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Healthcare's Digital Tsunami

Why the future of smart hospitals depends on IT

Troy Yoder, Global Healthcare Leader

PSOIND-1008



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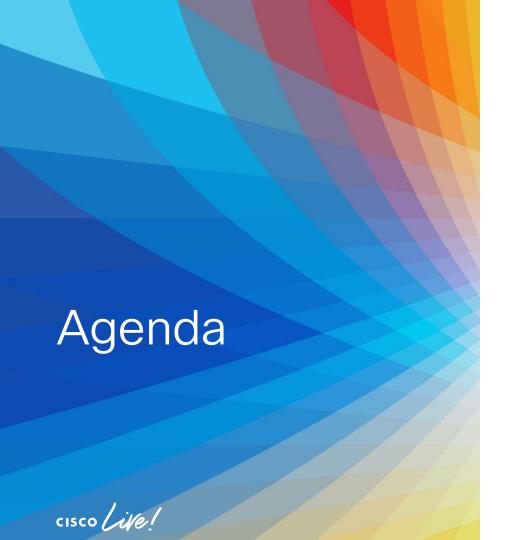
How

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https://ciscolive.ciscoevents.com/ciscolivebot/#PSOIND-1008



- IT/OT convergence
- uPoE emergence
- Sustainability meets security
- Three steps to securing healthcare enterprises
- Benefits of preparing today

Healthcare IT is getting more complex ...



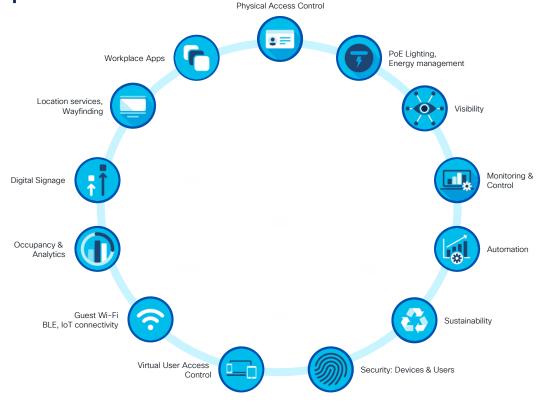


Connected hospital VR tour



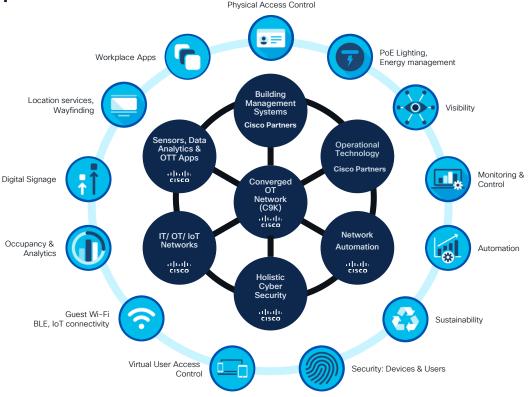


Convergence – operational enablement and patient experience



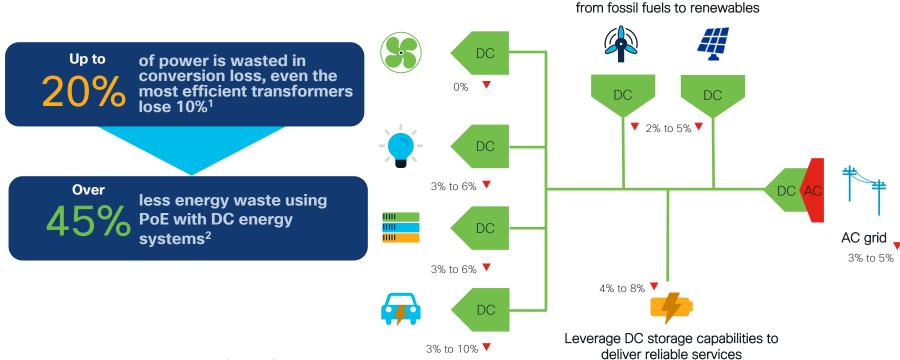


Convergence – operational enablement and patient experience





Smart hospitals can save energy and cost less to operate



1. Department of Energy, CTR, Ch 5, Section 5.6.5 (DC Systems)

cisco life!

