

5G AND WI-FI 7 SOLUTIONS FROM V3GATE/RUCKUS/DELL

Improving User Experience with Advanced Networking for Federal Healthcare

The network your Federal healthcare organization really needs is here.

The rapid expansion of electronic health records (EHR), remote telemedicine, and digital health technologies is putting unprecedented strain on Federal healthcare networks. This growing demand threatens to overwhelm existing networking infrastructures, leading to potential disruptions for healthcare providers, patients, and administrators alike.

A recent MeriTalk study, conducted with RUCKUS and Dell Technologies, underscores these challenges. According to the study, 95% of Federal telecommunications decision-makers report frustrations with their current network systems. Additionally, 82% of agencies feel that their networks are hindering their ability to meet evolving mission requirements, and 85% believe that network modernization is urgently needed.

Wi-Fi 7 eliminates many of the problems Federal healthcare organizations face in meeting the expectations of their users for real-time access to the digital information they need to improve patient outcomes and reduce costs.

As Federal healthcare organizations strive to meet the increasing demands of remote telemedicine and EHR systems, it is crucial to adapt to new technological advancements.

Why 5G and Wi-Fi 7 Matter



5G Technologies: Cellular providers are advancing 5G NR solutions capable of utilizing multiple frequency channels simultaneously. This enables the rapid transfer of massive amounts of data, crucial for supporting real-time telemedicine consultations and comprehensive EHR updates.



Wi-Fi 7: This technology revolutionizes network performance with significantly reduced latency and improved data transmission efficiency. Wi-Fi 7 introduces punctured transmission, allowing for larger channel utilization and increased data throughput with lower latency, vital for managing high-volume EHR data and supporting uninterrupted patient services.

SEAMLESS MIGRATION WITHOUT DISRUPTION

Ruckus Networks, in collaboration with Dell, delivers a converged 5G and Wi-Fi 7 solution designed to integrate with your existing infrastructure with minimal upgrades. This approach avoids the need for extensive rewiring, reducing both financial costs and operational disruptions.

By mitigating construction noise and maintaining current workflows, Federal healthcare facilities can continue to operate smoothly during the transition with minimal impact on patients and employees.

REDUCING ELECTRICAL INTERFERENCE

The proliferation of new medical devices can lead to significant wireless interference. Wi-Fi 7's advanced features are designed to handle and mitigate such interference, ensuring the reliability of critical patient data transmission and reducing the risk of delays or data loss.

THE RUCKUS AND DELL TECHNOLOGIES SOLUTION

Multi-vendor solutions that provide best-of breed functions, performance, and ability to respond to changing parameters, enable the best outcomes.

By combining Ruckus's robust networking capabilities with Dell's advanced technology, V3Gate offers a comprehensive suite of solutions designed to meet the needs of Federal healthcare providers and improve overall user experience and patient care.



V3Gate simplifies acquisition and implementation

V3Gate, a Service-Disabled Veteran-Owned Small Business (SDVOSB) and Minority-Owned Business Enterprise (MBE), is proud to partner with Ruckus and Dell in providing innovative IT solutions tailored for Federal healthcare agencies. Our expertise ensures that you are well-prepared for the next wave of networking advancements.



Contact V3Gate today to explore how a proof-of-concept pilot can demonstrate the potential of these cutting-edge technologies for your Federal healthcare organization. Let us help you stay ahead of the curve and optimize your network for the demands of tomorrow.