP addresses
- > Expedites onboarding of new sites and applications
- > Ensures consistent configurations across all branch locations in accordance with business intent

#4

ROUTERS AREN'T
DESIGNED TO
ACTIVELY UTILIZE
MPLS AND
BROADBAND
SERVICES
SIMULTANEOUSLY

BROADBAND RELEGATED TO FAILOVER ONLY

HOW SD-WAN DELIVERS:

- > Enables IT to embrace broadband as an active WAN transport – not just for failover
- > Delivers predictable application performance by actively using multiple transport services
- > Increases application and network availability
- > Enhances business productivity and lowers overall WAN costs

#3

OFTEN, TWO
OR MORE MPLS
CIRCUITS MUST BE
PROVISIONED TO
DELIVER HIGH
AVAILABILITY IN
ROUTER-CENTRIC
WANS

IT'S MPLS CONTRACT RENEWAL TIME

HOW SD-WAN DELIVERS:

- > Actively utilizes any combination of broadband services to augment or even replace MPLS, increasing performance and availability while further lowering costs
- > Enterprises regain control over WAN and realize the cost benefits of carrier diversity

#2

CONVENTIONAL
ROUTER-CENTRIC
WAN ARCHITECTURES
ARE RIGID AND
COMPLEX TO
MANAGE AND
REQUIRE SEPARATE
FIREWALLS AND
WAN OPTIMIZATION
APPLIANCES

SIMPLIFY AND CONSOLIDATE THE WAN EDGE

HOW SD-WAN DELIVERS:

- > Simplifies and consolidates WAN infrastructure footprint at the branch
- > Integrates SD-WAN, WAN optimization, routing, and a firewall into a single, fully integrated solution
- > Centralizes orchestration and management of all key branch network functions from a single pane of glass
- > Slashes branch WAN edge footprint by up to 75 percent while lowering CAPEX and OPEX

#1

WHEN YOUR
ROUTERS ARE DUE
FOR REFRESH, IT'S
TIME TO EVALUATE
A NEW APPLICATION-
DRIVEN WAN EDGE,
DESIGNED FOR
TODAY'S CLOUD-
FIRST ENTERPRISES

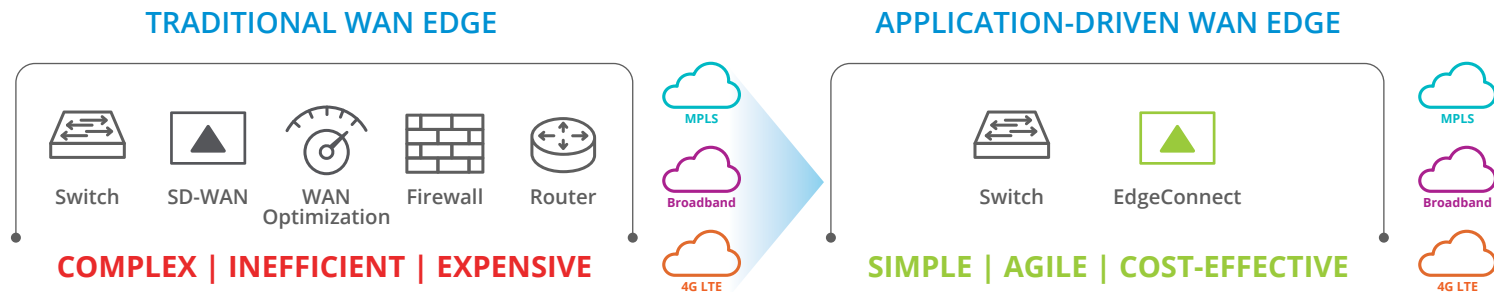
IT'S TIME FOR A ROUTER REFRESH

HOW SD-WAN DELIVERS:

- Automates traffic steering and security policy enforcement based on business intent instead of TCP/IP addresses
- Actively embraces broadband to increase application performance and availability while lowering costs
- Securely and directly connects branch users to trusted SaaS and IaaS
- Increases operational efficiency while increasing business agility and time-to-market via centralized orchestration

WHY SILVER PEAK SD-WAN?

Silver Peak Unity EdgeConnect is the only complete SD-WAN solution for the New WAN Edge



- Deliver QoS over any transport service, including broadband internet services
- Securely connect branch users directly to trusted SaaS and IaaS over the internet
- Segment traffic to meet compliance requirements and steer applications in accordance with business intent
- Automate orchestration to deliver consistent performance and enhance operational efficiency
- Combine integrated best-in-class WAN optimization to accelerate applications as needed



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