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Health Sector Coordinating Council Cybersecurity Working Group

Briefing for

Healthcare Leadership Council Confidentiality Coalition

March 23, 2023

Greg Garcia,
Executive Director

Approved for Public Release

Health Sector Coordinating Council Origin and Mission

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Healthcare is Critical Infrastructure
Federal Policy Foundation

- PDD-63 – Critical Infrastructure Protection - 1998
- Patriot Act, 2001 – Defined the term "critical infrastructure
- HSPD-7 – Critical Infrastructure Identification, Prioritization, And Protection; Established National policy for Federal departments and agencies to identify and prioritize critical infrastructure and to protect them from terrorist attacks – 2003
- E.O. 13636 (PPD-21) - Improving Critical Infrastructure Cybersecurity (resulted in the NIST Cybersecurity Framework)- 2013
- Cybersecurity Act of 2015 – Created (§405c) the Health Care Industry Cybersecurity Task Force and (§405d) the HHS-industry partnership program that joined the HSCC Cybersecurity Working Group and produced the Health Industry Cybersecurity Practices
- E.O. 13800--2017 Strengthening the Cybersecurity of Federal Networks and Critical Infrastructure
- National Defense Authorization Act, FY '21 (§9002, p. 1382) - Specifying partnership responsibilities of Sector Risk Management Agencies - 2020
- PL-116-321 – HITECH Act Amendment (H.R. 7898) to require Office for Civil Rights to consider breached covered entities' use of the NIST CSF, HICP or other 405d recognized practices as potential mitigation of penalty fines and audit - 2021
- E.O. 14028 - Improving the Nation's Cybersecurity – 2021
- National Cybersecurity Strategy ,March 2023 - Emphasis on protecting critical infrastructure with minimum security standards

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Health Sector Coordinating Council (HSCC)

- The cross-sector industry coordinating body representing one of 16 critical infrastructure sectors recognized under Presidential Executive Order (PPD-21)
- Serves as an industry Advisory Committee under a special "Critical Infrastructure Partnership Advisory Council" exemption from Federal Advisory Committee Act public notification requirements, to protect sensitive deliberations with government
- A trust-community partnership convening health providers, companies, non-profits and industry associations across six subsectors
- ***Mission: to identify cyber and physical risks to the security and resiliency of the sector, develop guidance for mitigating those risks, and work with government to facilitate threat preparedness and incident response***
- Focused on longer-term critical infrastructure policy and strategy, complementing the operational activities of the Health Information Sharing and Analysis Center

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HSCC Cybersecurity Working Group (CWG)

- Largest standing Working Group under the HSCC umbrella
  - 383 organizational Industry members, including:
    - 45 Industry association members
    - 49 non-voting Advisor companies
    - 16 Government organizations include 10 federal agencies, 2 state agencies, 2 city agencies, and 2 Canadian
- Identifies and develops strategic, cross-sector solutions to cybersecurity threats and vulnerabilities affecting the security and resiliency of the healthcare sector
- Outcome-oriented task groups meet regularly through the year; Full CWG meets twice a year around the country
- Works closely on joint initiatives with:
  - HHS Administration for Strategic Preparedness and Response
  - HHS Office of the Chief Information Officer
  - Food and Drug Administration

