



Healthcare & Public Health
Sector Coordinating Councils

PUBLIC PRIVATE PARTNERSHIP

HSCC Cybersecurity Working Group

2021 Annual Report

Chairman's Farewell

Looking Back – and Forward



Terry Rice
Industry Chair
HSCC Cybersecurity
Working Group

Last month Theresa Meadows and I concluded our terms as Vice Chair and Chair, respectively, of the Health Sector Coordinating Council's Cybersecurity Working Group. It is with our pride and congratulations that the Council is now in the very capable hands of your new leadership, elected on January 4 by the Executive Committee: **Chair - Erik Decker**, Assistant Vice President and CISO, **Intermountain Healthcare**, and industry Co-Lead of the 405(d) Task Group; and **Vice Chair - Chris Tyberg**, Division Vice President, Product Security, **Abbott**, and Co-Lead of the Vulnerability Communications and Emerging Technology Task Groups.

As I look back on our tenure, we have much to be proud of. Since 2018 when we reorganized the CWG, we increased our membership from approximately 50 organizations to 313 today, plus 15 federal, state and local government agencies. We published 12 best practices documents covering a range of cybersecurity disciplines and submitted 8 policy and regulatory advisory letters to our government partners. We built a website as a resource center for our publications and those of other industry groups and government partners; traffic to the site has doubled since its launch. And finally, our output and collaborative momentum have earned recognition and legislative engagement from Congressional offices, consultative support from government agencies involved in law enforcement, intelligence, regulation and cybersecurity, and helpful spotlighting from numerous press outlets and academic institutions.

These accomplishments and those summarized in this 2021 Annual Report mean only that we are off to a good start but that, in raising expectations, we must maintain our momentum against the incessant onslaught of cyber attacks and threats that jeopardize the delivery of care and the services and assets that support it.

What should that momentum be directed at? I leave you and the new leadership with observations and recommendations for our next chapter. On the threat landscape, we see:

- Sustained volume of threat and impact of cyber-attacks against the sector, with ransomware unrelenting;
- Insufficient visibility on critical suppliers and their cyber risk and preparedness;
- Insufficiently rigorous methods for measuring patient impact from cyber events, but efforts are underway;
- Continued concern about attenuating security in legacy medical devices, and
- Shortage of skilled cybersecurity professionals available to the sector, and healthcare clinicians informed and responsible about cybersecurity.

In addition to needing to address each of those threats head-on, we also need to enhance the effectiveness of our institutional partnerships and outreach. For example:

- Despite the sector's development and publication of 12 (going on 16) healthcare cybersecurity resources, both industry and government partners must invest programmatically in mechanisms to drive community awareness and implementation of these practices, and measure sector-wide uptake and improvement
- Cyber threat sharing and analysis between industry and government, as well as coordinated incident response, show great opportunity for improvement
- We can better harness joint analysis and mitigation programs between industry and government, and particularly between government partners that bridge healthcare and cybersecurity, in order to better understand the threats, and prepare for them with coordinated resource commitment and leadership roles.

I look forward to staying involved in the work of the HSCC, supporting the leadership as we go, and watch the progress unfold. Thanks to all of you who have committed your time and thought leadership to this mission. But, as I have said in previous reports, we are never done, only better.

HEALTHCARE SECTOR COORDINATING COUNCIL CYBERSECURITY WORKING GROUP

Membership and Governance

CWGW Membership by the Numbers

Since January 2021

- Net increase of 8, from 276 to 284 voting organizational members
- 29 non-voting Advisor companies (down from 44, cut non-participating Advisors)
- Industry association members increase from 40 to 44
- Government organizations include 9 federal agencies, 2 state agencies, 2 city agencies, and 2 Canadian
- Total representing personnel: 653

2021 Subsector Distribution

- Direct Patient Care: **38.8%**
- Health Information Technology: **10.8%**
- Health Plans and Payers: **4.5%**
- Mass fatality and Management Services: **0**
- Medical Materials: **11%**
- Laboratories, Blood, Pharmaceuticals: **5.7%**
- Public Health: **4%**
- Cross-sector: **6.2%**
- Government (Fed, State, County, Local): **11.6%**
- Advisors: **7.4%**

