



Success Story

How a Healthcare Center Secured 58 Regional Clinics & Accelerated Diagnostic Data Flow



58 regional sites
secured and interconnected



0% clinical downtime
via automated Hub & ISP failover



Custom SLAs
for VoIP and heavy X-ray/PACS transfers



100% team enablement
for a lean 4-person IT staff

A photograph of two healthcare professionals, a woman and a man, in a modern, brightly lit environment. The woman, on the left, is wearing blue scrubs and holding a coffee cup. The man, on the right, is wearing a white lab coat over a blue shirt, has a stethoscope around his neck, and is holding a clipboard. They are both looking towards the right side of the frame. The background is a blurred view of a modern building interior with large windows and blue architectural elements.

The challenge

Operating a prominent healthcare center with 58 regional clinics and 2 primary data center hubs across the United States requires fast, secure, and uninterrupted data exchange.

Prior to partnering with Netdata, this organization relied on legacy IPsec tunnels to connect regional clinics to headquarters. This architecture created severe latency bottlenecks, slowing down the transmission of heavy X-rays and confidential patient scans, while causing performance degradation in critical VoIP communications.

The 58 regional clinics operated as "greenfield" environments without local firewalls, relying solely on basic switches and routers that left individual sites without local perimeter protection.

With an internal IT and security team of just 4 people, deploying firewalls, consolidating network rules, and migrating 58 locations to a modern architecture represented an overwhelming operational challenge.

The process

We led a comprehensive 8-month implementation strategy, acting as an extended engineering arm to relieve the burden on the client's internal team.

Rather than simply delivering software configurations, our team focused on deep technical alignment, custom performance engineering, and hands-on client education throughout every phase.

Key elements of the engagement included:

Greenfield architecture & rule consolidation

Building security policies, routing protocols, and perimeter defense from the ground up for all 58 new branch firewalls.

Custom clinical performance profiles

Designing tailored SD-WAN metrics to monitor and optimize latency, packet loss, and jitter specifically for critical VoIP traffic and heavy diagnostic imaging.

Rigorous failover & redundancy testing

Validating automated failover mechanisms across primary and secondary Hubs, as well as local dual-ISP links at each branch, guaranteeing uninterrupted service during provider outages.

Continuous client education

Providing hands-on training during rollout, empowering the client's 4-person IT team to understand, manage, and modify routing rules independently.

The solution

We architected and deployed **PAN-OS SD-WAN** across the healthcare organization's 2 primary Hubs and 58 regional clinics, deploying Next-Generation Firewalls at every location.

The solution unified branch security, centralized traffic orchestration, and dynamically routed critical clinical data over optimal paths in real time.

Tangible results

58 regional clinics secured

Consolidated perimeter defense and SD-WAN connectivity across all medical sites, establishing a unified zero-trust foundation.

0 delay in diagnostic data transfer

Eliminated network latency bottlenecks, enabling medical staff to rapidly access and share high-resolution X-rays and confidential patient records.

100% verified high availability

Successfully tested and verified automated ISP and Hub failover, ensuring zero downtime for patient care and inter-site communications.

4-person team empowered

Delivered high-touch technical training, enabling a lean internal team to autonomously manage and scale their 58-site infrastructure.

Client Testimonial

"Netdata didn't just deploy a technology; they guided us step-by-step through every phase. Their hands-on support and commitment to educating our team gave us complete control over our network and the confidence that our clinical operations will never suffer from latency or downtime"

— IT & Security Manager

Why Netdata?

In healthcare IT, network performance directly impacts patient care.

Software licenses alone cannot guarantee operational continuity. Expert execution and human alignment do.

We bridge the gap between complex architectures and real-world clinical reliability. By serving as a dedicated security co-pilot, our team empowers healthcare organizations to achieve seamless connectivity and total security control.

Is latency or complexity slowing down your critical operations?

Partner with an engineering team that turns complex multi-site deployment into seamless operational resilience.

Schedule a 30-minute session with our lead specialists to evaluate your posture and accelerate your security roadmap.

Schedule your discovery session

Netdata®

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