Healthcare & Public Health
Sector Coordinating Councils

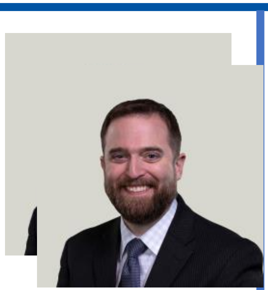
PUBLIC PRIVATE PARTNERSHIP

HSCC Cybersecurity Working Group

2023 Q1 Progress Report

March 31, 2023

Chairman's Forward



Erik Decker
Industry Co-Chair
HSCC Cybersecurity
Working Group

2023 is off to a demanding and impactful first quarter. We left the month of March well on the march, with continuing momentum in:

- **Membership** – 36 new member organizations since the start of the year;
- **Publications** – 3 documents in as many months, including 1 joint HHS-HSCC publication and 2 more joint publications coming in Q2 and at least 3 more HSCC offerings in Q2;
- **Visibility** – multiple HSCC leadership appearances at conferences, webinars, press features and Congressional testimony;and
- **Partnership** – Increasing engagement between HHS and HSCC in the frequency and substance of our joint efforts, including formation of two new joint task groups.

The tremendous motivation and momentum behind our joint efforts is inspiring. But over time the results of that momentum and output need to be measured in terms of real improvement in the cybersecurity posture of the sector as a whole and of the individual subsectors with their unique enterprise risk and regulatory profiles.

And there is an app for that! It is us. Download it and use it. While our task groups are busy developing toolkits for meeting our operational and governance objectives, we have embarked officially on our Five-Year strategic plan. This project will accelerate with our second deep-dive workshop at the April 25-26 All-Hands meeting in Minneapolis, which follows our first official session last November at the Washington DC All-Hands. If this process is successful over the next few months, we will present a plan this time next year laying out a clear assessment of the health industry's evolution and its cyber challenges over the next five years; how we should be preparing security management across the enterprise up to the C-Suite; and what commitments the HSCC as a change-agent and our government can reasonably make together in the form of programs and policy to facilitate achievement of our goals.

We were told in 2017 that "healthcare cybersecurity is in critical condition." So, what do we have to do now and over the coming months and years to be able to say in 2029 that "healthcare cybersecurity is in stable condition?" And how will we prove it?

The answer, to paraphrase Shakespeare, "lies not in our stars but in ourselves."

MEMBERSHIP INCREASING

CWG Q1 2023 Membership by the Numbers

36 new industry members Since January 1 - Increase of 10%

- 409 organizational Industry members, including:
  - 47 Industry association members
  - 54 non-voting Advisor companies
- Government organizations include 10 federal agencies, 3 state agencies, 2 city agencies, and 2 Canadian
- Total representing personnel: 857

Q1 2023 Subsector Distribution

- Direct Patient Care: **39.4%**
- Medical Materials: **8.8%**
- Cross-sector: **8.8%**
- Pharmaceuticals, Laboratories, Blood: **6.4%**
- Public Health: **5.3%**
- Health Plans and Payers: **4.6%**
- Government (Fed, State, County, Local): **4.2%**
- Health Information Technology: **9.5%** *(Note: This percentage is to be adjusted; some member representatives have mistakenly self-identified as "Health IT" according to their job description rather than to their organizational subsector)*
- Advisors: **13.2%**

Q1 2023 Report

ACTIVITY

Q1 2023 Public and Member Briefings

HSCC Webinars & Appearances

- Healthcare Leadership Council
- Manatt Webinar on Healthcare Cybersecurity Risks
- Medical Device Innovation Consortium Webinar and Press Event
- Medical Imaging & Technology Alliance
- Poneman Institute Supply Chain Webinar
- Texas Tech / FDA Costa Rica CyberMed Conference
- The Clearinghouse,
- ViVE Conference Panel Discussion

Congressional Testimony

Senate Committee on Homeland Security and Government Affairs

New Joint HHS-HSCC Work Streams

- HHS/HSCC Public Health Cybersecurity Task Group
- Privacy-Security Collaboration Task Group
- Ad-hoc Joint HHS/HSCC Hospital Resiliency Initiative

HSCC CWG PUBLICATIONS
2019-23

Guidance Publications, 2019-2023

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

March 2023	HPH Cybersecurity Framework Implementation Guide
March 2023	Health Industry Cybersecurity – Managing Legacy Technology Security
February 2023	Health Industry Cybersecurity-Artificial Intelligence Machine Learning
May 2022	Operational Continuity-Cyber Incident Checklist
April 2022	MedTech Vulnerability Communications Toolkit
March 2022	Model Contract-Language for Medtech Cybersecurity
April 2021	Health Industry Cybersecurity – Securing Telehealth and Telemedicine
September 2020	Health Industry Cybersecurity Supply Chain Risk Management

continued….