Membership

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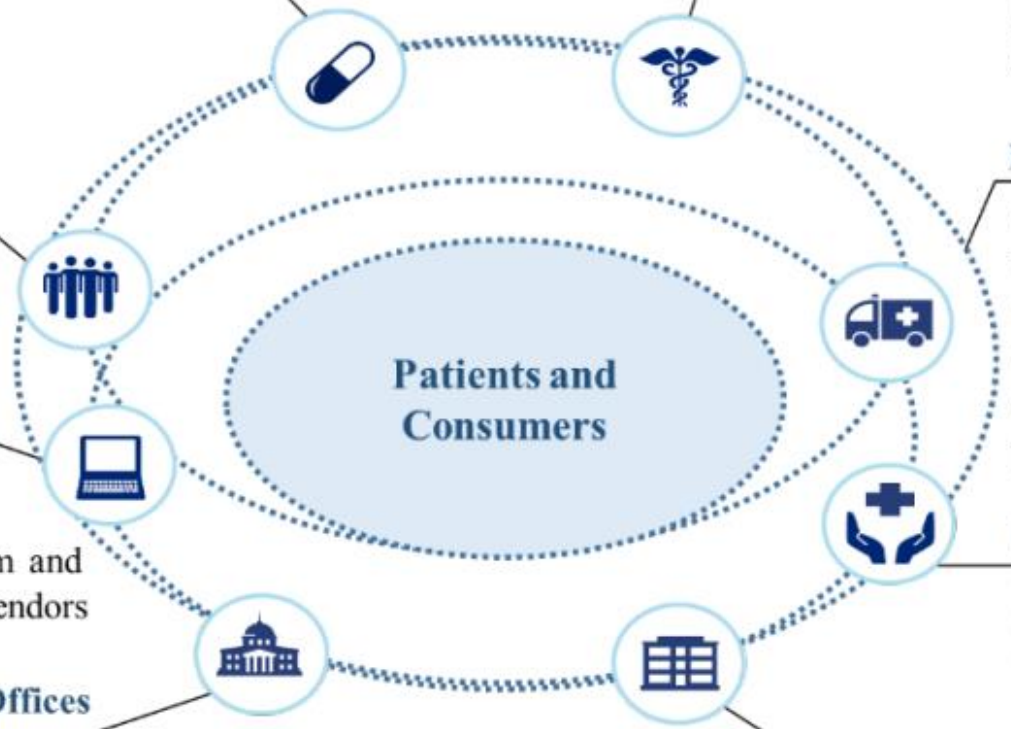
The Interconnected Healthcare Ecosystem



Laboratories, Blood & Pharmaceuticals

Pharmaceutical Manufacturers
Drug Store Chains
Pharmacists' Associations
Public and Private Laboratory Associations
Blood Banks

Medical Materials

Medical Equipment & Supply Manufacturing & Distribution
Medical Device Manufacturers

Health Information Technology

Medical Research Institutions
Information Standards Bodies
Electronic Medical Record System and Other Clinical Medical System Vendors

Federal Response & Program Offices

Coordinated Response Activities Under Emergency Support Function 8 Government Coordinating Council
Federal Partners (e.g., HHS, DoD, other sector partners)

Direct Patient Care

Healthcare Systems
Professional Associations
Medical Facilities
Emergency Medical Services
Consumer Devices \ BYOD

Mass Fatality Management Services

Cemetery, Cremation, Morgue, and Funeral Homes
Mass Fatality Support Services (e.g., coroners, medical examiners, forensic examiners, & psychological support personnel)

Health Plans and Payers

Health Insurance Companies & Plans
Local and State Health Departments
State Emergency Health Organizations

Public Health

Governmental Public Health Services
Public Health Networks

2023 Subsector Distribution

- Direct Patient Care: **41%**
- Health Information Technology: **10.4%**
- Health Plans and Payers: **5%**
- Mass fatality and Management Services: **0**
- Medical Materials: **9.1%**
- Laboratories, Blood, Pharmaceuticals: **6.8%**
- Public Health: **3.9%**
- Cross-sector: **8.9%**
- Government (Fed, State, County, Local): **4.1%**
- Advisors: **11.2%**

Governance

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Cybersecurity Working Group Structure

HPH-SCC INDUSTRY LEADERSHIP

HHS CWG CO-CHAIRS & GCC

Executive Committee

- Direct Patient Care
- Health I.T.
- Plans & Payers
- Pharma, Labs & Blood
- Medical Materials/ Technology
- Public Health
- Cross Sector

