

HR 4061

Cybersecurity Enhancement Act of 2010

Congress: 111 (2009–2011, Ended)

Chamber: House

Policy Area: Science, Technology, Communications

Introduced: Nov 7, 2009

Current Status: Received in the Senate and Read twice and referred to the Committee on Commerce, Science, and Transp

Latest Action: Received in the Senate and Read twice and referred to the Committee on Commerce, Science, and Transportation. (Feb 9, 2010)

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Sponsor

Name: Rep. Lipinski, Daniel [D-IL-3]

Party: Democratic • **State:** IL • **Chamber:** House

Cosponsors (9 total)

Cosponsor	Party / State	Role	Date Joined
Rep. Ehlers, Vernon J. [R-MI-3]	R · MI		Nov 7, 2009
Rep. Gordon, Bart [D-TN-6]	D · TN		Nov 7, 2009
Rep. Hall, Ralph M. [R-TX-4]	R · TX		Nov 7, 2009
Rep. Johnson, Eddie Bernice [D-TX-30]	D · TX		Nov 7, 2009
Rep. Lujan, Ben Ray [D-NM-3]	D · NM		Nov 7, 2009
Rep. McCaul, Michael T. [R-TX-10]	R · TX		Nov 7, 2009
Rep. Rothman, Steven R. [D-NJ-9]	D · NJ		Nov 7, 2009
Rep. Smith, Adrian [R-NE-3]	R · NE		Nov 7, 2009
Rep. Wu, David [D-OR-1]	D · OR		Nov 7, 2009

Committee Activity

Committee	Chamber	Activity	Date
Commerce, Science, and Transportation Committee	Senate	Referred To	Feb 9, 2010
Homeland Security Committee	House	Bills of Interest - Exchange of Letters	Sep 22, 2010
Science, Space, and Technology Committee	House	Reported By	Jan 27, 2010

Subjects & Policy Tags

Policy Area:

Science, Technology, Communications

Related Bills

Bill	Relationship	Last Action
111 HRES 1051	Procedurally related	Feb 3, 2010: Motion to reconsider laid on the table Agreed to without objection.

Cybersecurity Enhancement Act of 2010 - **Title I: Research and Development** - (Sec. 103) Directs specified federal agencies participating in the National High-Performance Computing Program to: (1) transmit to Congress a cybersecurity strategic research and development plan and triennial updates; and (2) develop and annually update an implementation roadmap for such plan. Specifies the plan's contents, including that it shall: (1) specify near-term, mid-term, and long-term Program research objectives; (2) describe how the Program will establish a national research infrastructure to create next generation networking and information technology systems; (3) outline how the United States can work with our international partners on cybersecurity research and development (R&D) issues where appropriate; (4) describe how the Program will foster a more diverse workforce in this area; and (5) describe how the Program will strengthen cybersecurity education and training programs to ensure an adequate, well-trained workforce.

Instructs the participating agencies, in developing and updating the strategic plan, to solicit recommendations and advice from the advisory committee on high-performance computing and a wide range of specified stakeholders, including from industry, academia, and National Laboratories.

(Sec. 104) Provides for the award of computer and network security research grants by the National Science Foundation (NSF) in the research areas of social and behavioral factors, including human-computer interactions, and identity management, as well as in the detection, investigation, and prosecution of cyber-crimes involving organized crime, intellectual property, and crimes against children.

(Sec. 105) Authorizes appropriations for FY2010-FY2014 for such grants.

Requires applications for the establishment of Computer and Network Security Research Centers to include a description of how such Centers will partner with government laboratories, for-profit entities, other institutions of higher education, or nonprofit research institutions. Authorizes appropriations for FY2010-FY2014.

Authorizes appropriations to NSF for FY2010-FY2014 for: (1) computer and network security capacity building grants; (2) grants under the Scientific and Advanced Technology Act for the national advanced scientific and technical education program and national centers of scientific and technical education; and (3) grants for graduate traineeships programs in computer and network security research.

Authorizes the use of computer and network security capacity building grants for activities that revise curricula on the principles and techniques of designing secure software in order to better prepare undergraduate and master's degree students for careers in computer and network security.

Requires the NSF Director to carry out a program of awarding fellowships to encourage young scientists and engineers to conduct postdoctoral research in the fields of cybersecurity and information assurance, including the research areas under which computer and network security research grants are awarded. Authorizes appropriations for FY2010-FY2014.

Prohibits the use of any of the funds appropriated under this section for congressional earmarks.

Authorizes the use of computer and network security capacity building grants for activities that establish or enhance collaboration in computer and network security between community colleges, universities, and Manufacturing Extension Partnership Centers.

(Sec. 106) Requires the NSF Director to carry out a Scholarship for Service program to recruit and train the next

generation of federal cybersecurity professionals and to increase the capacity of the higher education system to produce an information technology workforce with the skills necessary to enhance the security of the nation's communications and information infrastructure.

