

# Calendar No. 527

117TH CONGRESS  
2D SESSION

# S. 3904

[Report No. 117-177]

To enhance the cybersecurity of the Healthcare and Public Health Sector.

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## IN THE SENATE OF THE UNITED STATES

MARCH 23, 2022

Ms. ROSEN (for herself, Mr. CASSIDY, Ms. HASSAN, Mr. OSBOURNE, Mr. TILLIS, Mrs. FEINSTEIN, and Mr. KING) introduced the following bill; which was read twice and referred to the Committee on Homeland Security and Governmental Affairs

OCTOBER 18, 2022

Reported under authority of the order of the Senate of October 14, 2022, by  
Mr. PETERS, with an amendment and an amendment to the title  
[Strike out all after the enacting clause and insert the part printed in italic]

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# A BILL

To enhance the cybersecurity of the Healthcare and Public  
Health Sector.

- 1       *Be it enacted by the Senate and House of Representa-*
- 2       *tives of the United States of America in Congress assembled,*
- 3       **SECTION 1. SHORT TITLE.**
- 4       *This Act may be cited as the “Healthcare Cybersecur-*
- 5       *ity Act of 2022”.*

1   **SEC. 2. DEFINITIONS.**

2       In this Act—

3           (1) the term “Agency” means the Cybersecurity  
4       and Infrastructure Security Agency;

5           (2) the term “Cybersecurity State Coordinator”  
6       means a Cybersecurity State Coordinator appointed  
7       under section 2217(a) of the Homeland Security Act  
8       of 2002 (6 U.S.C. 665e(a));

9           (3) the term “Department” means the Depart-  
10       ment of Health and Human Services;

11           (4) the term “Director” means the Director of  
12       the Agency;

13           (5) the term “Healthcare and Public Health  
14       Sector” means the Healthcare and Public Health  
15       sector, as identified in Presidential Policy Directive  
16       21 (February 12, 2013; relating to critical infra-  
17       structure security and resilience);

18           (6) the term “Information Sharing and Anal-  
19       ysis Organizations” has the meaning given that term  
20       in section 2222 of the Homeland Security Act of  
21       2002 (6 U.S.C. 671); and

22           (7) the term “Secretary” means the Secretary  
23       of Health and Human Services.

24   **SEC. 3. FINDINGS.**

25       Congress finds the following:

1                   (1) Healthcare and Public Health Sector assets  
2       are increasingly the targets of malicious  
3       cyberattacks, which result not only in data breaches,  
4       but also increased healthcare delivery costs, and can  
5       ultimately affect patient health outcomes.

6                   (2) Data reported to the Department shows  
7       that almost every month in 2020, more than  
8       1,000,000 people were affected by data breaches at  
9       healthcare organizations. Cyberattacks on healthcare  
10      facilities rose 55 percent in 2020, and these attacks  
11      also resulted in a 16 percent increase in the average  
12      cost of recovering a patient record in 2020, as com-  
13      pared to 2019.

14                  (3) According to data from the Office for Civil  
15      Rights of the Department, health information  
16      breaches have increased since 2016, and in 2020  
17      alone, the Department reported 663 breaches on  
18      covered entities, as defined under the Health Insur-  
19      ance Portability and Accountability Act of 1996  
20      (Public Law 104-191), affecting more than 500 peo-  
21      ple, with over 33,000,000 total people affected by  
22      health information breaches.

23   **SEC. 4. AGENCY COLLABORATION WITH THE DEPARTMENT.**  
24    (a) IN GENERAL.—The Agency shall collaborate with  
25   the Department, including by entering into an agreement,

1 as appropriate, to improve cybersecurity in the Healthcare  
2 and Public Health Sector.

3       **(b) ASSISTANCE.—**

4           **(1) IN GENERAL.**—The Agency shall coordinate  
5 with and make resources available to Information  
6 Sharing and Analysis Organizations, information  
7 sharing and analysis centers, and non-Federal enti-  
8 ties that are receiving information shared through  
9 programs managed by the Department.

