



Enabling a distributed workforce with SD-WAN

Real-world examples of how Citrix is helping businesses deliver secure, uninterrupted connectivity — along with a great user experience

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Leading the way to better branch operations

Enterprises today are transforming. They're becoming more nimble and distributed, with a changing workforce and an expanding list of applications. And with this transformation, they face radically changing network requirements at the branch — which can now be anything from a regional headquarters or remote clinic to a kiosk in a mall, or even a ship at sea.

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.

Continue reading to explore three real-world benefits realized by companies using SD-WAN.

Did you know?

Some of the world's largest banks and global investment companies rely on Citrix.

Any branch, anywhere

Danish Agrifish | Government

Delivering reliable
connectivity from the data
center to ships at sea



Danish Agrifish | Government

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 had multiple LTE connections from separate mobile providers, coverage was still 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

Citrix SD-WAN, formerly known as NetScaler SD-WAN, enabled Danish Agrifish applications to seamlessly migrate to mobile connections without disruption or sacrificing security, while 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.

→ 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.”

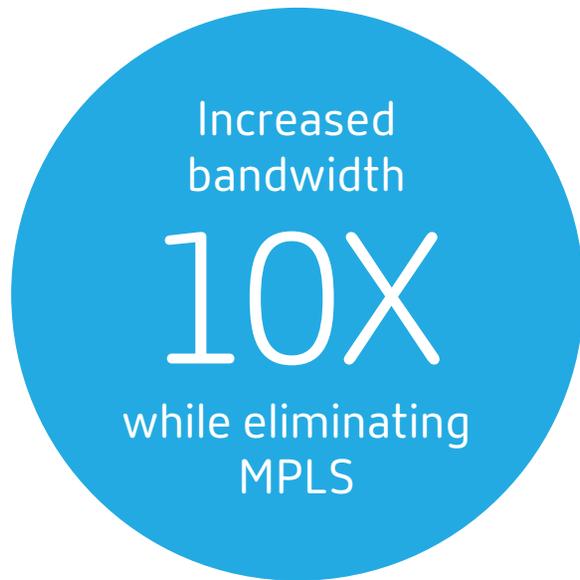
— Jan Nielsen, Team Leader
IT Infrastructure, Danish Agrifish

A close-up, low-angle shot of industrial robotic arms in a factory setting. The scene is dominated by a bright blue light, likely from a laser or high-intensity welding process. Numerous bright orange and yellow sparks are flying through the air, creating a dynamic and energetic atmosphere. The robotic arms are dark and metallic, with various joints and components visible. The background is slightly blurred, showing more of the industrial environment.

Unified global networking

AWL | Manufacturing

Enabling global collaboration
with graphic-intensive
applications on any device



The challenge

AWL provides robotics and automated welding solutions to the automotive and manufacturing sectors. Over several years, it successfully won contracts with some of the world's largest car makers — but such rapid international expansion also created major operational challenges. With design and production processes being completed in multiple locations — including the Netherlands, the Czech Republic, China, the U.S. and Mexico — sharing data and updating information was a cumbersome and complicated process. This lack of virtual collaboration meant employees were uncertain whether they were working on the latest version of design files, and IT management costs were high.

The solution

AWL used Citrix to create a virtual workspace solution that provided the required applications and computing resources for each of the three user profiles: engineers, mechanics, and office workers. NVIDIA virtual graphics processing unit (GPU) software provides the powerful 3D graphics needed for complex computer aided design (CAD) designs; Citrix application delivery provides load balancing in the Netherlands and the China data centers; while Citrix SD-WAN ensures an exceptional, stable user experience.

→ The results

- **One single, global system for AWL employees and supply chain personnel to securely access designs and shared files.**
- **Faster, better network performance with Citrix SD-WAN prioritizing traffic for virtualized CAD applications.**
- **Greater collaboration across continents, especially between mechanics, and engineers.**
- **Lower IT costs since AWL's entire desktop estate is now securely managed from one location**

“With Citrix graphics-accelerated workspaces, we’ve proved that 3D graphics over 9,000 km of long-haul WAN can be done,”

— Rody Kossen,
Senior Systems Engineer, AWL



Intelligent, responsive traffic management

LeasePlan | Automotive

Enhancing customer service
while reducing running costs

LeasePlan | Automotive

The challenge

As a world leader in fleet management and driver mobility, LeasePlan manages more than 1.7 million vehicles in 32 countries from its Ireland-based data centers. Branches are connected by dedicated, multi-protocol label switching (MPLS) lines. MPLS is a mature technology and reassuringly safe, but it's also expensive to run and slow to scale. LeasePlan spent several million a year managing its global network in this way, and activating new circuits could take months. Increasing customer demand for cloud services meant having local 'breakout' connections was ever more important for user experience. LeasePlan's existing solution simply couldn't provide the bandwidth, reliability or latency its business required.

The solution

Using Citrix to deliver virtual desktops and hundreds of applications to its branch locations across a Citrix-powered network, LeasePlan has made significant cost savings while delivering more responsive and agile customer service. Citrix SD-WAN intelligently manages traffic according to its priority and proactively monitors network issues, so critical tasks can always be completed on time.

→ The results

- Individual branches experience faster and more reliable connectivity.
- LeasePlan's WAN costs have reduced dramatically.
- Citrix SD-WAN has enabled LeasePlan to pivot very simply to the cloud.



Watch the video

“Citrix SD-WAN is the Swiss Army knife of our data center. When we need data, we go there – and when we need cloud data, we go to the cloud directly. Because we're not backhauling this through the data center, our users enjoy a much better experience and we enjoy a much more efficient IT model.”

— Ronan Murray,
Global IT Operations Manager, LeasePlan



The networking solution for today's distributed enterprise

As the requirements of digital business drive change in the branch, Citrix 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, Citrix 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

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



Learn more about Citrix SD-WAN
citrix.com/sdwan



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