Requires the program to: (1) provide scholarships for tuition, fees, and a stipend for up to two years to students pursuing a bachelor's or master's degree and up to three years to students pursuing a doctoral degree in a cybersecurity field upon condition that a scholarship recipient, upon the completion of the degree, serves as cybersecurity professional within the federal workforce (or serves in another specified capacity if such federal employment is not offered) for a specified period of time; (2) provide scholarship recipients with summer internships or other temporary appointments in the federal information technology workforce, or at such Director's discretion, with appropriate private sector entities; and (3) increase the capacity of institutions of higher education throughout the United States to produce highly qualified cybersecurity professionals, through grants that support such activities as faculty professional development, institutional partnerships, development of cybersecurity-related courses and curricula, and outreach to secondary schools and two-year institutions to increase interest and recruitment of students into cybersecurity-related fields.

Authorizes appropriations to NSF for FY2010-FY2014 to carry out such program.

(Sec. 107) Directs the President to transmit a report to Congress addressing the cybersecurity workforce needs of the federal government, including: (1) an examination of the effectiveness of the National Centers of Academic Excellence in Information Assurance Education, Centers of Academic Excellence in Research, and Federal Cyber Scholarship for Service programs; and (2) an analysis of the capacity of the agency workforce to manage contractors who are performing cybersecurity work on behalf of the federal government.

(Sec. 108) Requires the Office of Science and Technology Policy (OSTP) Director to convene a cybersecurity university-industry task force to explore mechanisms for carrying out collaborative R&D activities through a consortium or other appropriate entity.

(Sec. 109) Requires (current law permits) the National Institute of Standards and Technology (NIST) Director to establish priorities for the development of checklists of settings and options that minimize security risks associated with computer systems that are, or are likely to become, widely used within the federal government. Requires: (1) development or identification and revision or adaptation as necessary, of checklists, configuration profiles, and deployment recommendations for products and protocols that minimize such risks; and (2) development of automated security specifications respecting checklist content and associated security related data. Instructs the NIST Director to ensure that federal agencies are informed of the availability of any products developed or identified under the National Checklist Program for any information systems, including the Security Content Automation Protocol.

(Sec. 110) Requires NIST to conduct intramural security research activities under its computing standards program.

(Sec. 111) Requires the OSTP Director to contract with the National Academy of Sciences (NAS) to complete a study describing the role of community colleges in cybersecurity education and to identify exemplary practices and partnerships related to cybersecurity education between such colleges and four-year educational institutions.

(Sec. 112) Requires the NSF Director, in coordination with other federal agencies participating in the Program, to establish a National Center of Excellence for Cybersecurity, to be awarded on a merit-reviewed, competitive basis.

Specifies the activities the National Center shall support, including activities for: (1) interaction and collaboration with

Computer and Network Security Research Centers to foster the exchange of technical information and best practices; (2) performance of research in support of the development of technologies for testing hardware and software products to validate operational readiness and certify stated security levels; (3) coordination of cybersecurity education and training opportunities nationally; (4) enhancement of technology transfer and commercialization that promote cybersecurity innovation; and (5) performance of research on cybersecurity social and behavioral factors.

(Sec. 113) Directs the Comptroller General to transmit to Congress a report examining key weaknesses within the current cybersecurity infrastructure, along with recommendations on how to address such weaknesses.

Title II: Advancement of Cybersecurity Technical Standards - (Sec. 202) Requires the NIST Director to ensure coordination of U.S. government representation in the international development of technical standards related to cybersecurity. Requires the development and transmission of a plan to Congress to engage international standards bodies respecting the development of such standards.

(Sec. 203) Requires the NIST Director to implement a cybersecurity awareness and education program through the Manufacturing Extension Partnership program which shall include efforts to make cybersecurity technical standards and best practices usable by individuals, small to medium-sized businesses, state, local, and tribal governments, and educational institutions, including elderly populations, low-income populations, and populations in areas of planned broadband expansion or deployment. Requires a report to Congress containing a strategy for implementation of such program.

(Sec. 204) Requires the NIST Director to establish a program to support development of technical standards, metrology, testbeds, and conformance criteria with regard to identity management research and development.

(Sec. 205) Directs NIST to work with other federal, state, and private sector partners in the development of a framework that states may follow to achieve effective cybersecurity practices in a timely and cost-effective manner.

