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ONEteam

Improving The Nation's Cyber Security

The Impact of EO 14028

December 2, 2021



Cleveland Clinic

Rockwell
Automation

EO 14028 – Improving The Nation's Cyber Security



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Executive Order 14028: Vendor and End-User Perspectives

Tony Baker

Chief Product Safety and Security Officer



Kevin Tambascio

Cybersecurity Manager, IT/OT Attack Surface
Reduction



Quick Facts

Executive Order (EO) 14028, “Improving the Nation’s Cybersecurity”, issued on May 12, 2021

6x

Larger than the typical
Executive Order



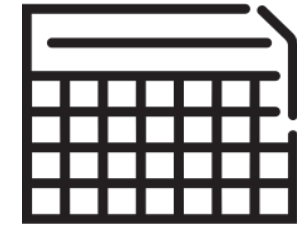
70+

Actionable directives



40+

Defined deadlines



The term “Operational Technology”, or “OT”, is used throughout.

Areas of Focus

-  Remove Barriers to Threat Information Sharing Between Government and the Private Sector.
-  Modernize and Implement Stronger Cybersecurity Standards in the Federal Government
-  Improve Software Supply Chain Security
-  Establish a Cybersecurity Safety Review Board
-  Create a Standard Playbook for Responding to Cyber Incidents
-  Improve Detection of Cybersecurity Incidents on Federal Government Networks
-  Improve Investigative and Remediation Capabilities

Themes

Information Sharing

Remove contractual barriers and requires that all US government contracts ensure service providers collect and share cyber event details with US agencies.

Private → Government

Modernization

Significant emphasis on moving to the cloud, providing guidance on adoption and implementation, providing support for incident response, and how to engage with partners like CISA and FBI.

Zero Trust

Supply Chain

Objectives related to baseline security standards, vendors making security data public, incentivizing innovative approaches to securing software development, introduction of an “energy star” type of label.

