

## Cisco Wireless LAN Assessment Service for Healthcare

Create a Strategy for Collaborative Healthcare That Can Integrate Mobile Devices, Applications, Security, and Disparate Networks into a Unified Platform



Understand next steps to help you enhance patient care:

- Align your healthcare goals with your technical requirements
- Identify new opportunities to deploy cost-saving and productivity-enhancing mobility applications
- Gauge your environment's ability to allow secure wireless LAN access in your desired coverage area

### Challenge

Those who manage and deliver healthcare are striving to manage many complex, interconnected issues. The typical hospital has more than 300 applications in use on any given day, and many hospitals maintain separate networks for various functions and departments, adding cost and complexity. Compounding these issues is the fact that a person with a serious or chronic disease will typically see six to eight different clinicians in three to five different organizations.

Healthcare environments are constantly pressured to provide the best care and reduce costs. People, information, and equipment critical to the delivery of patient care require careful coordination and simplified access when needed at any point along the healthcare continuum.

Mobile technology in healthcare saves times, eliminates unnecessary expenditures, enables better-informed decision making, and increases responsiveness to patients and staff.

To capitalize on technology investments now and in the future, healthcare organizations need a better understanding of their wireless

architecture and configuration, especially in regard to industry-specific issues such as how to support mission-critical applications and address extreme challenges to radio frequency (RF) transmission posed by medical equipment, radiation, and highly reinforced construction.

### Solution

Cisco and our Wireless LAN Specialized Partners offer a broad portfolio of end-to-end services that help you develop strategies for deploying high-performance secure networks that can support the demand for mobility applications.

These services are based on proven methodologies for assessing wireless network designs, identifying technology readiness, and creating deployment strategies. Deployment of these new and sometimes complex technologies requires the knowledge that has been gained through years of experience designing and deploying some of the world's most complex wireless networks. Cisco Wireless LAN Specialized Partners bring application expertise to help deliver a secure enterprise mobility solution with a low total cost of ownership.

### Cisco Wireless LAN Assessment Service for Healthcare

The Cisco® Wireless LAN Assessment Service for Healthcare helps you align your healthcare goals with your technical requirements, better understand the current state of your network relative to your vision for connected healthcare, and create a plan to get there. The service conducts a detailed review of your wireless network infrastructure using expert data gathering and analysis in order to provide healthcare industry-specific recommendations to enhance collaboration, integrate contextual information, and provide secure information exchange.

This service gives you a clear view of your current business and technical requirements and confirms that your architecture, physical sites, and operations adequately support the challenging RF environment found in facilities such as hospitals as well as the mission-critical requirements of healthcare professionals. The Cisco Wireless LAN Assessment Service for Healthcare helps you better understand the performance of your wireless LAN infrastructure, identify gaps, and address critical concerns such as scalability and security.

The assessments can help you identify requirements for the following Cisco mobility products, which are at the core of a healthcare clinical workflow solution:

- Cisco Wireless LAN Context Aware
- Cisco Unified Communications over Wireless LAN

The Cisco Wireless LAN Assessment Service for Healthcare includes six activities to help you understand your current environment and what is required to adopt a healthcare mobile clinical workflow solution:

- Wireless LAN infrastructure assessment
- Wireless LAN RF infrastructure audit
- Cisco Wireless LAN Controller configuration review
- Cisco Wireless Control System configuration review
- Mobility services engine configuration review
- Knowledge transfer and assessment review session

#### **Wireless LAN Infrastructure Assessment**

This activity assesses gaps between your current wireless LAN infrastructure design and business requirements to support the higher wireless LAN performance with 802.11n. This is done by reviewing your existing and planned Cisco Unified Wireless Network high-level design (HLD) and low-level design (LLD) architecture, wired network, security infrastructure, and planned client management processes. The assessment helps you identify common challenges such as wireless security gaps and other performance issues. While a Cisco Unified Wireless Network HLD and LLD are expected to preexist to this service, a wireless LAN expert works with your networking staff to assess your existing architecture in detail to gauge its ability to support mobility services within your Cisco Unified Wireless Network solution.

#### **Wireless LAN RF Infrastructure Audit**

This audit gauges the ability of your environment to allow secure wireless LAN access in the desired coverage area. It helps you assess your current state and future needs so you can make informed decisions about how to address the design complexities of your wireless network architecture and additional performance requirements of mobility services. The RF audit reviews your current site survey and enables the wireless LAN expert to identify any issues with location of access points, frequencies, interference, antenna selections, and power and cabling specifications. This information is compared with Cisco leading practices.

#### **Cisco Wireless LAN Controller Configuration Review**

Realizing the full benefits your Cisco Unified Wireless Network solution requires optimal configuration of radio management settings, interference detection, transmit power, and security settings. This review helps you identify the software release requirements and configuration settings that will help you achieve maximum performance of your wireless network and support the deployment of mobility services.

### **Cisco Wireless Control System Configuration Review**

A wireless LAN expert reviews the existing Cisco Wireless Control System (WCS) floor map configuration for access point placement and antenna orientation that support your mobility services and recommend the appropriate software releases to meet your technical requirements and deployment considerations. Because WCS provides the centralized platform for control, monitoring, troubleshooting, and security of your wireless network, it is important to optimize the configuration of the WCS to support deployment of mobility services.

### **Mobility Services Engine Design and Configuration Review**

This activity begins with a review of the installation and design of the Cisco Mobility Services Engine within the wireless LAN infrastructure and compared to Cisco leading practices for deployment. Next, the server history, application usage, and performance are examined in order to determine if there is a need for configuration changes. These activities create the foundation for high performance and scalability that are essential for the deployment of mobility services.

### **Knowledge Transfer Session and Assessment Review**

The wireless LAN expert responsible for this service conducts an interactive review of the assessment findings, addresses questions, and provides guidance based on proven methodologies for creating mobility services using leading practices. This exchange helps you to create a mobility strategy that aligns your business and technical requirements.

### **Benefits**

Cisco mobility solutions for healthcare provide healthcare workers with secure reliable access to clinical, collaborative, and context-aware applications that optimize the efficiency and quality of patient care. Evolving the wired and wireless network into a true mobility platform makes it easier to manage the increasing quantity and diversity of mobile devices, address security concerns, and creates an open platform for the development of mobile clinical workflow applications. Cisco and our specialized partners provide the expertise needed to deploy these new technologies using Cisco leading practices.

In addition, this service helps you to:

- Gain access to Cisco networking experts well versed in your situation and your industry
- Understand the current state of your network as it relates to fulfilling your vision for enhanced healthcare delivery
- Identify gaps that need to be addressed in order to build a strategy for healthcare mobility solution adoption
- Improve your staff's understanding of mobility technology requirements through structured knowledge transfer

### **Why Cisco Services**

Cisco Services make networks, applications, and the people who use them work better together. Today, the network is a strategic platform in a world that demands better integration between people, information, and ideas. The network works better when services, together with products, create solutions aligned with business needs and opportunities.

The unique Cisco Lifecycle approach to services defines the requisite activities at each phase of the network lifecycle to help ensure service excellence. With a collaborative delivery methodology that joins the forces of Cisco, our skilled network of partners, and our customers, we achieve the best results.

### **For More Information**

For more information about Cisco Wireless LAN Services, visit [www.cisco.com/go/wirelesslanservices](http://www.cisco.com/go/wirelesslanservices) or contact your local account representative. For more information about Cisco wireless LAN products, visit [www.cisco.com/go/wireless](http://www.cisco.com/go/wireless).

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