Actions Timeline

- **Feb 9, 2010:** Received in the Senate and Read twice and referred to the Committee on Commerce, Science, and Transportation.
- **Feb 4, 2010:** Considered as unfinished business. (consideration: CR H559-563)
- **Feb 4, 2010:** The House resolved into Committee of the Whole House on the state of the Union for further consideration.
- **Feb 4, 2010:** UNFINISHED BUSINESS - The Chair announced that the unfinished business was the question of adoption of amendments which had been debated earlier and on which further proceedings were postponed.
- **Feb 4, 2010:** The House rose from the Committee of the Whole House on the state of the Union to report H.R. 4061.
- **Feb 4, 2010:** The previous question was ordered pursuant to the rule. (consideration: CR H562)
- **Feb 4, 2010:** The House adopted the amendment in the nature of a substitute as agreed to by the Committee of the Whole House on the state of the Union. (text: CR 02/3/2010 H500-503)
- **Feb 4, 2010:** Passed/agreed to in House: On passage Passed by the Yeas and Nays: 422 - 5 (Roll no. 43).
- **Feb 4, 2010:** On passage Passed by the Yeas and Nays: 422 - 5 (Roll no. 43).
- **Feb 4, 2010:** Motion to reconsider laid on the table Agreed to without objection.
- **Feb 4, 2010:** The Clerk was authorized to correct section numbers, punctuation, and cross references, and to make other necessary technical and conforming corrections in the engrossment of H.R. 4061.
- **Feb 3, 2010:** Rule H. Res. 1051 passed House.
- **Feb 3, 2010:** Considered under the provisions of rule H. Res. 1051. (consideration: CR H495-524)
- **Feb 3, 2010:** Rule provides for consideration of H.R. 4061 with 1 hour of general debate. Previous question shall be considered as ordered without intervening motions except motion to recommit with or without instructions. Measure will be considered read. Specified amendments are in order. All points of order against consideration of the bill are waived except those arising under clause 9 or 10 of rule XXI.
- **Feb 3, 2010:** House resolved itself into the Committee of the Whole House on the state of the Union pursuant to H. Res. 1051 and Rule XVIII.
- **Feb 3, 2010:** The Speaker designated the Honorable Betty McCollum to act as Chairwoman of the Committee.
- **Feb 3, 2010:** GENERAL DEBATE - The Committee of the Whole proceeded with one hour of general debate on H.R. 4061.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Hastings (FL) amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Hastings (FL) amendment, the Chair put the question of adoption on the amendment and by voice vote announced that the ayes had prevailed. Mr. Hastings (FL) demanded a recorded vote and the Chair postponed further proceedings on the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Gordon amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Flake amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Flake amendment, the Chair put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Mr. Gordon demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Matheson amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Roskam amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Edwards of Maryland amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Paulsen amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Dahlkemper amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Dahlkemper amendment, the Chair

put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Ms. Dahlkemper demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.

- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Garamendi amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the McCarthy of New York amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Langevin amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Loretta Sanchez amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Cuellar amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Cuellar amendment, the Chair put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Mr. Cuellar demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Shea-Porter amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Clarke amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Bright amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Connolly amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Connolly amendment, the Chair put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Mr. Connolly demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Halvorson amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Halvorson amendment, the Chair put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Ms. Halvorson demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Kilroy amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Kilroy amendment, the Chair put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Ms. Kilroy demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Kissell amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Kissell amendment, the Chair put the question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Mr. Kissell demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Kratovil amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Lipinski amendment.
- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Owens amendment.
- **Feb 3, 2010:** POSTPONED PROCEEDINGS - At the conclusion of debate on the Owens amendment, the Chair put the

question on adoption of the amendment and by voice vote, announced that the ayes had prevailed. Mr. Owens demanded a recorded vote and the Chair postponed further proceedings on the question of adoption of the amendment until later in the legislative day.

- **Feb 3, 2010:** DEBATE - Pursuant to the provisions of H.Res. 1051, the Committee of the Whole proceeded with 10 minutes of debate on the Heinrich amendment.
- **Feb 3, 2010:** UNFINISHED BUSINESS - The Chair announced that the unfinished business was the question of adoption of amendments which had been debated earlier and on which further proceedings had been postponed.
- **Feb 3, 2010:** Mr. McGovern moved that the Committee rise.
- **Feb 3, 2010:** On motion that the Committee rise Agreed to without objection.
- **Feb 3, 2010:** Committee of the Whole House on the state of the Union rises leaving H.R. 4061 as unfinished business.
- **Feb 2, 2010:** Rules Committee Resolution H. Res. 1051 Reported to House. Rule provides for consideration of H.R. 4061 with 1 hour of general debate. Previous question shall be considered as ordered without intervening motions except motion to recommit with or without instructions. Measure will be considered read. Specified amendments are in order. All points of order against consideration of the bill are waived except those arising under clause 9 or 10 of rule XXI.
- **Jan 27, 2010:** Reported (Amended) by the Committee on Science and Technology. H. Rept. 111-405.
- **Jan 27, 2010:** Placed on the Union Calendar, Calendar No. 236.
- **Nov 18, 2009:** Committee Consideration and Mark-up Session Held.
- **Nov 18, 2009:** Ordered to be Reported (Amended) by Voice Vote.
- **Nov 7, 2009:** Introduced in House
- **Nov 7, 2009:** Referred to the House Committee on Science and Technology.