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## Hardworking Wi-Fi for Healthcare

Using mobility to optimize  
care pathways

### Healthcare Solution Brief

Alcatel-Lucent OmniAccess Stellar WLAN  
July 2017

Alcatel·Lucent   
Enterprise

# Modern challenges in healthcare

Healthcare organizations are looking at wireless technology to help transform their services to meet today's challenges.

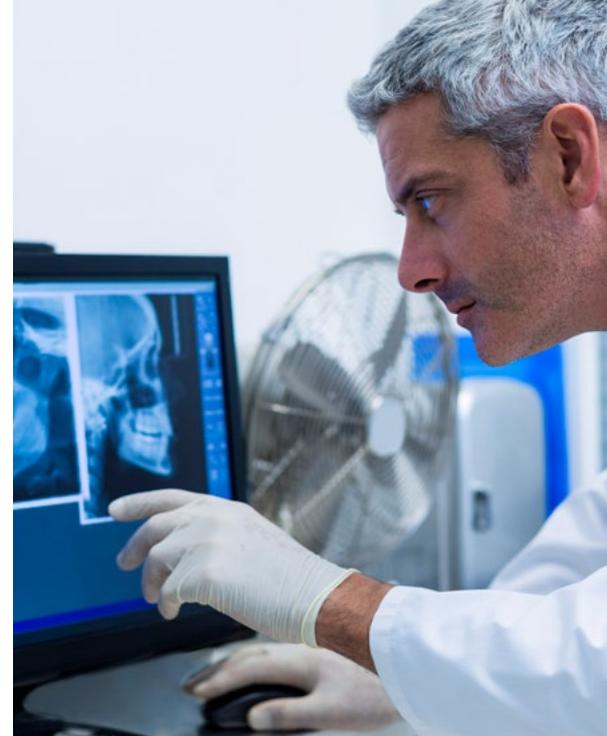
## Improving patient care pathways

The use of mobile devices in hospitals is increasingly common, as they make it possible for clinicians to work more efficiently and effectively, improving the patient care pathway.

For example, you can achieve higher standards of care when your clinicians are able to use mobile devices to securely access electronic health/medical (EHR/EMR) records and test results at the bedside, instead of having to leave a patient and log into a desktop some distance away.

Also, monitoring devices embedded in wristbands, make it possible for more patients to recover while at home, as doctors and care givers can track their progress remotely using real-time data. This reduces hospital costs and frees up beds for more urgent cases.

Many healthcare organizations are looking at mobility as a means to improve treatment paths and patient outcomes. To achieve these goals, you need a Wi-Fi solution with the strength and intelligence to support the demands of digitization and the Internet of Things.



<sup>1</sup> <http://www.mcsa.co.uk/wp-content/uploads/2015/05/Aruba-Overview-1.pdf>

<sup>2</sup> <http://mspmentor.net/msp-mentor/msp-opportunity-healthcare-and-mobile-device-management>

<sup>3</sup> <https://iotbusinessnews.com/2017/02/08/82058-berg-insight-says-7-1-million-patients-worldwide-remotely-monitored/>

<sup>4</sup> Data from AON report: Cyber Risk for Entertainment-Hospitality Sector (March 2016)

<sup>5</sup> <http://www.mckinsey.com/industries/healthcare-systems-and-services/our-insights/healthcares-digital-future>

## Meeting patient and visitor expectations

The majority of patients and visitors expect to be able to get online while they're in a hospital, clinic, or other healthcare environment.

They prefer access via their own smartphone or tablet device. They want to watch online TV, videos, chat and instant message with friends, update their social media, and perhaps even catch up with their work.

Whether you factor this service into existing costs or use it to generate extra revenue, strict requirements need to be met.

You need to provide ultra-high speeds, new levels of bandwidth and improved coverage.

You also need to take the right approach towards security, to provide patient and visitor Wi-Fi that won't impact the speed and availability of your essential services, nor compromise confidential data.

