HSCC Joint Cybersecurity Working Group
2019 Annual Report

January 2020
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*
- *611% Increase*

**Social Media Followers** (since account opening October 2018)
- LinkedIn: 150
- Twitter: 75

**Press Mentions**
- 2 Press Mentions per month on average.
<table>
<thead>
<tr>
<th>NAME</th>
<th>AFFILIATION</th>
<th>ROLE</th>
<th>SUBSECTOR</th>
<th>END OF TERM</th>
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</thead>
<tbody>
<tr>
<td>CHAIR: TERRY RICE</td>
<td>MERCK &amp; CO.</td>
<td>CISO</td>
<td>PHARMA, LABS &amp; BLOOD</td>
<td>DECEMBER 2020</td>
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<tr>
<td>VICE CHAIR: THERESA MEADOWS</td>
<td>COOK CHILDREN’S HEALTH CARE SYSTEM</td>
<td>CIO</td>
<td>DIRECT PATIENT CARE</td>
<td>DECEMBER 2020</td>
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<td>ERIK DECKER</td>
<td>UNIVERSITY OF CHICAGO MEDICAL CENTER</td>
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<td>TOM LEARY</td>
<td>HEALTHCARE INFORMATION &amp; MANAGEMENT SYSTEMS SOCIETY (HIMSS)</td>
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### DIRECT PATIENT CARE

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### HEALTH INFORMATION TECHNOLOGY

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### HEALTH PLANS AND PAYERS

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### MEDICAL MATERIALS

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<tr>
<td>GREG BARNES</td>
<td>AMGEN</td>
<td>CHIEF INFORMATION SECURITY OFFICER</td>
<td>DECEMBER 2021</td>
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<tr>
<td>SRI BHARADWAJ</td>
<td>UC IRVINE HEALTH</td>
<td>CHIEF INFORMATION SECURITY OFFICER</td>
<td>DECEMBER 2020</td>
</tr>
<tr>
<td>DENISE ANDERSON</td>
<td>HEALTH ISAC</td>
<td>PRESIDENT</td>
<td>DECEMBER 2021</td>
</tr>
<tr>
<td>MARK JARRETT</td>
<td>NORTHWELL HEALTH</td>
<td>CHIEF QUALITY OFFICER, SENIOR VICE PRESIDENT &amp; DEPUTY CHIEF MEDICAL OFFICER</td>
<td>DECEMBER 2019</td>
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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
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
<table>
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<tr>
<th>RISK ASSESSMENT</th>
<th>SUPPLY CHAIN SECURITY</th>
<th>POLICY AND REGULATION</th>
<th>INFORMATION SHARING</th>
<th>EXERCISES</th>
<th>INCIDENT RESPONSE</th>
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<td>TELEMEDICINE SECURITY</td>
<td>WORKFORCE</td>
<td>FUTURE GAZING</td>
<td>INTERNATIONAL</td>
<td>REGULATORY HARMONIZATION</td>
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<td>LEGACY DEVICE MANAGEMENT &amp; REPLACEMENT</td>
<td>STANDARDIZING VULNERABILITY COMMUNICATIONS</td>
<td>TECHNOLOGY RISK ANALYSIS</td>
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| 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://h-isac.org/health-industry-cybersecurity-practices/

• Coming: January 2020 Publication of *Health Industry Cybersecurity Protection of Innovation Capital*
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<tr>
<th>HCIC IMPERATIVES</th>
<th>ANSWERED: HSCC JOINT CYBERSECURITY WORKING GROUP DELIVERABLES</th>
<th>DATE DELIVERED</th>
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</table>
| 1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity | • 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                                                                                                                                   | December 28, 2018  
October 9, 2019 |
| 2. Increase the security and resilience of medical devices and health IT         | • Medical Device and Health I.T. Joint Security Plan (JSP)  
• Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRM)                                                                                                                                                                               | January 28, 2019  
October 15, 2019 |
| 3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities | • Health Industry Cybersecurity Workforce Development Guide (HIC-Workforce)                                                                                                                                                                                                                                             | June 17, 2019    |
| 4. Increase healthcare industry readiness through improved cybersecurity awareness and education | • HICP, HIC Workforce, HIC-MISO, JSP, HIC-SCRM  
• HSCC Multimedia Promotions for National Cyber Security Awareness Month (blogs, podcast, webinars)  
• FDA Patient Engagement Advisory Committee                                                                                                                                                                                                                     | 2019  
October 2019  
September 10, 2019 |
| 5. Identify mechanisms to protect R&D efforts and intellectual property from attacks and exposure | • Health Industry Cybersecurity Intellectual Property Protection Guide                                                                                                                                                                                                                                            | January 2020     |
| 6. Improve information sharing of industry threats, risks, and mitigations      | • Health Industry Cybersecurity Matrix of Information Sharing Organizations (HIC-MISO)                                                                                                                                                                                                                                   | September 9, 2019 |
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-earned 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