



INDUSTRY SOLUTION BRIEF

Connect and secure everything in your network via a flexible, robust, and performant SD-WAN



Open Systems services are ISO 27001 certified.

What are some of the current challenges in the healthcare industry?



Support mobile devices and telehealth

Reach all endpoints with a flexible, robust, and performant network



Connect the Internet of Medical Things (IoMT)

Provide connectivity to legacy devices and systems while enforcing security controls



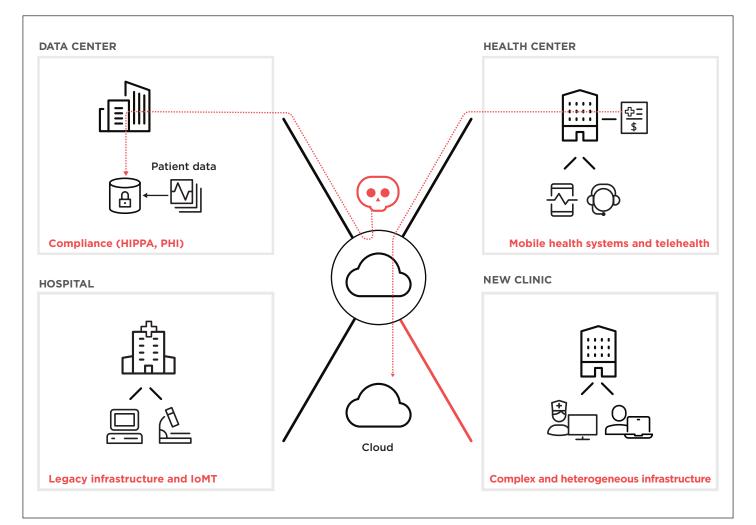
Ensure compliance with PHI, HIPAA, and more

Maintain regulatory standards for data protection and a complete audit trail of events



Unify complex infrastructure and remote sites

Enable networking and security for hospitals, clinics, and remote branches



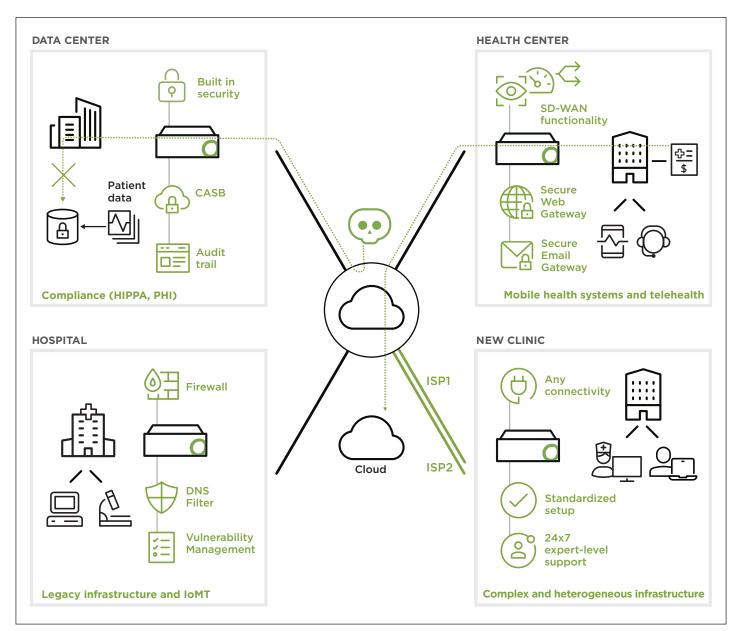
Most common pain points of healthcare institutions in their IT network and security environments

As a healthcare enterprise, your network is critical to quality of care

Healthcare organizations rely on their extensive networks to deliver patient and administrative data efficiently across clouds and to every endpoint, many of which are now tablets and other mobile devices. Equally important, the enterprise network must both protect patient data according to governing regulations and provide security for a complex IT infrastructure that typically includes a significant number of legacy machines. Finally, that same network must also enable business innovation and acceleration. To do all these things reliably requires a best-of-breed networking and security solution – it requires the Open Systems Secure SD-WAN.

Your SD-WAN is a key resource

A unified, secure network like the Open Systems Secure SD-WAN is critical to enabling healthcare organizations to ensure compliance and complete audit trails, integrate and secure both complex, often legacy infrastructures and remote locations, and drive mobility and telehealth services – all while providing end users across the organization with the fast connectivity and strong security they need to drive innovation and business value.



How Open Systems can support the healthcare industry in patient data protection, IoMT and simplification of complex infrastructure.



Challenge

Let's address healthcare industry challenges one by one

Meet the agility demands of mobile devices and telehealth

Modern healthcare IT environments must contend with ever-rising demand for mobile device connectivity and telehealth services. Mobile access also presents new security and bandwidth challenges as patient data, billing information, bookings, and video conferencing all traverse the same environment. Powering healthcare IT services requires a flexible, resilient, and high-performance network that stretches to every endpoint and offers intelligent, granular controls.

Open Systems enables customers to implement use case-based firewalls to control access, and Bandwidth Control and Path Selection features to manage connectivity and performance, among many disparate services. For billing systems, Open Systems provides secure mechanisms for connecting to cloud partners, while our Secure Email Gateway protects users from spoofing, phishing, or malware attacks and potential subsequent damage to the brand.