2021 Activity Metrics

- ~320 meetings among 11 CWG Task Groups
- 46 SCC/GCC Weekly Joint Cyber Working Group Leadership Coordinating Calls
- 11 CWG-Developed Best Practices Documents Published Since 2019; 5 more in Q1 2022
- Six International Healthcare Cybersecurity Webinar Briefings
- Two All-Hands Membership Meetings – April 19-23 (2 hrs per day); November 3 (9am-5pm)

2021 Footprint

Webpage Views 2018 vs. 2019 vs. 2020 vs. 2021

- Total Page Views
 - 2021: 41,446 / 2020: 19,427 / 2019: 34,903 / 2018: 5,817
 - **113% Increase**
- Unique Page Views
 - 2021: 37,042 / 2020: 17,788 / 2019: 31,028 / 2018: 4,365
 - **108% Increase**

Social Media Followers

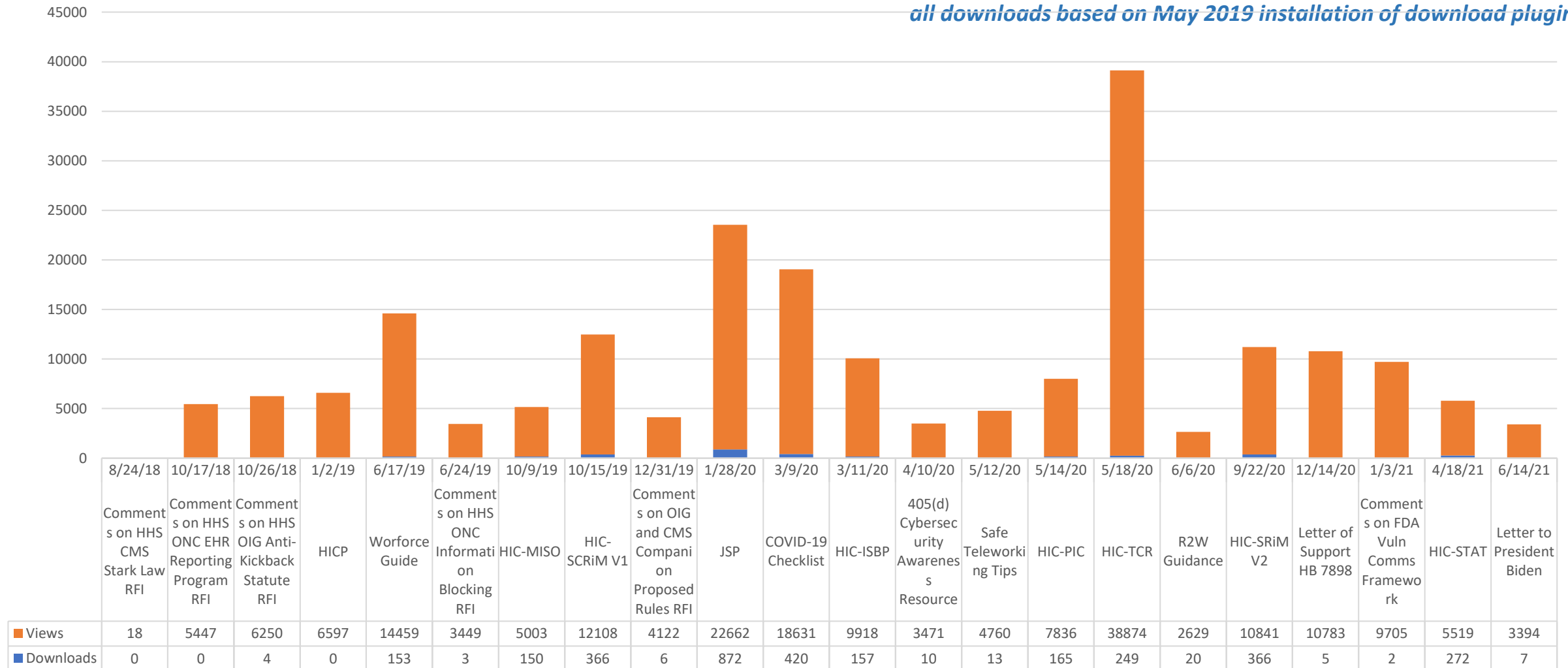
- LinkedIn: 386
- Twitter: 163
 - Social Media Accounts were created in October 2018.

