Cisco Medical-Grade Network
Providing Foundational Architectures for Healthcare

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The Cisco® Medical-Grade Network (MGN) provides the network foundation that enables reliable, seamless, and secure health data exchange and communications for the healthcare community. These characteristics are detailed within the MGN architecture, which is based on the best practices of a robust healthcare environment.

Cisco’s Medical-Grade Network provides an end-to-end framework for the healthcare industry. It allows integration and interoperability at each functional area, optimizing interactions among healthcare participants, processes, applications, and hardware components. This includes areas such as acute care campuses, ambulatory clinics, remote clinicians, and data centers.

Within the Cisco MGN, diverse business and clinical communications are facilitated and integrated throughout the continuum of care. The Cisco MGN supports:
- Communications needs for clinicians, patients, administrators, and partners
- Healthcare regulatory requirements for patient privacy and data security
- Healthcare’s unique information, technology, bandwidth, and integration challenges
- Anytime, anywhere information capture and access for wired and wireless applications
- Converged data, voice, and video networks enhancing patient care and collaboration
- Identity- and policy-based security from inside the network to beyond organizational walls
- Transfer and storage of large amounts of data created by healthcare applications

Resilient
Single points of failure are eliminated and rapid convergence architectures and technologies are used throughout the network. Advanced technologies are used to maximize uptime for mission critical applications such as electronic health records (EHRs), picture archiving and communications systems (PACS), and biometric devices.

Protected
Cisco Secure Borderless Networks provide an industry-proven architecture for securing protected health information (PHI) and other patient confidential information. This provides the foundation for meeting global healthcare security specifications such as IEC-60001, HIPAA, FICL, HIPAEDA, H-Link/ICC, Health Information Trust Alliance (HITrust), and the RedFlags Rule.

Interactive
Through the use of Cisco technologies, clinicians, physicians, payers, life sciences professionals, and patients are able to interact more effectively. Utilizing wired and wireless technologies, the Internet, and remote access solutions, authorized individuals are able to access critical clinical information. Patients are able to interact with their care providers, resulting in an enhanced patient care model.

Responsive
The network needs the flexibility to quickly respond to changing demands. These demands range from regulatory requirements and security to new clinical systems and mobile devices. The Cisco MGN is scalable in its ability to respond to the needs for increased bandwidth, quality of service, access policy control and regulatory requirements such as HIPAA and IEC-60001.

Cisco Smart+Connected Health Solution Portfolios
- Cisco Care-at-a-Distance and Clinical Workflow Solutions
  These solutions enable local and remote team collaboration, patient examinations, and consultations. This set of solutions includes products that streamline workflows and improve communications across teams.
- Cisco Compliance and Medical Device Management Solutions
  These solutions provide security, interoperability, and device connectivity. These solutions also enhance the integration and management of medical device data in an open yet secure environment.
- Cisco Continuing Health Education and Business Collaboration Solutions
  These solutions facilitate professional education, training, certification, and business collaboration across teams and organizations.

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