**Software Bill of Materials
 (“SBOM”)**

~30% of the directives in the EO are related to software supply chain security

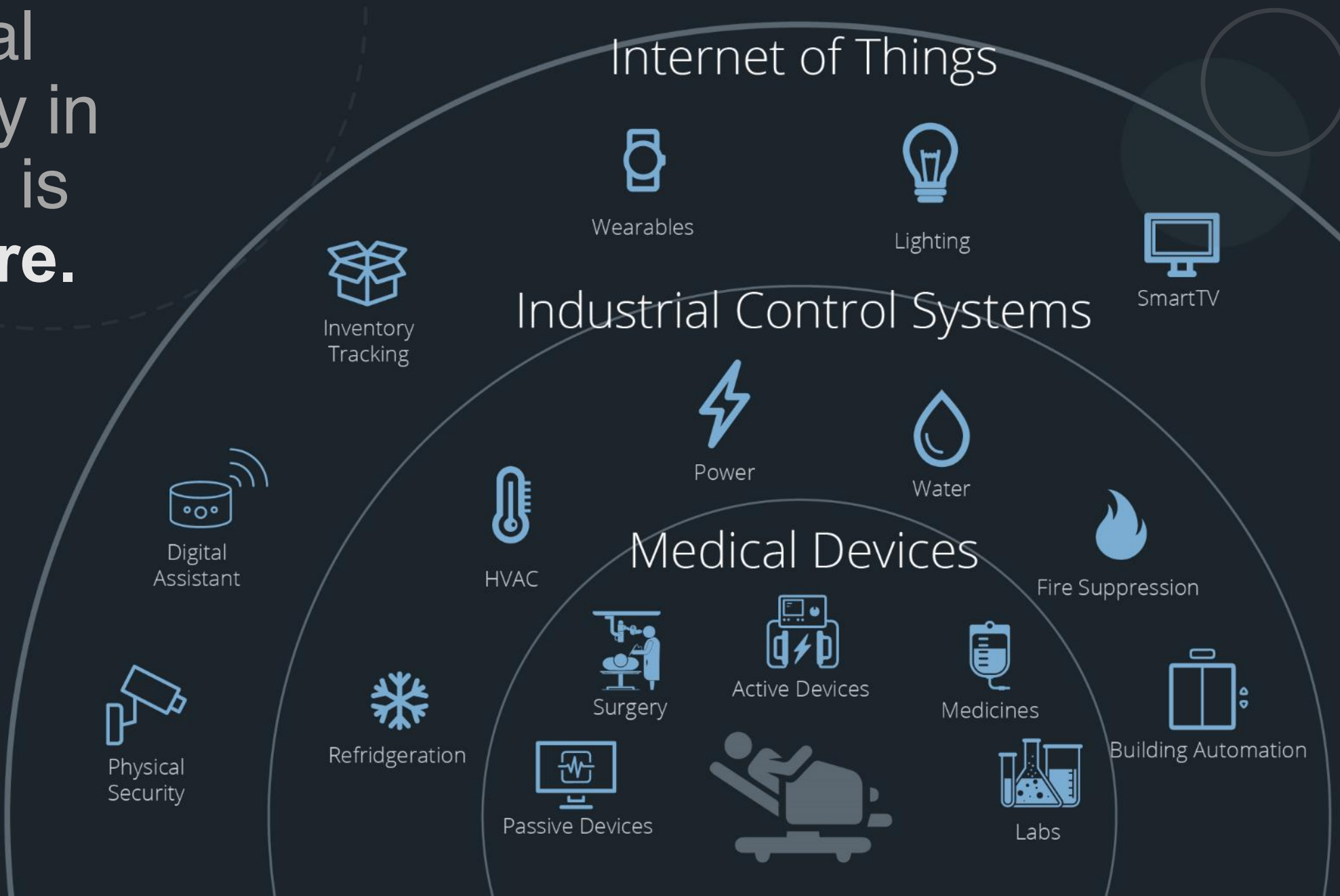
Vendor Impact

- Increased security information sharing with your customers
- Purposeful moving to “incentivize the market” leveraging “power of Federal procurement”
- Given the deadlines, expect changes to be swift
- (<7 months)



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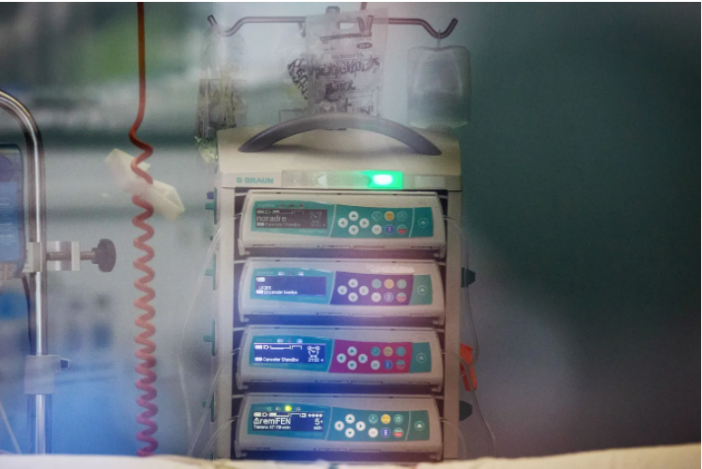
Operational Technology in healthcare is **everywhere.**



Cybersecurity Risks in Healthcare

Hackers Could Increase Medication Doses Through Infusion Pump Flaws

It would take a determined hacker to break into the vulnerable B. Braun products, but the impact could be devastating.



An attacker with access to a health care facility's network could take control of a SpaceStation by exploiting a common connectivity vulnerability. PHOTOGRAPH: ANGEL GARCIA/BLOOMBERG/GETTY IMAGES

Patient
Safety



Availability
of Care



Information
Disclosure

Why Healthcare is Vulnerable to Ransomware

Scripps Health hit with class action suits after ransomware attack

Four suits have been filed in state and federal court so far against the health system in the wake of a weeks-long network shutdown.