Press Mentions

- 12 Press Mentions in 2021
 - 1 Press Mentions per month on average.

View and Download Statistics of HSCC Recommendations

*all downloads based on May 2019 installation of download plugin**



2021 Executive Committee



CHAIR: Terence (Terry) Rice
Vice President, Information
Risk Management and
CISO, Merck



VICE CHAIR: Theresa Meadows,
SVP & CIO, Cook Children's
Healthcare System



Erik Decker, AVP &
CISO, Intermountain
Healthcare



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



Marilyn Zigmund Luke, Vice
President, Special Projects
America's Health Insurance
Plans



Michael McNeil,
Senior Vice President,
Global CISO, McKesson



Greg Barnes, CISO
Amgen



Sri Bharadwaj, Vice
President, Digital
Innovation,
Franciscan Health



Denise Anderson,
President, Health-ISAC



Mark Jarrett, Chief Quality
Officer, Senior Vice President &
Associate Chief Medical Officer,
Northwell Health

2021 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
Office of the Assistant Secretary for Preparedness & Response
U.S. Department of Health and Human Services**

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

HSCC CYBERSECURITY WORKING GROUP

2019-2021 Guidance Publications

SEE: <https://healthsectorcouncil.org/hsc-recommendations/>

- **June 2021** [Letter to President Biden on Healthcare Cybersecurity Strategy](#)
- **April 2021** [Health Industry Cybersecurity – Securing Telehealth and Telemedicine](#)
- **September 2020** [Health Industry Cybersecurity Supply Chain Risk Management](#)
- **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 \(HICP\)](#)

Task Group Status

- **405(d) – HEALTH INDUSTRY CYBERSECURITY PRACTICES**
 - Completing a Cybersecurity Enterprise Risk Management Guide; Completing update on 2019 Health Industry Cybersecurity Practices; Updating Tactical Crisis Response playbook; ongoing development of collateral material for sector use
- **FUTURE GAZING**
 - Finalizing White Paper on Artificial Intelligence – Publication Q1 2022
- **HEALTH TECHNOLOGY RISK ANALYSIS**
 - Finalizing White Paper on Artificial Intelligence Cybersecurity – Publication Q1 2022
- **IP DATA PROTECTION**
 - Published Health Industry Cybersecurity Protection of Innovation Capital Guide May 2020; to disband after HIC-PIC marketing initiatives
- **INTERNATIONAL**
 - Hosting webinars on health-cyber international coordination
- **LEGACY MEDICAL DEVICES**
 - Ongoing – Publication expected Q2 2022
- **MODEL CONTRACTS**
 - Final draft under review – Publication expected Q1 2022
- **VULNERABILITY COMMUNICATIONS**
 - Final draft under review - Publication Q1 2022
- **POLICY**
 - June 9 letter to President Biden; Activates as needed for policy proposals and response;
- **RISK ASSESSMENT**
 - Finalized NIST Cyber Framework Implementation guide; under review by HHS for co-branding
- **SUPPLY CHAIN**
 - Published HIC-SCRiM v2 on September 22; Initiating survey on critical supplier risk management
- **TELEMEDICINE**
 - Published in April “Health Industry Cybersecurity – Securing Telehealth and Telemedicine (HIC-STAT)”;
- **WORKFORCE DEVELOPMENT**
 - Preparing series of cybersecurity training videos for clinicians and healthcare students; Reviewing potential production companies for cost and outside funding opportunities

Publications on Deck

- **Medical Device Vulnerability Communications to Patients Guide - Q1 2022**
- **Medical Device Model Cybersecurity Contract Language –Q1 2022**
- **Health Industry NIST Cybersecurity Framework Implementation Guide – Q2 2022**
- **Legacy Medical Device Cybersecurity Management Guide – Q2 2022**
- **White Paper on Artificial Intelligence Applications and Cyber Risks in Healthcare – Q1 2022**
- **Guidance on Cybersecurity Enterprise Risk Management - 2022**

HEALTH SECTOR COORDINATING COUNCIL

Joint Cybersecurity Working Group

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