10          **(2) SCOPE.**—The coordination under paragraph  
11        (b) shall include—

12              (A) developing products specific to the  
13        needs of Healthcare and Public Health Sector  
14        entities; and

15              (B) sharing information relating to cyber  
16        threat indicators and appropriate defensive  
17        measures.

18        **SEC. 5. TRAINING FOR HEALTHCARE EXPERTS.**

19          The Cyber Security Advisors and Cybersecurity State  
20 Coordinators of the Agency shall, in coordination, as ap-  
21 propriate, with private sector healthcare experts, provide  
22 training to Healthcare and Public Health Sector asset  
23 owners and operators on—

1                   (1) cybersecurity risks to the Healthcare and  
2                   Public Health Sector and assets within the sector;  
3                   and

4                   (2) ways to mitigate the risks to information  
5                   systems in the Healthcare and Public Health Sector.

6 **SEC. 6. SECTOR-SPECIFIC STUDY AND REPORT.**

7                   (a) IN GENERAL.—Not later than 1 year after the  
8                   date of enactment of this Act, the Director, in consultation  
9                   with the Secretary, shall conduct a study and issue a re-  
10                  port, which shall include the following elements:

11                   (1) An analysis of how identified cybersecurity  
12                  risks specifically impact Healthcare and Public  
13                  Health Sector assets, including the impact on rural  
14                  and small and medium-sized Healthcare and Public  
15                  Health Sector assets.

16                   (2) An evaluation of the challenges Healthcare  
17                  and Public Health Sector assets face in—

18                   (A) securing—

19                   (i) updated information systems  
20                  owned, leased, or relied upon by  
21                  Healthcare and Public Health Sector as-  
22                  sets;

23                   (ii) medical devices or equipment  
24                  owned, leased, or relied upon by  
25                  Healthcare and Public Health Sector as-

1 sets, which shall include an analysis of the  
2 threat landscape and cybersecurity  
3 vulnerabilities of such medical devices or  
4 equipment; and

5 (iii) sensitive patient health information  
6 and electronic health records;

7 (B) implementing cybersecurity protocols;  
8 and

9 (C) responding to data breaches or cybersecurity attacks, including the impact on patient access to care, quality of patient care, timeliness of health care delivery, and health outcomes.

10 (3) An evaluation of best practices for the deployment of trained Cyber Security Advisors and Cybersecurity State Coordinators of the Agency into Healthcare and Public Health Sector assets before, during, and after data breaches or cybersecurity attacks.

11 (4) An assessment of relevant Healthcare and Public Health Sector cybersecurity workforce shortages, including—

12 (A) training, recruitment, and retention issues; and

1                             (B) recommendations for how to address  
2                             these shortages and issues, particularly at rural  
3                             and small and medium-sized Healthcare and  
4                             Public Health Sector assets.

5                             (5) An identification of cybersecurity challenges  
6                             related to or brought on by the public health emer-  
7                             gency declared by the Secretary under section 319  
8                             of the Public Health Service Act (42 U.S.C. 247d)  
9                             on January 27, 2020, with respect to COVID-19.

10                            (6) An evaluation of the most accessible and  
11                             timely ways for the Agency and the Department to  
12                             communicate and deploy cybersecurity recommenda-  
13                             tions and tools to Healthcare and Public Health Sec-  
14                             tor assets.

15                            (b) REPORT TRANSMITTAL.—Not later than 60 days  
16                             after completing the study and report required under sub-  
17                             section (a), the Director shall present the completed report  
18                             to the Secretary, which the Secretary may, in consulta-  
19                             tion with the Director, consult when updating the Healthcare  
20                             and Public Health Sector Specific Plan of the Secretary.

