

HEALTH SECTOR COORDINATING COUNCIL JOINT CYBERSECURITY WORKING GROUP

HSCC Joint Cybersecurity Working Group 2019 Annual Report

January 2020

HEALTH SECTOR COORDINATING COUNCIL JOINT CYBERSECURITY WORKING GROUP ANNUAL REPORT

Chairman's Forward



Terry Rice
Industry Co-Chair
HSCC Joint Cybersecurity
Working Group

Looking back on our work and progress in 2019, I am pleased to release the Annual Report of the Health Sector Coordinating Council's Joint Cybersecurity Working Group.

As far as we have progressed in 2019, it may be easy to forget that in 2017, the Health Care Industry Cybersecurity Task Force (HCIC TF) diagnosed that the state of healthcare cybersecurity was in "critical condition." In responding to that challenge with many impactful work products developed by our active members and government partners this year, we have advanced the mission to address all six major HCIC TF recommendations and mapped a path to strengthen the healthcare sector's security and resiliency.

In the end, however, we won't succeed solely by the quantity of white papers, letters, guidelines, or best practices that we produce. Instead, the collective implementation of our work toward measurable improvements to our security posture as an interconnected, interdependent industry – in close partnership with government - will make real and lasting impact to the benefit of our sector and patient safety. The HSCC JCWG depends on our membership and the broader health care community to adopt HSCC recommendations and to be HSCC ambassadors to your peer organizations. As cybersecurity professionals in the health sector, we know that our work is never truly done as our adversaries continue to adapt and inflict damage at a very quick pace. But as we continue to take our cybersecurity medicine and maintain a systemic regimen of good cyber hygiene, I predict we'll be able to report that the health sector is in fully "stable condition" against the ongoing and evolving cyber threats to health care delivery and patient safety.

Congratulations for a successful year. Let's build on the momentum.

Membership and Governance

CWG Membership by the Numbers

Since February 2018

- Increase from 60 to 221 voting organizational members
- January-December 2019 increase from 200-221 voting members
- 36 non-voting Advisor companies
- Industry association members increase from 5 to 38
- Government organizations include 8 federal agencies, 2 state agencies, 2 city agencies, and 2 Canadian
- Total representing personnel: 495

2020 Organizational Membership Subsector Distribution

- Direct Patient Care: **58.87%**
- Health Information Technology: **7.5%**
- Health Plans and Payers: **5.6%**
- Mass fatality and Management Services: **0**
- Medical Materials: **7.9%**
- Laboratories, Blood, Pharmaceuticals: **5.1%**
- Public Health: **6.6%**
- Cross-sector: **1.9%**
- Government (Fed, State, County, Local): **6.5%**

2019 Webpage Metrics, Social Media, and Press Foot-Print

Webpage Views 2018 vs. 2019

Total Page Views

- 2019: 34,903 / 2018: 5,817
- **500% Increase**

Unique Page Views

- 2019: 31,028 / 2018: 4,365
- **611% Increase**

Social Media Followers (since account opening October 2018)

- LinkedIn: 150
- Twitter: 75

Press Mentions

- 25 Press Mentions in 2019.
 - 2 Press Mentions per month on average.

