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Branch Redefined: Enabling the Distributed Enterprise with SD-WAN

Citrix customers deliver seamless, secure connectivity with a great experience while optimizing network operations

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Leading the way to better branch operations

Enterprises today are transforming, becoming more nimble and distributed, with a changing workforce and an expanding roster of applications. And with this transformation, they face radically changing networking requirements at the branch. For one, a branch can be anything from a regional headquarters or remote clinic to a kiosk in a mall—or even a ship at sea. Wherever people need to work, collaborate, communicate, and serve customers, they rely on continuous network availability and optimal application experience.

In this rapidly evolving environment, SD-WAN is becoming the foundation of the modern enterprise network, providing solutions to the challenges of the distributed organization. With SD-WAN, IT can provide always-on access to applications with a high-quality user experience wherever those applications are hosted. Secure branch connections to the cloud protect data, while simplified operations and centralized management increase efficiency and agility.

Explore real-world benefits realized by companies using SD-WAN and how Branch Redefined makes an impact in a wide range of industries.



The world's 10 largest banks & top 10 global investment companies rely on Citrix.



Any branch, anywhere

See Criteria Checklist

Danish Agrifish | Government

Delivering reliable connectivity from the data center to ships at sea

The challenge

Danish Agrifish faces unique location difficulties, with branches that are literally ships on the ocean. To enforce fishing regulations and prepare for rescue operations, Danish Agrifish crew members rely on data to look up the ships' positions and check their reported catch. While each of its patrol vessels have multiple LTE connections from separate mobile providers, coverage was inconsistent. Vessels often had to turn to expensive satellite connectivity for mission-critical data. As a result, frequent switching among mobile and satellite networks disrupted the flow of operations.

The solution

NetScaler SD-WAN enabled Danish Agrifish applications to seamlessly migrate among mobile connections without disruption or sacrificing security, minimizing satellite use. When mobile connections were unavailable and satellite bandwidth was restricted, granular quality-of-service capabilities allowed the agency to ensure that mission-critical data was prioritized over other applications.

[Read the Full Story >](#) [Watch the Video >](#)


The results

Uninterrupted connectivity for apps and data without sacrificing security

Lower network management costs with a simple-to-use interface to troubleshoot connectivity issues

Improved application throughput with prioritization for critical applications

Better cost control over metered satellite connections



“Our ships have a better chance of planning from a professional perspective instead of constantly having to plan based on a technical limitation.”

Jan Nielsen, Team Leader – IT Infrastructure – Danish Agrifish



Always-on applications

[See Criteria Checklist](#)

The Tile Shop | Retail

Providing a high-quality experience for customer-facing apps

The challenge

The Tile Shop Design Studio app, which lets retail customers visualize their options, requires bandwidth beyond what's needed for traditional point-of-sale systems. In the past, the Tile Shop had relied on a single MPLS line for internal app delivery, as well as a DSL line for Internet access, backup, and customer Wi-Fi. Outages and performance issues impacted business operations, and upgrading these connections would cost \$7,200 per year at each of its 125 U.S. locations.

[Read the Full Story >](#) [Watch the Video >](#)

The solution

The Tile Shop uses NetScaler SD-WAN to bond its existing MPLS and DSL connections, providing the bandwidth needed to support Internet access, backup, customer Wi-Fi, and virtualized internal applications including Design Studio delivered through Citrix XenApp.

The results

Saved more than \$1MM annually by making better use of existing bandwidth

Vastly increased bandwidth, including up to 100M for downstream data

A smoother, more interactive experience for Design Studio, and better performance for retail apps

A differentiated shopping experience for their customers, helping them to compete



“The experience on Design Studio is much cleaner and interactive for both our Sales Associates and customers and has allowed us to keep up with our customers’ digital expectations.”

Keith Hogie – CIO – The Tile Shop



Consistently high application quality

Rehab Management | Healthcare

Improving branch productivity and security while lowering costs

The challenge

Rehab Management provides return-to-work, injury management, ergonomics, and psychological services through a network of offices and field locations across Australia. With only 2 Mbps of bandwidth, the company's MPLS-based WAN was unable to deliver video content and Citrix XenDesktop virtualized applications. This raised concerns about user productivity as well as the prospect of rising IT costs.

