

Connected Health Services

Transforming the Delivery of Care with the Cisco Digital Network Architecture for Healthcare



Benefits

- Highly secure access to health information when and where it's needed
- Optimized wireless infrastructure to support the latest mobile devices and reduce roaming issues and application latencies
- Secured medical devices from the edge all the way back to the data center infrastructure to protect patient data and your corporate network
- Improved regulatory compliance

Changing the World of Digitized Healthcare

Few industries have seen such dramatic changes as healthcare – electronic medical records, collaborative tools, home-based patient monitoring, and the adoption of 3D prosthetic printing to name just a few. Today's healthcare delivery models are more vulnerable to competition, increasing the pressure to reduce costs and meet stringent patient and clinician expectations. And healthcare organizations must continue to secure the most valuable data in the system – patient data or protected health information – from a black market that is willing to pay top dollar for this information.

To address these challenges, healthcare organizations are increasingly embracing digital technologies that connect multitudes of devices and enable analysis of every piece of data. By digitizing and knocking down the informational and organizational silos, hospitals are able to benefit from a more interoperable model and enable personalized care options and new care delivery models. It's crucial that the underlying platform for the delivery of digitized healthcare stay one step ahead.

Cisco Digital Network Architecture for Healthcare

The key to successful digital transformation is to use a modular architecture designed specifically for healthcare, one that builds on the collective set of best practices from both an infrastructure and a healthcare industry perspective. Built on top of Cisco® networking best practices using horizontally focused Cisco Validated Designs for campus, data center, WAN, and Internet edge, the Cisco Digital Network Architecture for Healthcare considers healthcare information characteristics as well as infrastructure design characteristics, including reliability, security, contextual awareness, scalability, mobility, and interoperability.

Using a bi-directional approach consisting of the traditional bottom-up technology-based approach as well as a top-down healthcare outcome approach, it maps healthcare outcome needs to architectural-based solutions, delivering return of investment while providing measurable results to clinical teams, patients, and families.

This well-developed model defines various levels of capabilities to support a phased implementation and addresses security concerns with the Cisco SAFE Security Architecture to mitigate threats in an end-to-end manner. It also enables an open, software-driven approach that integrates critical innovations in networking software, such as virtualization, automation, analytics, and cloud, into that architecture, providing a roadmap to digitization and helping you to innovate faster, reduce costs, and lower risk with services that are easy to consume.

A Portfolio of Services Created to Deliver Better Business and Care Outcomes

Our Connected Health Services team partners with you to help develop and execute winning digital strategies to enhance your care delivery goals. Our healthcare services team includes professionals with deep expertise in many areas of the healthcare environment: process managers, business analysts, solution architects, and network engineers. Because so many of our team members have been in your shoes, we understand your challenges. Using that in-depth knowledge of healthcare environments as well as best practices developed supporting hospitals around the world, we'll guide you through the transition to gain all the benefits of digital disruption.

We bring together your business, clinical, and technical teams to understand and align your business objectives, identify your current and future state, and evaluate the technology behind them. We will break them down into use cases, create blueprints, and document the ROI. Once the solution is deployed, we will do regular reviews and provide process change support so you will continue to meet the identified requirements as your network changes and grows.

Advisory: We can help you with your digital transformation roadmap by assessing your current healthcare solutions as well as your network and security infrastructure. We will help create a future state architecture by leveraging DNA for Healthcare and provide actionable recommendations

on how to transform your digital healthcare infrastructure capabilities to meet your desired future state.

Implementation: We will create detailed designs and implementation plans needed to successfully implement and Digital Network Architecture for Healthcare and associated the digital solutions. We'll follow that with testing and validation to smoothly get your solution up and running.

Optimization: Healthcare networks, and the digital solutions which run on them, need continual attention to ensure optimal performance. Technology continue to evolve as do care delivery needs, clinician expectation and patient experience needs. Our optimization offer provides you with continued support, leveraging advancements in technology and evolving DNA for Healthcare best practices, to help ensure you achieve your healthcare delivery outcomes. We will perform regular reviews of your clinical technology workflows, network architecture, healthcare-specific compliance requirements and provide quarterly business reviews. We take it a step further by providing business change support and ongoing engagement of a healthcare solution architect. As your network and the number of devices on it continues to grow, we will help guide you to ensure the network is still meeting the identified requirements.

Next Steps

The future is here. Get ready to take your share of the digital value at stake. From next-generation networks to industry-leading mobility, security, and collaboration, Cisco provides the integrated architectures that securely connect your people, processes, data, and things to provide a solid foundation for your digital transformation. Let us help you develop the customized strategies and solutions needed to take full advantage of the digital opportunity ahead of you.

Contact your Cisco sales representative and ask how the Cisco Connected Health Services team, together with Cisco Digital Network Architecture for Healthcare, can help your organization with the digital healthcare journey. For more information, visit <http://www.cisco.com/c/en/us/solutions/industries/healthcare/connected-health.html>.