HSCC JOINT CYBERSECURITY WORKING GROUP

2020 Executive Committee

NAME	AFFILIATION	ROLE	SUBSECTOR	END OF TERM
CHAIR: TERRY RICE	MERCK & CO.	CISO	PHARMA, LABS & BLOOD	DECEMBER 2020
VICE CHAIR: THERESA MEADOWS	COOK CHILDREN'S HEALTH CARE SYSTEM	CIO	DIRECT PATIENT CARE	DECEMBER 2020
DIRECT PATIENT CARE				
NAME	AFFILIATION	ROLE	END OF TERM	
ERIK DECKER	UNIVERSITY OF CHICAGO MEDICAL CENTER	CHIEF INFORMATION SECURITY OFFICER	DECEMBER 2021	
THERESA MEADOWS	COOK CHILDREN'S HEALTHCARE SYSTEM	SENIOR VICE PRESIDENT AND CHIEF INFORMATION OFFICER	DECEMBER 2020	
HEALTH INFORMATION TECHNOLOGY				
NAME	AFFILIATION	ROLE	END OF TERM	
TOM LEARY	HEALTHCARE INFORMATION & MANAGEMENT SYSTEMS SOCIETY (HIMSS)	VICE PRESIDENT, GOVERNMENT RELATIONS	DECEMBER 2020	
HEALTH PLANS AND PAYERS				
NAME	AFFILIATION	ROLE	END OF TERM	
MARILYN ZIGMUND LUKE	AMERICA'S HEALTH INSURANCE PLANS	VICE PRESIDENT	DECEMBER 2019	
MEDICAL MATERIALS				
NAME	AFFILIATION	ROLE	END OF TERM	
MICHAEL MCNEIL	PHILLIPS	HEAD OF PRODUCT SECURITY & SERVICES OFFICE	DECEMBER 2019	

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2020 Executive Committee

PHARMACEUTICALS, LABS AND BLOOD			
NAME	AFFILIATION	ROLE	END OF TERM
GREG BARNES	AMGEN	CHIEF INFORMATION SECURITY OFFICER	DECEMBER 2021
PUBLIC HEALTH			
NAME	AFFILIATION	ROLE	END OF TERM
SRI BHARADWAJ	UC IRVINE HEALTH	CHIEF INFORMATION SECURITY OFFICER	DECEMBER 2020
CROSS SECTOR			
NAME	AFFILIATION	ROLE	END OF TERM
DENISE ANDERSON	HEALTH ISAC	PRESIDENT	DECEMBER 2021
AT-LARGE			
NAME	AFFILIATION	ROLE	END OF TERM
MARK JARRETT	NORTHWELL HEALTH	CHIEF QUALITY OFFICER, SENIOR VICE PRESIDENT & DEPUTY CHIEF MEDICAL OFFICER	DECEMBER 2019

HSCC JOINT CYBERSECURITY WORKING GROUP

Government Co-Chairs

Suzanne Schwartz

Deputy Director (& Acting Director)
Office of Strategic Partnerships & Technology Innovation (OST)
Center for Devices and Radiological Health
U.S. Food and Drug Administration

Bob Bastani

Senior Cyber Security Advisor
Security, Intel, and Information Management Division
Office of the Assistant Secretary for Preparedness & Response
U.S. Department of Health and Human Services

Julie Chua

Risk Management Branch Chief
HHS Office of the Chief Information Officer

Meeting the Challenge

**Prescription for Cyber Health:
Health Care Industry Cybersecurity (HCIC) Task Force –
Six Imperatives and 105 Action Items**

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

HEALTH SECTOR COORDINATING COUNCIL
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2019-20 New Task Groups

- International Engagement
- Security Clearances
- SCC Cyber Incident Roles and Responsibilities
- Cyber Regulatory Harmonization Review
- Emerging Technology Risk Analysis
- Standardizing Vulnerability Communications
- Legacy Device Management & Replacement
- Security Adoption Metrics

HSCC JOINT CYBERSECURITY WORKING GROUP

2020 Task Group Roster

RISK ASSESSMENT	SUPPLY CHAIN SECURITY	POLICY AND REGULATION	INFORMATION SHARING	EXERCISES	INCIDENT RESPONSE
MEDTECH SECURITY	TELEMEDICINE SECURITY	WORKFORCE	FUTURE GAZING	INTERNATIONAL	REGULATORY HARMONIZATION
LEGACY DEVICE MANAGEMENT & REPLACEMENT			TECHNOLOGY RISK ANALYSIS		
STANDARDIZING VULNERABILITY COMMUNICATIONS					
INTELLECTUAL PROPERTY DATA SECURITY	HOSPITAL CYBER BEST PRACTICES	CROSS SECTOR	MARKETING	SECURITY CLEARANCES	HEALTH CYBERSECURITY ADOPTION METRICS