[Read the Full Story >](#)

The results

Increased bandwidth 10x to support XenDesktop and video traffic

Avoided the \$2,000-per-location monthly cost of an MPLS upgrade

Reduced costs from \$500/month/location to \$100 by switching to 3 ADSL lines

The solution

With NetScaler SD-WAN, the company was able to eliminate its MPLS connections and make more effective use of the broadband connections in remote locations. It uses NetScaler SD-WAN and XenDesktop to remotely publish apps replicating the Windows environment from its Sydney head office to remote employee devices throughout the country, improving the quality of patient services and increasing workforce mobility and security.

“Tackling the connectivity issue at its core meant no office is at a disadvantage, with cost-effective tools that complement our existing IT infrastructure empowering employees to do their job remotely.”

Boris Kotevski – National IT Manager – Rehab Management

Increased bandwidth
10x while eliminating
MPLS





Optimized operations

[See Criteria Checklist](#)

The Watershed | Healthcare

Ensuring a secure, reliable experience for VoIP and virtual desktops in every location

The challenge

The Watershed provides drug and alcoholism treatment at in-patient facilities and over-the-phone. To support its growing operations, it decided to use XenDesktop. However, the company had rising concerns about user productivity, due to insufficient MPLS bandwidth for delivering applications, XenDesktop sessions, and VoIP calls. Although broadband services were in place for backup purposes, failover occurred too slowly to maintain application sessions.

[Read the Full Story >](#) [Watch the Video >](#)

The solution

The Watershed used NetScaler SD-WAN to combine its MPLS and broadband connections, increasing bandwidth for XenDesktop sessions, VoIP, and other critical traffic. This gave it the network reliability it needed to successfully rely on virtualized desktops at all their locations.

The results

Centralized management of application delivery and network policies

Always-on delivery for XenDesktop, VoIP, and other applications through WAN links running in active-active mode

More intelligent network management of branch facilities with proactive health and performance monitoring of WAN links

Confidence to expand the number of clinics while maintaining a lean IT staff



“We’re able to have an environment that’s stable for our end users and our patients. Citrix gives us the confidence in knowing our network is always available.”

Trevor McCain – Network Engineer – The Watershed

100% uptime
for VoIP and virtual desktops



Strategic agility

PruittHealth | Healthcare

Supports rapid growth with an end-to-end solution to empower branch users

The challenge

PruittHealth provides services across the continuum of care, from post-acute to pharmacy to nursing centers and hospice, for an average of 25,000 patients each day. An acquisition-based growth strategy has nearly doubled the company's size over the last 10 years. In the past, these acquisitions took weeks or months to complete, slowing time to market and increasing costs.

[Watch the Video >](#)

The results

Instant availability of apps for users in a newly acquired or opened location

Nearly \$2.5 million savings in annual carrier charges

Improved security through data centralization

The solution

An end-to-end Citrix solution enables PruittHealth to deliver virtual applications to newly acquired businesses over existing network infrastructure with full security and access control. The solution includes NetScaler SD-WAN for networking, NetScaler Unified Gateway for secure remote access, and XenApp for virtual application delivery.



"Citrix has allowed PruittHealth to be more agile and respond to a changing business environment over the past ten years."

Richard Bailey – VP of IT Operations – PruittHealth

Savings of nearly
\$2.5 million per
year
in carrier charges alone



The networking solution for today's distributed enterprise

As the requirements of digital business drive change in the branch, NetScaler SD-WAN is leading the way to more reliable, secure, and efficient network operations.

Reliable branch access to applications

Employees at remote offices, clinics, and stores can work productively without the risk of losing access to applications due to an outage on a single network link.

High quality application experience

To help employees collaborate and deliver service effectively from any location, NetScaler SD-WAN actively manages and optimizes network traffic to better support unified communications and other high-bandwidth applications.

Secure branch connectivity to the cloud

With a reliable and secure connection from branch locations to the cloud, businesses can have confidence in moving their applications and data to the cloud.

Greater efficiency and scalability

NetScaler SD-WAN uses centralized policy definition to simplify network operation to ensure optimal cost efficiency, performance, and security.



The top 10

global healthcare companies
rely on Citrix.

Next steps:

Learn more about NetScaler SD-WAN and Branch Redefined



Checklist: What to look for when considering SD-WAN >



Learn More

Try NetScaler SD-WAN in your own environment free for 90 days with no commitment

Get Started

Compare NetScaler SD-WAN to the competition

Only NetScaler SD-WAN combines proactive application traffic management, end-to-end QoS, routing, and WAN optimization to deliver a better branch office user experience while lowering network costs, simplifying branch office networking, and providing visibility into application performance.

See how NetScaler measures up against other vendors.

See How

Sales inquiries?

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