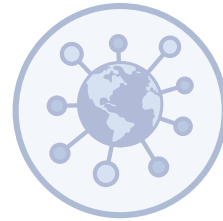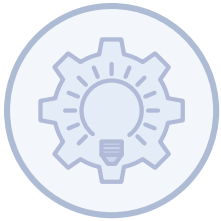# NATIONAL HEALTH CARE FACILITIES AND ENGINEERING WEEK

PREPLANNING FOR RAPID DEPLOYMENT: WIFI 7

Globally we have seen an increase in disasters, both natural and human-initiated. Whether the cause is related to the climate, a virus, or human error, each can profoundly impact society, particularly its healthcare systems. Many institutions are not equipped to provide medical care when a massive surge in patient care taxes their infrastructure.

Given this, the implementation of smart healthcare has never been more urgent or more prominent, facilitating rapid deployment of health services for both patients and healthcare providers. This includes private and secure remote healthcare and telemedicine applications, along with connectivity of Internet of Medical Things (IoMT) devices. So how do we accomplish this when more than half of total IP traffic today is wireless?

SMART HEALTHCARE: MAKE ROOM FOR WIFI 7

WiFi 7 (802.11be) will have an extremely high throughput and extremely low latency, supporting 30 Gbps (3x WiFi 6). This will provide ubiquitous communication for high-throughput applications such as 4K/8K video, VR/AR and cloud computing. These technologies can help develop a strong communication infrastructure for the smart healthcare system with extreme reliability, connection continuity, network scalability, and flexibility for rapid response.

Though WiFi 7 isn't slated to be released until 2024, deployment will require preplanning in both renovations and new facilities. With a maximum cabling distance of 250 feet, the placement of Technology Rooms may need to be reconsidered to support this deployment. This is a conversation to be had with your Technology Engineer now so that you can be sure your new or existing facility is infrastructure-ready for what's to come.

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