Chair

Vice-Chair

Active Task Groups - 2023

- FIVE-YEAR STRATEGIC PLAN
- INCIDENT RESPONSE / BUSINESS CONTINUITY (IRBC)
- POLICY
- WORKFORCE DEVELOPMENT
- OUTREACH & AWARENESS
- MEASUREMENT
- 405d CYBERSECURITY PRACTICES
- PRIVACY-SECURITY COLLABORATION
- PUBLIC HEALTH CYBERSECURITY
- MEDTECH CYBERSECURITY JOINT SECURITY PLAN
- MEDTECH VULNERABILITY COMMUNICATIONS
- MEDTECH LEGACY SECURITY
- RISK ASSESSMENT
- SUPPLY CHAIN RISK MANAGEMENT

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HSCC CYBERSECURITY WORKING GROUP
2023 Executive Committee

CHAIR: Erik Decker,
Vice President & CISO
Intermountain
Healthcare

VICE CHAIR: Chris Tyberg
Chief Information Security
Officer, Abbott

Julian Goldman MD,
Medical Director,
Biomedical Engineering,
Mass General Brigham

Samantha Jacques
Vice President Corporate
Clinical Engineering,
McLaren Healthcare

Leslie A. Saxon, MD,
Executive Director,
USC Center for Body Computing

Janet Scott, Vice President,
Business Technology Risk
Management and CISO,
Organon

Leanne Field, PhD, M.S.
Clinical Professor &
Director, Public Health
Program, The University
of Texas at Austin

Denise Anderson,
President & CEO,
Health Information
Sharing & Analysis
Center

Jonathan Bagnall,
Cybersecurity Global
Market Leader,
Philips

Dr. Adrian Mayers
Vice President & CISO,
Premera Blue Cross

Sanjeev Sah,
Vice President & CISO
Centura Health

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2023 Government Co-Chairs

Suzanne Schwartz
Director
Office of Strategic Partnerships & Technology Innovation
Center for Devices and Radiological Health
U.S. Food and Drug Administration

Julie Chua
Director, GRC Division
HHS Office of the Chief Information Officer

Bob Bastani
Senior Cyber Security Advisor
Security, Intel, and Information Management Division
Administration for Strategic Preparedness and Response
U.S. Department of Health and Human Services

Cybersecurity Objectives

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HEALTH CARE INDUSTRY CYBERSECURITY TASK FORCE

June 2017

HEALTHCARE CYBERSECURITY IS IN CRITICAL CONDITION

Severe Lack of Security Talent
The majority of health delivery orgs lack full-time, qualified security personnel

Legacy Equipment
Equipment is running on old, unsupported, and vulnerable operating systems.

Premature/Over-Connectivity
'Meaningful Use' requirements drove hyper-connectivity without secure design & implementation.

Vulnerabilities Impact Patient Care
One security compromise shut down patient care at Hollywood Presbyterian and UK Hospitals

Known Vulnerabilities Epidemic
One legacy, medical technology had over 1,400 vulnerabilities

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Cybersecurity Objectives

CWG Task Groups formed to implement the

2017 Healthcare Industry Cyber Security Task Force Imperatives:

1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity.
2. Increase the security and resilience of medical devices and health IT
3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities
4. Increase healthcare industry readiness through improved cybersecurity awareness and education
5. Identify mechanisms to protect R&D efforts and intellectual property from attacks and exposure
6. Improve information sharing of industry threats, risks, and mitigations

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Task Groups 2023

- **405(d) HEALTH INDUSTRY CYBERSECURITY PRACTICES (HICP)**

Ongoing enhancement of 405(d) HICP resources

- **5-YEAR PLAN**

Update the Health Care Industry Task Force (HCIC) recommendations as a five-year plan reflecting emerging threat scenarios in a rapidly evolving healthcare system

- **INCIDENT RESPONSE - BUSINESS CONTINUITY**

Develop a healthcare cyber incident response and business continuity plan aligned with existing physical incident response protocols. First publication on emergency management after extended cyber-related outage released April 2022

- **MEASUREMENT**

Developing methodology for health sector specific cybersecurity performance goals.