2019 Guidance Publications

- October 15 Publication of *Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM)*
- September 9 Publication of *Health Industry Cybersecurity Matrix of Information Sharing Organizations (HIC-MISO)*
- June 17 Publication of *Healthcare Industry Cybersecurity Workforce Guide*
- January 28 Publication of *Medical Technology Joint Security Plan*
- December 28 Publication of “Section 405(d)” *Health Industry Cybersecurity Practices (HICP)*
 - *Development and publication of series of instructional HICP videos - <https://hisac.org/health-industry-cybersecurity-practices/>*
- *Coming: January 2020 Publication of Health Industry Cybersecurity Protection of Innovation Capital*

HSCC JOINT CYBERSECURITY WORKING GROUP

Addressing the HCIC Recommendations

HCIC IMPERATIVES	ANSWERED: HSCC JOINT CYBERSECURITY WORKING GROUP DELIVERABLES	DATE DELIVERED
<p>1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Practices (HICP) • CWG letters to HHS in 2018 (Oct. 26 -OIG and August 28-CMS) calling for Stark rule waiver to allow cyber assistance accepted in HHS proposed rule 	<p>December 28, 2018 October 9, 2019</p>
<p>2. Increase the security and resilience of medical devices and health IT</p>	<ul style="list-style-type: none"> • Medical Device and Health I.T. Joint Security Plan (JSP) • Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM) 	<p>January 28, 2019 October 15, 2019</p>
<p>3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Workforce Development Guide (HIC-Workforce) 	<p>June 17, 2019</p>
<p>4. Increase healthcare industry readiness through improved cybersecurity awareness and education</p>	<ul style="list-style-type: none"> • HICP, HIC Workforce, HIC-MISO, JSP, HIC-SCRiM • HSCC Multimedia Promotions for National Cyber Security Awareness Month (blogs, podcast, webinars) • FDA Patient Engagement Advisory Committee 	<p>2019 October 2019 September 10, 2019</p>
<p>5. Identify mechanisms to protect R&D efforts and intellectual property from attacks and exposure</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Intellectual Property Protection Guide 	<p>January 2020</p>
<p>6. Improve information sharing of industry threats, risks, and mitigations</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Matrix of Information Sharing Organizations (HIC-MISO) 	<p>September 9, 2019</p>

HSCC JOINT CYBERSECURITY WORKING GROUP

2019 Recommendations and Coordination

Policy

- CWG letters to HHS in 2018 (Oct. 26 -OIG and August 28-CMS) and 2019 (December 31) calling for Stark rule waiver to allow cyber/technology assistance moving toward likely adoption by HHS
- June 24 Comment Letter re ONC Proposed Rule on Information Blocking
- National Cyber Security Awareness Month (October) – Series of Weekly Blogs and Podcast

Coordination

- 132 Task Group meetings and calls, 34 weekly SCC/GCC leadership calls over first quarters
- Two cross-sector webinars with Commercial Facilities SCC, and Hurricane Maria Lessons- learned with Electricity and Communications SCC's
- 405(d) Task Group Presented HICP and 405(d) mission at 75+ town hall meetings, external conferences, webinars, and other stakeholder gatherings; launched @Ask405d social media handle across Facebook, Instagram, and Twitter
- 14 HSCC CWG-featured speaking engagements around the country; 4 more scheduled in Q4
- Two semi-annual All-Hands In-Person JCWG meetings and Table-Top Incident Response Exercises in October (Austin) and April (San Diego), ~220 attendees

HEALTH SECTOR COORDINATING COUNCIL

Joint Cybersecurity Working Group

Greg Garcia

Executive Director

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<https://HealthSectorCouncil.org>