Guidance Publications, 2019-2023

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

• June 2020	Health Sector Return-to-Work 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)

Q2 Publications on Deck

- (Joint) Health Industry Cybersecurity Practices (HICP 2023) - April
- (Joint) Operational Continuity-Cyber Incident – Q2
- Medical Device and Health I.T. Joint Security Plan v2 (JSP2) – Q2
- Enterprise Incident Response Plan (EIRP) – Q2
- (Joint) Hospital Cyber Resiliency Landscape Analysis – Q2
- Policy Considerations and Prioritized Recommended Cybersecurity Practices – Q2

Addressing the 2017 “Health Care Industry Cybersecurity Task Force” Recommendations

HCIC IMPERATIVES	CWG DELIVERABLES	DATE DELIVERED
1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity	• NIST CSF Healthcare Implementation Guide • Operational Continuity-Cyber Incident Checklist • Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM) • Health Industry Cybersecurity Practices (HICP)	March 2023 May 2022 September 2020 December 2018
2. Increase the security and resilience of medical devices and health IT	• Health Industry Cybersecurity-Managing Legacy Technology Security • Health Industry Cybersecurity-Artificial Intelligence Machine Learning (HIC-AIM) • Medtech Vulnerability Communications Toolkit • Model Contract Language for Medtech Cybersecurity (MC^2) • Health Industry Cybersecurity – Securing Telehealth and Telemedicine (HIC-STAT) • Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM) • Management Checklist for Teleworking Surge During COVID-19 Response • Medical Device and Health I.T. Joint Security Plan (JSP) • Health Industry Cybersecurity Practices (HICP)	March 2023 February 2033 April 2022 March 2022 April 2021 September 2020 March 2020 January 2019 December 2018
3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities	• Cybersecurity for the Clinician Video Training Series • Health Industry Cybersecurity Workforce Development Guide	March 2023 June 2019

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HCIC IMPERATIVES	CWG DELIVERABLES	DATE DELIVERED
4. Increase healthcare industry readiness through improved cybersecurity awareness and education	• Cybersecurity for the Clinician Video Training Series • NIST CSF Healthcare Implementation Guide • Health Industry Cybersecurity-Managing Legacy Technology Security • Health Industry Cybersecurity-Artificial Intelligence Machine Learning • Operational Continuity-Cyber Incident Checklist • Medtech Vulnerability Communications Toolkit • Health Sector Return to Work Guidance • Health Industry Cybersecurity Tactical Crisis Response Guide • HSCC Multimedia Promotions for National Cyber Security Awareness Month (blogs, podcast, webinars) • HICP, HIC Workforce, HIC-MISO, JSP, HIC-SCRiM	**March 2023** **March 2023** **March 2023** **February 2023** **May 2022** **April 2022** **June 2020** **May 2020** **October 2019** **2019-2020**
5. Identify mechanisms to protect R&D efforts and intellectual property from attacks and exposure	• Health Industry Cybersecurity Intellectual Property Protection Guide	**May 2020**
6. Improve information sharing of industry threats, risks, and mitigations	• NIST CSF Healthcare Implementation Guide • Operational Continuity-Cyber Incident Checklist • Health Sector Return to Work Guidance • Health Industry Cybersecurity Tactical Crisis Response Guide • Health Industry Cybersecurity Information Sharing Best Practices • Health Industry Cybersecurity Matrix of Information Sharing Organizations (HIC-MISO)	**March 2023** **May 2022** **June 2020** **May 2020** **March 2020** **September 2019**

2023 TASK GROUPS

Healthcare & Public Health
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Task Groups
Q1 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 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

- ***AD HOC POLICY CONSIDERATIONS*** - HSCC suggestions for government consideration of options for policy and program support for health provider cybersecurity

2023 Priority:
Five Year Strategic Plan

Health Sector Cybersecurity Five-Year Strategic Plan

Five years after publication of 2017 HHS-Health Care Industry Cybersecurity Task Force report found healthcare cybersecurity to be in “critical condition”:

- Identify the HCIC recommendations that the HSCC Cybersecurity Working Group publications have addressed, and which remain a priority for CWG and sector attention;

- Assess how identified healthcare industry trends over the next five years may present continued or emerging cybersecurity challenges to the sector;

- Recommend how the industry and government should prepare for those changes, with a measurable vision of what “Stable Condition” looks like in 2029; and

- Prescribe specific initiatives and tactics that the CWG and government must do as a public-private partnership to motivate and facilitate achievement of those preparedness objectives.

GOVERNANCE

Healthcare & Public Health
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2023 Executive Committee

CHAIR: Erik Decker, VP - Chief Information Security Officer, 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 & Founding Director, Public Health Program, The University of Texas at Austin

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

Jonathan Bagnall
Head of Cybersecurity, Digital Service & Solutions – Medical Technology, (CE), Fresenius Medical Care

Dr. Adrian Mayers, Vice President, Chief Security Officer, Premera Blue Cross

Sanjeev Sah, Vice President, Chief Security Officer, Centura Health

2023 Government Co-Chairs

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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
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