21                            (c) CONGRESSIONAL BRIEFING.—Not later than 120  
22                             days after the date of enactment of this Act, the Director,  
23                             in consultation with the Secretary, as appropriate, shall  
24                             provide a briefing on the status of the study and report  
25                             required under subsection (a) to—

1                   (1) the Committee on Health, Education,  
2 Labor, and Pensions and the Committee on Home-  
3 land Security and Governmental Affairs of the Sen-  
4 ate; and

5                   (2) the Committee on Energy and Commerce  
6 and the Committee on Homeland Security of the  
7 House of Representatives.

8 **SECTION 1. SHORT TITLE.**

9                 *This Act may be cited as the “Healthcare Cybersecu-*  
10 *rity Act of 2022”.*

11 **SEC. 2. DEFINITIONS.**

12                 *In this Act—*

13                   (1) the term “Agency” means the Cybersecurity  
14 and Infrastructure Security Agency;

15                   (2) the term “Cybersecurity State Coordinator”  
16 means a Cybersecurity State Coordinator appointed  
17 under section 2217(a) of the Homeland Security Act  
18 of 2002 (6 U.S.C. 665c(a));

19                   (3) the term “Department” means the Depart-  
20 ment of Health and Human Services;

21                   (4) the term “Director” means the Director of the  
22 Agency;

23                   (5) the term “Healthcare and Public Health Sec-  
24 tor” means the Healthcare and Public Health sector,  
25 as identified in Presidential Policy Directive 21 (Feb-

1       *ruary 12, 2013; relating to critical infrastructure se-*  
2       *curity and resilience);*

3           *(6) the term “Information Sharing and Analysis*  
4       *Organizations” has the meaning given that term in*  
5       *section 2222 of the Homeland Security Act of 2002 (6*  
6       *U.S.C. 671); and*

7           *(7) the term “Secretary” means the Secretary of*  
8       *Health and Human Services.*

9       **SEC. 3. FINDINGS.**

10      *Congress finds the following:*

11           *(1) Healthcare and Public Health Sector assets*  
12       *are increasingly the targets of malicious cyberattacks,*  
13       *which result not only in data breaches, but also in-*  
14       *creased healthcare delivery costs, and can ultimately*  
15       *affect patient health outcomes.*

16           *(2) Data reported to the Department shows that*  
17       *almost every month in 2020, more than 1,000,000*  
18       *people were affected by data breaches at healthcare or-*  
19       *ganizations. Cyberattacks on healthcare facilities rose*  
20       *55 percent in 2020, and these attacks also resulted in*  
21       *a 16 percent increase in the average cost of recovering*  
22       *a patient record in 2020, as compared to 2019.*

23           *(3) According to data from the Office for Civil*  
24       *Rights of the Department, health information*  
25       *breaches have increased since 2016, and in 2020*

1       *alone, the Department reported 663 breaches on cov-*  
2       *ered entities, as defined under the Health Insurance*  
3       *Portability and Accountability Act of 1996 (Public*  
4       *Law 104–191), affecting more than 500 people, with*  
5       *over 33,000,000 total people affected by health infor-*  
6       *mation breaches.*

7       **SEC. 4. AGENCY COORDINATION WITH THE DEPARTMENT.**

8       (a) *IN GENERAL.—The Agency and the Department*  
9       *shall coordinate, including by entering into an agreement,*  
10      *as appropriate, to improve cybersecurity in the Healthcare*  
11      *and Public Health Sector.*

12      (b) *ASSISTANCE.—*

13       (1) *IN GENERAL.—The Agency shall coordinate*  
14       *with and make resources available to Information*  
15       *Sharing and Analysis Organizations, information*  
16       *sharing and analysis centers, and non-Federal enti-*  
17       *ties that are receiving information shared through*  
18       *programs managed by the Department.*

19       (2) *SCOPE.—The coordination under paragraph*

20       (1) *shall include—*

21           (A) *developing products specific to the needs*  
22           *of Healthcare and Public Health Sector entities;*  
23           *and*

1                   (B) sharing information relating to cyber  
2                   threat indicators and appropriate defensive  
3                   measures.