Open Systems solution



Open Systems offers powerful threat protection via the email filtering functions of our **Secure Email Gateway.** Protect your end users' communications from spoofing, phishing, or malware attacks – and by extension protect the reputation of your brand – by leveraging visibility, enforcement, and deep analysis of your email traffic.

Power your healthcare organization with secure SD-WAN, Industry Solution Brief 1.0 by Open Systems ©2019, proprietary





Legacy infrastructure and IoMT

Challenge

Connect and secure all your legacy equipment

Healthcare infrastructure can be difficult to secure. Legacy devices, such as X-ray, MRI machines or microscopes, may not support web proxies – rendering them vulnerable – and their control software may also be at risk due to age. These assets need to be handled specially in the midst of an already complex networking and security picture, and, if a vulnerable device is compromised, the network must have controls to prevent the internal spread of infections.

Open Systems solutions address these challenges with a variety of best-of-breed technologies – like a global, zone-based firewall, a DNS Filter, a Secure Web Gateway, and Network Security Monitoring – that means you can stay focused on your strategic objectives.

Open Systems solution

or added network security, you'd like to isolate business-critical but legacy machines -	の日
ke X-ray and MRI machines or microscopes - from other user activity and patient data.	S H

Open Systems SD-WAN features a global, **zone-based WAN firewall** that enables internal network segmentation – effectively adding firewalls within your firewall – to protect your critical assets.

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You'd also like to add additional protection for non-proxy-aware devices.



Open Systems covers all your IT: our **DNS Filter** performs threat protection for non-proxy-aware devices, while our **Secure Web Gateway** does the same for proxy-aware devices.

For your machines running older software, you must adopt solutions to protect known vulnerabilities.

The Open Systems **Vulnerability Management** solution allows you to add further protection and monitor the status of that protection in real time. See your security posture from the hacker's point of view – get visibility into threats across your on-premises, cloud, and mobile IT assets, and enjoy proactive alerts and remediation.

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As much as possible, you'd like to ensure that no legacy (and therefore vulnerable) medical device is compromised or, in the case of an infection, that malware does not spread internally.

Open Systems takes a holistic approach to threat detection and response. Because legacy devices may not accept an **Endpoint Detection and Response** installation, we provide advanced **Network Security Monitoring** to detect compromised systems quickly and enable efficient analysis and response – including our Global Threat Isolation feature, which can isolate a machine on the perimeter in the event of a compromise.



Challenge

Ensure compliance with multiple regulatory obligations

Today's healthcare enterprise is responsible for ensuring the protection of patient data under HIPAA, GDPR, and PHI. Given how much sensitive data organizations typically handle, data security is a large and demanding task. You need strong security protections at every level, and comprehensive solutions for threat detection and response. Moreover, you need to be able to demonstrate the security features and compliance of your network to multiple regulatory bodies.

The consistent architecture and advanced automation of the Open Systems Secure SD-WAN, combined with the 24x7 expert-level support that Open Systems provides, enables enterprises to easily meet IT regulatory requirements. Our SD-WAN protects you against external threats with built-in, best-of-breed security features, and delivers powerful threat detection and response via additional options. From a regulatory perspective, the deep visibility and end-to-end audit trail built into our SD-WAN ensure you meet compliance requirements. Here are a few examples of how Open Systems drives compliance.

Open Systems solution

You need to adhere to HIPAA (Health Insurance Portability and Accountability Act) and General Data Protection Regulation (GDPR) standards.

> The Open Systems Secure SD-WAN features built-in security at every level. Our Next-Gen Firewall with internal zoning enables a multi-tiered organizational security policy. Similarly, our Secure Web Gateway and DNS Filter provide protection from malicious content on the public internet, while our Network Security Monitoring, Endpoint Detection and Response, and Vulnerability Management handle network threat detection and response.

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If - despite all protection mechanisms - an atta	ck occurs, you need a fast, comprehen-
sive, and professional response.	

The Open Systems OS-CERT team is a highly-skilled group that provides fast Incident Response. They are closely connected to a global network of security professionals who work together to mitigate threats.

Regulatory requirements require you to define and enforce global application usage and data policies for Protected Health Information (PHI).

> With Open Systems' Cloud Access Security Broker (CASB), organizations can monitor cloud application usage and then define access and usage parameters for different users and access methods in order to enforce security policies on cloud applications and make sure patient data remains confidential.

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As part of your compliance obligations, you must provide permanent visibility and audit reporting of all actions.



Open Systems Secure SD-WAN makes the complete enterprise audit trail easily accessible on the Customer Portal. Leverage full visibility to see details on who requested any particular system change and when.

NEW CLINIC



Unify your heterogeneous infrastructure

Connecting and securing healthcare networks, from the hospital to the clinic to the branch office, is complex. IT leaders want high availability across the environment and simple management that includes fast standardized setups, extensive automation, and deep visibility. It's a task that's only possible with a best-of-breed SD-WAN.

The Open Systems Secure SD-WAN is transport-agnostic, which – together with a standardized SD-WAN solution – enables us to establish site connectivity quickly. Fully automated hardware and line failovers protect uptime at every location, while complete visibility across global and local configurations instills confidence. Our expert-level support (NOC) engineers respond to – and coordinate all actions – in the event of a security incident.

Challenge

Open Systems solution



Open Systems is a leading global provider of a secure SD-WAN that enables enterprises to grow without compromise. With assured security, Al-assisted automation and expert management that free valuable IT resources, Open Systems delivers the visibility, flexibility and control you really want with the performance, simplicity and security you absolutely need in your network.