Shift on-site power generation

^{2.} https://www.csagroup.org/wp-content/uploads/CSA-Group-Research-DC-Microgrids-In-Buildings.pdf

Convergence, operational enablement and patient experience

Building or retrofitting healthcare facilities



Estimated 4,000lbs of steel conduit removed



Estimated 265lbs of copper removed



Estimated \$3/sf saved in materials and labor



5-20% faster install

Ongoing operations



Commute savings for employees



Estimated 5-30 MWhr energy saved annually1



Up to \$4K saved annually in energy utilities bills



Achieve LEED Platinum & WELL Standards

Data per 25,000 sq. ft.

1. Lighting energy savings alone - DC PoE c. 14% more efficient than AC LED and up to 80% more efficient than incandescent lighting © 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public



How fast is the technology changing?

Power, connect, see, secure and segment

Class 2/3 Standard



Mature, safe, and accepted low voltage solution since 2014

UPoE+

One cable



Providing efficient power, connect and secure facilities infrastructure

CAT6



The digital tsunami has begun



From

15-20

connected devices per hospital room

to

30-40

connected devices per hospital room



Drive security resilience

The acceleration of digital technologies, IoT, IoMT and medical devices creates increased risk across the threat landscape



individuals were affected by healthcare cyber attacks in 2021, up from 34 million in 2020.¹



Increase in ransomware attacks on hospitals in the last year²



of connected medical and other IoT devices in hospitals have a known critical vulnerability³



Cybersecurity framework



VPN+MFA



NGFW



Network visibility



Policy



Microsegmentation



Endpoint security



DNS management



Malware protection



Workforce

Ensure only the right users and secure devices can access applications

Workplace

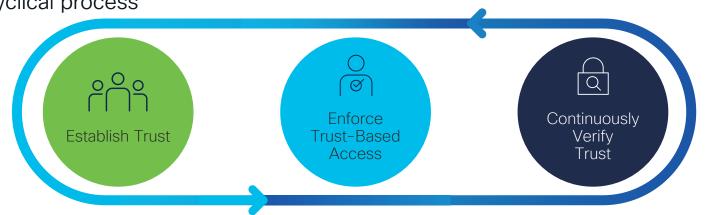
Secure all user and device connections across your network, including medical devices and IoT

Workloads

Secure all connections within your **apps**, across multi-cloud



How does Cisco zero trust work? 3 Step cyclical process



We establish trust by verifying:

- ✓ User & device identity
- ✓ Device posture & vulnerabilities
- ✓ Any workloads
- ✓ App/service trust
- ✓ Any indicators of compromise

We enforce least privilege access to:

- ✓ Applications
- ✓ Network resources
- ✓ Workload communications
- ✓ All workload users/admins
- ✓ Users, devices and things

We continuously verify:

- ✓ Original tenets used to establish trust are still true
- ✓ Traffic is not threat traffic
- ✓ Any risky, anomalous and malicious behavior
- ✓ If compromised, then the trust level is changed



Key business benefits



Reduce risk associated with both medical and IoT devices



Automate medical and IoT device tracking and inventory



Lower risk of medical record theft and fines for breaches



Higher average network uptimes and reduced cost of unplanned downtime procedures



Monitor device utilization to optimize workflows, meet utilization demands and drive lifecycle management schedules.



Improve patient safety



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Thank you



Cisco Live Challenge

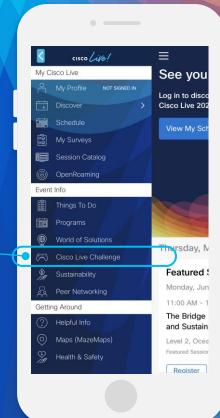
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Session Title: Healthcare's digital tsunami – why the future of smart hospitals depends on IT

 Abstract (1000 character limit): A future is almost here where every light, every screen, every device in every patient room is connected to a network switch for power, connectivity and security. And for many healthcare institutions, those assets are a net new endpoint for IT to manage and a new threat surface to secure. Add in the biomedical devices that were on a shadow network, personal wearables and company-owned mobile and the image of the endpoint tsunami becomes clear. We are at the beginning of a convergence of Information, operational and medical device systems where everything meets at the network as more devices are driven by power-over-ethernet (uPOE) to achieve sustainability goals. Learn more about how Cisco can help you manage the growing demand where IT manages almost every endpoint that uses electricity.