By [Kat Jercich](#) | June 23, 2021 | 01:24 PM

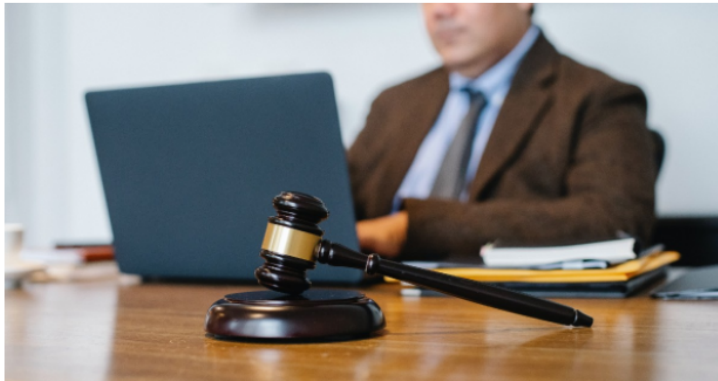


Photo: Sora Shimazaki/Pexels

Multiple class-action lawsuits have been filed in state and federal court against Scripps Health following the ransomware attack that took down its network this May.

As reported by the [San Diego Union-Tribune](#), all four of the cases make the same basic claim: that Scripps failed in its duty to protect patient information, subjecting patients to potential consequences, including identity theft and medical fraud.

"Despite the prevalence of public announcements of data breach and data security compromises, Defendant failed to take appropriate steps to protect the PII and PHI of Plaintiff and Class Members from being compromised," read one of the suits, filed on behalf of plaintiff Johnny Corning in San Diego Superior Court earlier this month.

<https://www.fiercehealthcare.com/tech/ransomware-attacks-cost-healthcare-industry-21b-2020-here-s-how-many-attacks-hit-providers>

Cybersecurity Executive Orders – Key Takeaways

Enhancing Software Supply Chain Security

- Secure software development lifecycles
- Integrity of source code
- Software Bill of Materials
- Encryption of data
- Vulnerability Disclosure Programs
- Vulnerability assessments and cybersecurity testing

Joint Public/Private Partnerships

- Develop new approaches to securing critical software
- Information sharing on breaches and incidents
- Standardized incident response playbooks
- Standardized software rating system

Security Measures for “EO-Critical Software” Use

Objective 1: Protect EO-critical software and EO-critical software platforms from unauthorized access and usage.

Objective 2: Protect the confidentiality, integrity, and availability of data used by EO-critical software and EO-critical software platforms.

Objective 3: Identify and maintain EO-critical software platforms and the software deployed to those platforms to protect the EO-critical software from exploitation.

Objective 4: Quickly detect, respond to, and recover from threats and incidents involving EO-critical software and EO-critical software platforms.

Objective 5: Strengthen the understanding and performance of humans’ actions that foster the security of EO-critical software and EO-critical software platforms.

Cybersecurity Executive Orders – Will they reduce risk for ransomware?

Yes, Promising Start. Impact won't be right away...

- VA is one the largest healthcare institutes and will impact medical vendors
- Enact change with a strong message to operators and vendors to improve

Basic Cybersecurity Hygiene Practices will reduce ransomware risk

- Improvements in vendors and products they sell
- Increased transparency enables risk analysis, controls, and incident response
- SBOM content will help drive vulnerability management practices
- Publicly available standards and playbooks help small-to-medium entities

HSCC Model Contract Language

- Includes many of the EO principles that we intend to use in our contract language

Who Is Responsible for Security – the Vendor or the Owner / Operator?

How Do You Identify Vulnerabilities in Products / Devices? Who Fixes Them?

Q & A



Special Offers for Attendees

- ❑ Security Risk Ratings Report
 - ASMGi is offering a complimentary SecurityScorecard Detailed Security Ratings for your organization as well as up to three (3) third-party entities that are critical vendors for your organization as well as a session to review the information provided in the report.
- ❑ 50% Off a DevSecOps Maturity Assessment (includes information on creating an SBOM)

Contact sales@asmgi.com by Dec 17, 2021!





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