



9. Zero Trust Architecture & Mission Modernization

Modernizing Federal Healthcare

Accelerating clinical workflows, ensuring FedRAMP High compliance, and achieving multi-million dollar cost avoidance through cloud-native Zero Trust.

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✓ Federal Mandate Compliant (OMB M-22-09)



EHR & PACS Clinical Data Protection



Immediate IT & Infrastructure Consolidation



Federal Healthcare: Strategic Zero Trust Mandate

CURRENT OPERATING REALITY

Legacy Network Perimeter



Lateral Ransomware Threat

Flat VPN tunnels expose entire hospital systems to lateral spread.



Clinical Diagnostic Latency

VPN backhauls delay multi-GB PACS radiology scans and EHR logins.



Heavy Hardware Maintenance

Millions spent on constant branch router and firewall stack refreshes.

HIGH VULNERABILITY • LATENCY • HIGH OPEX

TARGET FUTURE STATE

Unified Zero Trust Platform



Zero Lateral Attack Surface

Direct user-to-app brokerage; medical networks remain fully invisible.



Sub-Second Care Delivery

Direct cloud breakout gives instant access to EHR, PACS, and telehealth.



Validated Multi-Million Savings

>\$10M annual cost avoidance by replacing legacy security appliances.

DIRECT-TO-CLOUD • FEDRAMP HIGH • PROVEN ROI



AI Workflows, Data Protection, Cloud & Branch



CLINICAL PRODUCTIVITY

AI Healthcare Workflows

Ambient AI

Safely accelerates physician productivity using ambient scribes and clinical LLMs while enforcing strict data privacy.

- ✓ Ambient scribe & dictation enablement
- ✓ Real-time PHI prompt inspection & automated masking

Saves doctors 2+ hours daily on charting • Prevents shadow AI leaks



GOVERNANCE & PRIVACY

Sensitive Data Protection

HIPAA DLP

Comprehensive inline data protection preventing unauthorized exfiltration of Protected Health Information (PHI).

- ✓ Automated HIPAA, HITECH & FedRAMP DLP policies
- ✓ Full-line inspection of encrypted web, SaaS & cloud data

Zero exfiltration • Continuous clinical context & posture verification



CLOUD APP SEGMENTATION

Zero Trust Cloud

FedRAMP High

Connects healthcare staff directly to EHR and imaging applications without placing devices on a shared network.

- ✓ Unthrottled PACS scan streaming and instant Epic/Cerner load
- ✓ Zero lateral attack movement across clinical infrastructure

Replaces legacy VPNs • FedRAMP High and DoD IL5 certified



CLINIC MODERNIZATION

Zero Trust Branch

No Routers/Firewalls

Eliminates branch firewalls, routers, and complex SD-WAN stacks across regional clinics and outpatient centers.

- ✓ Direct, low-latency clinic-to-cloud breakout over local broadband
- ✓ Plug-and-play clinic site turnup in hours instead of months

Saves millions in branch hardware TCO • Seamless clinic uptime