Industry Brief

The Remote Radiologist is Here to Stay

Protecting the workflows of your most valued remote teams.

Overview

VMware's Teleradiology Solution comprehensively addresses challenges for remote radiologists and hospitals. It combines VMware SD-WAN, SD-WAN Orchestrator, and Edge Network Intelligence to optimize network connectivity, performance, and remediation.

Teleradiology Challenges

- Inconsistent performance and poor user experience across distributed workforce
- Poor app performance while using virtual private network connectivity
- Workers are forced to create their own redundancies
- Network issues slow performance for radiologists working with bandwidth-hungry images
- IT troubleshooting can be costly

> “VMware SD-WAN is a godsend. It was incredibly easy to set up and seamless to use. It’s probably saved me about an hour of time today alone in time wasted logging into the VPN, let alone the issues I’ve had getting booted from the network, emails getting stuck in the outbox, and issues with Webex”
>
> **Physician**
>
> MD Anderson

THE UNIVERSITY OF TEXAS MD Anderson Cancer Center Making Cancer History®

A Teleradiology platform offers numerous benefits for both healthcare providers and patients

The emerging remote radiologist faces challenges in achieving consistently high-quality experiences. At-home network accessibility and available bandwidth are critical to achieve uninterrupted performance, where competing users and connectivity issues can lead to diagnostic errors and longer turnaround times for patients.

Today, the need for sustainable solutions that address optimized image resolution, high-speed image rendering, monitoring and support, bandwidth usage, and security are more critical than ever.

Overcoming Obstacles in Radiology

Radiology plays a pivotal role in patient outcomes and other hospital success metrics, but looming over the industry is an extreme staffing shortage of radiologists. The emerging trend of remote teams requires a complex workspace setup and an optimal environment for image interpretation.

For hospitals, this can present a host of challenges. Resource-intensive setup and troubleshooting of remote radiologists' workstations, along with ensuring diagnostic turnaround times and quality metrics, can be a daunting undertaking. The lack of dependable solutions has prompted hospitals to explore various options, from VDI to other SD-WAN edge devices, but network intelligence and quality of service (QoS) capabilities remain limited.

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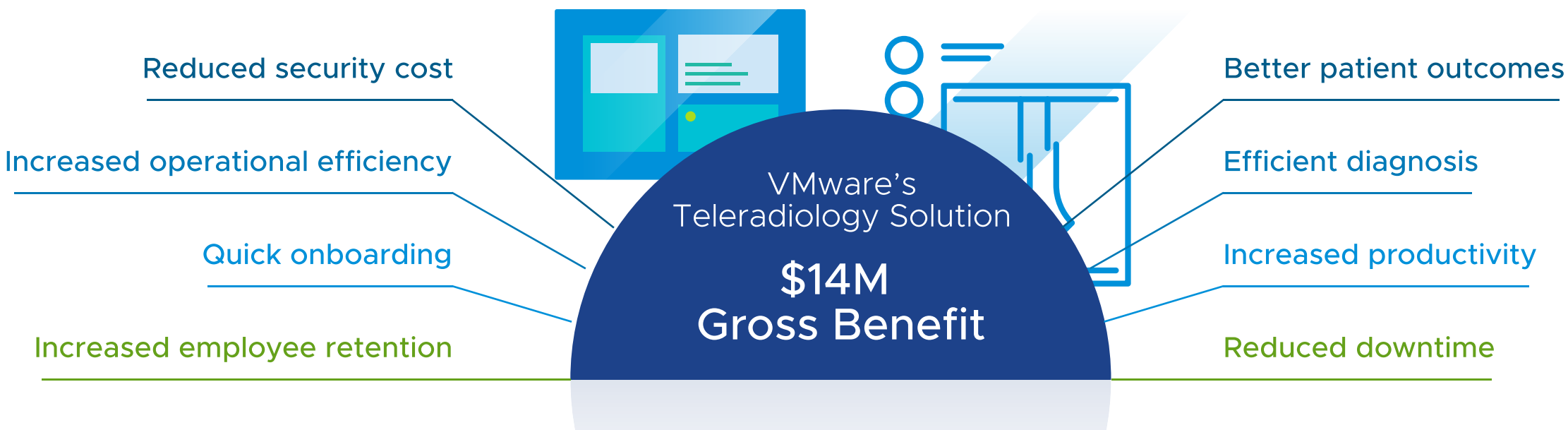

Accelerating turnaround times and boosting productivity

With VMware's Extended Teleradiology Solution, hospitals unlock a host of transformative benefits. Remote radiologists enjoy uninterrupted diagnostic work, resulting in accelerated turnaround times and heightened productivity. With reduced IT tickets, troubleshooting network issues becomes a thing of the past, saving valuable time and costs. The solution empowers radiologists with an enhanced experience that improves diagnostic performance, prioritizing their workloads during peak usage, and ultimately resulting in better patient outcomes.

Unprecedented flexibility, performance, and empowerment

VMware's comprehensive solution allows hospitals' remote teams the flexibility of WAN choices, enabling high application performance while lowering networking costs. VMware's Dynamic Multipath Optimization (DMPO) continuously monitors and steers traffic, ensuring optimal performance without session drops. Combined with the suite of VMware products, our solution includes Workspace ONE, which manages devices, workflow adoption and usability; and VMware Horizon, which provides secure VDI and published applications for non-diagnostic image viewing needs and remote desktop access. With VMware Edge Network Intelligence, remote teams enjoy end-to-end performance, security, and self-healing capabilities for both end users and IoT clients.

Embrace a future of excellence

VMware's Teleradiology Solution provides peace of mind to remote radiologists and hospitals by guaranteeing uninterrupted diagnostic work. By optimizing network connectivity, reducing errors in diagnostics, and supporting faster turnaround times, the solution significantly impacts patient outcomes, hospital metrics, and overall patient and provider experience.

VMware's Award-Winning Partner Ecosystem

Our solution for teleradiology is the foundation for a broader ecosystem of VMware partners that can support your goals. Thin clients, MSPs, AI solutions, and identity management are just a few examples of the possibilities.

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VMware's Ecosystem Further Supports Teleradiology Workflows

VMware SD-WAN

A Teleradiology platform needs an SD-WAN solution for remote radiology. The SD-WAN solution is being used for Diagnostic Radiology Image Reading, so a remote radiologist can use it to secure their workflow and optimize their app performance and network performance while reading images. VMware SD-WAN offers a first of its kind SD-WAN client that follows the principles of Zero Trust to extend the benefits of reliable, optimal, and secure connectivity for end user devices.

VMware Horizon

Secure access to desktops and apps keeps teleradiologists connected and productive anywhere they work and on any device with a consistent desktop experience. Horizon supports all non-diagnostic image viewing needs and clinical workflows, including pulling up archived images for reference or comparison. VMware Horizon delivers an exceptional remote experience with secure workstation-class performance, rich 2D and 3D graphics, and optimized voice and video support.

VMware Workspace ONE

Support teleradiologist and staff flexibility. Improve the quality of communications and interactions with patients through secure access to health systems and PHI from any device or location. Operate a modern, modular healthcare IT model that facilitates interoperability and emerging tech across disparate systems and data sources to reach data-driven decisions faster.

VMware Edge Network Intelligence

Manage distributed and secure Work from Anywhere (WFA) enterprise deployments with the client experience that eliminates IT visits. This self-healing AIOps feature ensures the teleradiologist's workflow performance and security.

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