- **POLICY**

Activates as needed for policy proposals and response

- **MEDTECH LEGACY SECURITY**

Providing guidance for Medical Device manufacturers, services and health delivery organizations about managing cybersecurity

- **MEDTECH CONTRACT LANGUAGE**

Monitoring implementation of its published Model Contract for Cybersecurity (MC2)

- **MEDTECH SECURITY DEVELOPMENT (JOINT SECURITY PLAN UPDATE - JSP2)**

Published Medical Device and Health IT Joint Security Plan (JSP); and benchmarking report. Developing updated JSP2.

- **MEDTECH VULNERABILITY COMMUNICATIONS**

Provide guidance on preparing, receiving and acting on medical device vulnerabilities communications. First publication on patient awareness released April 2022. Second version on HDO preparedness.

- **OUTREACH & AWARENESS**

Focused, resourced and creative attention on leveraging government, industry associations and other stakeholders to build national health sector awareness and adoption of HSCC cybersecurity resources, NIST CSF, etc.

- **PRIVACY-SECURITY COLLABORATION**

Facilitate the interdependence of security and privacy risk to confidentiality, integrity, and availability of entity systems, data, etc., in patient safety and care.

- **PUBLIC HEALTH**

Identify strategies for strengthening the cybersecurity and resilience of SLTT public health agencies with the support of private sector and academic organizations.

- **RISK ASSESSMENT**

Finalized NIST Cyber Framework Implementation guide; under review by HHS for co-branding

- **SUPPLY CHAIN**

Results of pending survey on critical supplier risk management will inform subsequent development of related best practices.

- **WORKFORCE DEVELOPMENT**

Preparing series of cybersecurity training videos for clinicians and healthcare students; Reviewing potential production companies for cost and outside funding opportunities

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HSCC CYBERSECURITY WORKING GROUP
Guidance Publications, 2019-2023

SEE: https://healthsectorcouncil.org/hscc-publications

- **March 2023** https://aspr.hhs.gov/cip/hph-cybersecurity-framework-implementation-guide
- **March 2023** Health Industry Cybersecurity – Managing Legacy Technology Security
- **February 2023** Health Industry Cybersecurity-Artificial Intelligence Machine Learning (HIC-AIM)
- **May 2022** Operational Continuity-Cyber Incident Checklist
- **April 2022** MedTech Vulnerability Communications Toolkit (MVCT)
- **March 2022** Model Contract-Language for Medtech Cybersecurity (MC2)
- **April 2021** Health Industry Cybersecurity – Securing Telehealth and Telemedicine
- **September 2020** Health Industry Cybersecurity Supply Chain Risk Management

continued….

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HSCC CYBERSECURITY WORKING GROUP
Guidance Publications, 2019-2023

SEE: https://healthsectorcouncil.org/hscc-publications

- **June 2020** — Health Sector Return-to-Work (R2W) Guidance
- **May 2020** — Health Industry Cybersecurity Tactical Crisis Response
- **May 2020** — Health Industry Cybersecurity Protection of Innovation Capital
- **March 2020** — Health Industry Cybersecurity Information Sharing Best Practices
- **March 2020** — Management Checklist for Teleworking Surge During COVID-19
- **October 2019** — Health Industry Cybersecurity Matrix of Information Sharing Organizations
- **June 2019** — Health Industry Cybersecurity Workforce Guide
- **January 2019** — Medical Device and Health IT Joint Security Plan (JSP)
- **January 2019** — Health Industry Cybersecurity Practices (HICP)

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Publications on Deck

- "Cybersecurity for the Clinician" 8-part video training series – Q2 2023
- Medical Device and Health I.T. Joint Security Plan v2 (JSP2) – Q2 2023
- Enterprise Incident Response Plan (EIRP) – Q2 2023

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HEALTH SECTOR COORDINATING COUNCIL
Joint Cybersecurity Working Group

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