



# Cisco Security Services: Solutions for Healthcare

Sirens howl. An ambulance screeches into the hospital entrance. The staff moves with chaotic grace. The stretcher winds through the halls of the ER, a nurse totes a tablet pre-populated with the patient's allergies, past medical history, and current medications. In a hospital, efficient access to information is the difference between success and failure.

This need for speed produces additional risk, creating a complex security environment. Health records must be quickly accessible yet remain tightly controlled. The balance of enabling care and treatment while protecting patient information can be extremely challenging. If security measures prevent doctors and nurses from accessing health information, quality of care declines. If healthcare providers fail to maintain a strong security posture, extremely sensitive patient information is put at risk.

A number of factors only proliferate these challenges:

- 80% of healthcare IT leaders say their systems have been compromised<sup>1</sup>
- Medical information is worth 250 times more than a credit card number on the black market<sup>2</sup>
- Only 57 percent of healthcare organizations have a documented information security strategy, while nearly 27 percent say they're still working on one<sup>3</sup>

It's the perfect storm. Extremely valuable records are being digitized by a high number of organizations without a strong security strategy in place. Compounding this, healthcare is additionally challenged to hire and retain much-needed security staff. With a 12 times demand over supply for qualified and experienced security personnel healthcare simply cannot compete with better funded competitors for scarce security resources.<sup>4</sup>

1. KPMG 2. FBI 3. ISMG Information Security 4. Cisco 2015 Annual Security Report



## Our Solutions

Cisco has developed a myriad of services to address Healthcare’s security challenges and provide expertise around threat intelligence, security operations, incident response, and more.

Key security architectural services are available to enable healthcare to protect access to PHI and PII data and to provide improved security for medical devices. These architectural services include network security segmentation design and planning and Security Operations Center (SOC) design and optimization.

Additionally, Cisco has developed an Enterprise Strategic Security Roadmap (ESSR) for Healthcare for consumption by the Board to plan and guide the development of the security program while actively reducing enterprise risk. Cisco can provide advisory, assessment, and planning services to provide improved visibility for senior executives to understand risk and compliance.

<b>Active Threat Analytics Premier</b>	An analytics powered managed service for customers not prepared to spend the money to build their own SOC, or who wish to supplement their existing SOC and Security Incidence & Event Management (SIEM) systems. ATA delivers improved identification of potential indicators of compromise and threat detection and prevention.	<ul style="list-style-type: none"> <li>• Provides best-in-class threat analysis and reduced time to detection.</li> <li>• Performs advanced big data analytics techniques.</li> <li>• Produces complete visibility into specific attacks.</li> <li>• Identifies “unknown unknowns” using big data models.</li> <li>• Takes high quality “known truth” (depth of collected telemetry) to inform targeted recommendations for remediations.</li> <li>• Provides tailored 24 hours a day, 7 days a week threat hunting that augments customers security staff.</li> </ul>
<b>Security Operations Center (SOC) Enablement</b>	For customers who have invested in or plan to invest in their own Security Operations Center (SOC), Cisco provides expert advisory services to scope, design, build, and optimize their SOC.	<ul style="list-style-type: none"> <li>• <b>SOC benchmarking:</b> Compares current SOC services against SOC strategy or benchmarks current SOC’s technology stack, delivery model, and processes against industry peers.</li> <li>• <b>SOC service strategy and design:</b> Customizes business oriented services to organization’s specific environment, building on existing security investments and integrating with current processes and procedures.</li> <li>• <b>Migration to next-generation SOC:</b> Improves on current SOC technologies and services to provide greater visibility into current threat landscape and discover breaches faster.</li> </ul>
<b>Incident Response</b>	Designed to advise organizations on how to reduce time to detection, containment and remediation. Our experts identify the source of infection, where it entered the environment, and what data was compromised.	<ul style="list-style-type: none"> <li>• <b>Breach assessment and investigation:</b> determines the method of attack and pulls together a breakdown of the breach; includes on-site forensics support, war-room leadership and countermeasure development.</li> <li>• <b>Pre-breach readiness:</b> determines the levels of readiness across your security operations, incident planning and logging practices through preemptive assessments and tabletop exercises; gap-tests existing organizational capabilities through future threat preparedness.</li> </ul>



<p><b>Office for Civil Rights (OCR) Assessment</b></p>	<p>Ever wondered how your organization would fare if audited by OCR following a breach or random assessment of HIPAA Covered Entities? Here's your chance.</p>	<ul style="list-style-type: none"> <li>• Performs standards-based information security assessment focused on HIPAA Final Security Rule and HITECH compliance, and ISO 27001 best practices.</li> <li>• Delivers compliance assessment against HIPAA Security Rule, HITECH and the HHS OCR's 79 point audit matrix to test for evidence of the effectiveness of security controls.</li> <li>• Conducts a technical vulnerability assessment of systems, both internally and externally.</li> <li>• Conducts a risk assessment of electronic information and information processing resources to provide safeguard and protection recommendations.</li> <li>• Develops a roadmap and resource plan for achieving compliance.</li> </ul>
<p><b>Enterprise Strategic Security Roadmap (ESSR)</b></p>	<p>Assessment of current security compliance strengths and weaknesses, prioritization of remediation activities and development of an enterprise security plan to guide management of the security program.</p>	<ul style="list-style-type: none"> <li>• Provides collaboration, brainstorming and strategy discussions.</li> <li>• Includes crowd-sourced, quality controlled knowledge engine.</li> <li>• Increases ramp up of inexperienced security professionals.</li> <li>• Delivers assessment guidance, workflow and reporting.</li> <li>• Produces trend analysis to support ROI, budget planning and product selection.</li> <li>• Develops best practice templates to address security gaps and optimize key product platforms.</li> <li>• Designs product templates to facilitate complex</li> </ul>

**Additional Assessments:**

- ISO 27001 Certification Readiness Assessment
- Security Compliance Assessments for HIPAA/HITECH, FDA, FDC Red Flags
- Privacy Compliance Assessments for EPD, Caldecott, Australian & Singapore Privacy Acts
- PCI DSS Compliance Assessment, Attestation and Scanning (QSA / ASV)
- Security Vulnerability Assessment and Penetration Testing: external, application, internal, wireless, configuration, etc.
- Industrial Controls Assessment for pharmaceutical drug manufacture, ISO, FDA, etc.

**Why Cisco Security Solutions?**

Cisco Security Solutions provide the operational focus and expertise to effectively secure your business with offerings from a portfolio that includes Advisory, Integration, and Managed Services:

**Advisory Services** provide strategic and technical advisors to help you identify security opportunities to protect performance, create competitive advantage, and capture long-term sustainable business value.

**Integration Services** help you integrate a breadth of Cisco security technology, migrate from other solutions including legacy products, and optimize existing security technologies to maximize security effectiveness.

**Managed Services** provide best-in-class product support, hosted security, and managed security. Our Managed Services help you strengthen your security program with industry-leading expertise, technology, intelligence, and analysis.

**Next Steps**

Visit [www.cisco.com/go/securityservices](http://www.cisco.com/go/securityservices) to connect with our experts and protect your healthcare environment today.