## Safeguarding organizations

Cyberattacks are frequently in the news and those targeting healthcare have recently doubled. Data breaches can lead to legal actions and large regulatory fines, as well as severely damage an organization's reputation.

So it makes sense to safeguard your digital workflows and patient data, across your wireless network. Doing this in the best possible way requires building security into your Wi-Fi network's architecture.

## Keeping it simple and cost effective

Meeting these needs calls for a solution that doesn't complicate your network or its use. The solution needs to simplify your operations while providing tangible workflow improvements and efficiencies that can be demonstrated to your organization's board.

## An expensive lesson in security updates

In May 2017, hospitals in England and Scotland were forced to cancel procedures after dozens of systems were brought down in an attack that locked machines and demanded money to release the data. The ransomware attack could have been avoided if computers had been updated with the latest security patches. The same thing can happen to your network if it isn't properly protected.



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### **The Alcatel-Lucent OmniAccess® Stellar WLAN solution**

The answer to these challenges comes in the form of the OmniAccess Stellar WLAN solution. It uniquely combines a distributed controller architecture with IoT containment for security and unified access for simplicity. Through our global reach with a local focus we can deliver enterprise class performance Wi-Fi that works harder for you.

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### The biggest difference is in its architecture

The OmniAccess Stellar WLAN solution, when combined with ALE's single network infrastructure with IoT containment, not only simplifies deployment and configuration but also provides a secure network architecture.

So, for example, in a hospital, you can run a clinician network - exclusively for devices used by doctors and nurses, a security network - for security cameras, access control and intrusion detection, a facilities network and an administration network. They are all on the same network infrastructure, while being securely separated from each other.

**This allows you to adopt solutions based on mobility and IoT faster, with greater operating efficiency and security.**



### **A tailored experience for each connection**

User and device profiling allows for better authentication, authorization and classification.

So for example, a clinician can use their device to access digital images and other patient data on their secure virtual network with guaranteed bandwidth. A visitor can log into the guest network and surf the web or update their social media. And an IoT medical device, such as a Wi-Fi wristband blood pressure monitor, can feed back important data about a patient, in real-time.

### **Location-based services for better patient and visitor experiences**

The OmniAccess Stellar WLAN solution, with location-based services (LBS), provides a hospital or clinic with the ability to offer services, such as way finding (map based directions), people and asset location, geo-fencing, etc., to improve the patient and visitor experience.

For example, you can provide real-time directions to clinics, wards, offices, or even on-site cafes, shops, or parking lots. And you can welcome back previous visitors, such as outpatients, with information tailored to their care.

### **The OmniAccess Stellar WLAN solution is built around a single network architecture that provides:**

- Unified Access
- IoT Containment
- Intelligent Fabric
- Smart Analytics





## OmniAccess Stellar WLAN at-a-glance

Enterprise WLAN with operational simplicity and low TCO.

**Design:** High speed Wi-Fi with optimized radio coverage, simple to deploy and scale.

**User:** Easy to connect, excellent and secure user experience for clinical staff, administrators, patients and visitors.

**IoT:** Unique IoT containment technology, securely and automatically connect any device.

**Location-based services:** Improve the patient and visitor experience while promoting your brand.

**Management:** Native unified access for LAN and WLAN with cloud-enabled management that guarantees the best quality of service.

**Performance:** Distributed intelligent architecture for better performance and high availability.

**Evolution:** Future-proof solution built on latest technologies, innovations and services to protect investment.

To find out how to connect anywhere and everywhere with the benefits of mobility.

**Visit:** <https://www.al-enterprise.com/en/stellar-mobility-wifi>

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### Connected Healthcare

We help you connect your patients, staff and healthcare ecosystem. Delivering technology that works, across and beyond your facilities. With global reach and local focus, we deliver specialized networking and communications for healthcare providers, to optimize the care pathway and enhance patient outcomes.

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