4 **SEC. 5. TRAINING FOR HEALTHCARE EXPERTS.**

5                 *The Secretary, in coordination with the Cyber Secu-*  
6 *rity Advisors and Cybersecurity State Coordinators of the*  
7 *Agency and private sector healthcare experts, as appro-*  
8 *priate, shall provide training to Healthcare and Public*  
9 *Health Sector asset owners and operators on—*

10                 (1) *cybersecurity risks to the Healthcare and*  
11 *Public Health Sector and assets within the sector; and*  
12                 (2) *ways to mitigate the risks to information*  
13 *systems in the Healthcare and Public Health Sector.*

14 **SEC. 6. SECTOR-SPECIFIC PLAN.**

15                 (a) *IN GENERAL.—Not later than 1 year after the date*  
16 *of enactment of this Act, the Secretary, in coordination with*  
17 *the Director, shall update the Healthcare and Public Health*  
18 *Sector Specific Plan (referred to in this section as the*  
19 *“Plan”), which shall include the following elements:*

20                 (1) *An analysis of how identified cybersecurity*  
21 *risks specifically impact Healthcare and Public*  
22 *Health Sector assets, including the impact on rural*  
23 *and small and medium-sized Healthcare and Public*  
24 *Health Sector assets.*

1                   (2) An evaluation of the challenges Healthcare  
2 and Public Health Sector assets face in—

3                   (A) securing—

4                         (i) updated information systems  
5 owned, leased, or relied upon by Healthcare  
6 and Public Health Sector assets;

7                         (ii) medical devices or equipment  
8 owned, leased, or relied upon by Healthcare  
9 and Public Health Sector assets, which shall  
10 include an analysis of the threat landscape  
11 and cybersecurity vulnerabilities of such  
12 medical devices or equipment; and

13                         (iii) sensitive patient health informa-  
14 tion and electronic health records;

15                   (B) implementing cybersecurity protocols;

16                   and

17                   (C) responding to data breaches or cyberse-  
18 curity attacks, including the impact on patient  
19 access to care, quality of patient care, timeliness  
20 of health care delivery, and health outcomes.

21                   (3) An evaluation of best practices for the de-  
22 ployment of trained Cyber Security Advisors and Cy-  
23 bersecurity State Coordinators of the Agency into  
24 Healthcare and Public Health Sector assets before,

1       *during, and after data breaches or cybersecurity at-*  
2       *tacks.*

3           *(4) An assessment of relevant Healthcare and*  
4       *Public Health Sector cybersecurity workforce short-*  
5       *ages, including—*

6              *(A) training, recruitment, and retention*  
7       *issues; and*

8              *(B) recommendations for how to address*  
9       *these shortages and issues, particularly at rural*  
10      *and small and medium-sized Healthcare and*  
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15       *the Public Health Service Act (42 U.S.C. 247d) on*  
16       *January 27, 2020, with respect to COVID–19.*

17           *(6) An evaluation of the most accessible and*  
18       *timely ways for the Agency and the Department to*  
19       *communicate and deploy cybersecurity recommenda-*  
20       *tions and tools to Healthcare and Public Health Sec-*  
21       *tor assets.*

22           *(b) CONGRESSIONAL BRIEFING.—Not later than 120*  
23       *days after the date of enactment of this Act, the Secretary,*  
24       *in consultation with the Director, shall provide a briefing*  
25       *on the updating of the Plan under subsection (a) to—*

1                   *(1) the Committee on Health, Education, Labor,*  
2                   *and Pensions and the Committee on Homeland Secu-*  
3                   *rity and Governmental Affairs of the Senate; and*  
4                   *(2) the Committee on Energy and Commerce and*  
5                   *the Committee on Homeland Security of the House of*  
6                   *Representatives.*

Amend the title so as to read: “A bill to enhance the cybersecurity of the Healthcare and Public Health Sector and update the Healthcare and Public Health Sector Specific Plan.”.



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[Report No. 117-177]

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**A BILL**

To enhance the cybersecurity of the Healthcare and  
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