11:11 SYSTEMS | WHITE PAPER

POWERING DIGITAL TRANSFORMATION
FOR THE NEXT GENERATION
OF HEALTHCARE

HEALTHCARE

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FACING AN ERA OF UNPRECEDENTED CHANGE

Healthcare leaders are in the midst of multiple and diverse challenges, from massive technology changes to the unprecedented upheavals of COVID-19 to intense scrutiny over data security and compliance.

As a result, they are under immense pressure to accelerate the pace of digital transformation to meet the demands of:

- Explosion in numbers of medical devices, data points, and traffic
- Massive digitization of health records (Electronic Health Records [EHR])
- Pandemic-driven mainstreaming of telemedicine, including remote connectivity and collaboration for virtual home visits, pop-up clinics, and vaccine rollouts
- HIPAA compliance regulations governing security requirements for this healthcare information

IT leaders in the field must simultaneously navigate decision-making that will deliver the greatest returns on digital transformation while improving patient experience to power the next generation of care.

> ## 61% of healthcare leaders said digital transformation is mission critical for current success. 86% ranked it as mission critical to their success five years out.

Source: 2018 study from the SAP Center for Business Insight and Oxford Economics, *Digital Transformation in Healthcare: A Positive Prognosis,*

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OPPORTUNITIES AND CHALLENGES

For many large healthcare systems, the current environment presents enormous opportunities as well as significant challenges.

OPPORTUNITIES

PATIENT-CENTERED INFRASTRUCTURE

A major goal will be refocusing infrastructure on patient needs to connect patients with the highest standard of care, wherever they may be.

AUGMENTED INTELLIGENCE AND PREDICTIVE ANALYTICS

Over the next 10 years, augmented intelligence, machine learning, and natural language processing to gather healthcare data and predictive analytics will be critical to transformation.

MORE INTELLIGENT NETWORKS

Not only will AI be important in leveraging healthcare data, it will also play a critical role in how network connectivity performs. Healthcare systems can benefit from network infrastructure that uses AI to support mission critical needs. For example, technologies like Session Smart SD-WAN will drive performance in a cloud-centric environment.

CHALLENGES

SCALING UP

For some healthcare providers, digital transformation has already begun. Foundation building is in place, but critical infrastructure may need upgrading or rethinking to support the scale and performance required for a digitally transformed healthcare environment.

DRIVING PERFORMANCE AND SECURITY

Poor Wi-Fi performance, outages, lack of visibility to predict and prevent downtime, and network obsolescence in the shift to cloud-centric networking will all need to be addressed. In addition, shifts to better performing technologies offer the promise of more efficient networking that will also meet rigorously mandated security requirements.

IMPROVING THE EXPERIENCE

Inflexible commercial terms associated with legacy network offerings become big obstacles to healthcare transformation. Leaders will seek commercial agility, flexible cost structures, and reduced vendor management burden to optimize transformation.

AT THE HEART OF DIGITAL TRANSFORMATION IS THE NETWORK, AND ITS POTENTIAL TO EITHER ACCELERATE OR INHIBIT THE PACE OF CHANGE.

Campus Buildings Wired & Wireless

Remote Clinic

On-Net Data Center

5G Coverage for Patients

Electronic Health Records

Device Connectivity

Fiber Optic MPL5 / SD-WAN

Internet Connectivity

5G Indoor Wireless

Cloud Connectivity

Everything Connected **for the Patient-Centered Environment**

· Seamless patient experience from any device or location (in-hospital, campus, remote)

· Guaranteed uptime for vital video and voice communications between health professionals and their patients

· Fast, reliable, secure transport of Electronic Health Records (EHR)

· High-performance connectivity to process data-heavy medical innovation (e.g. genome tech)

· HIPAA Compliant

Network transformation is critical to support new digital healthcare environments, from transitioning elements of the IT stack to the cloud to leverage higher efficiency, agility, and resilience, to boosting 5G coverage to patients, to leveraging advanced Software-Defined Wide Area Network (SD-WAN) capabilities with predictive AI to reduce outages and provide the ultimate seamless patient experience. Many healthcare leaders have begun to create a foundation to support transformation to provide a powerful digital experience and the networks they depend on must provide ever greater flexibility, security, and performance. Shifts to better performing technologies will also offer the next generation in security.

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About 11:11 Systems

11:11 Systems is a managed infrastructure solutions provider that holistically addresses the challenges of next-generation managed cloud, connectivity and security.

The 11:11 model empowers customers and partners to "Rethink Connected," which includes fully-integrated, fully-automated services, activities and data powered on a single platform delivering increased performance, optimization and savings.

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