

S 4592

Quantum Computing Cybersecurity Preparedness Act

Congress: 117 (2021–2023, Ended)

Chamber: Senate

Policy Area: Government Operations and Politics

Introduced: Jul 21, 2022

Current Status: Placed on Senate Legislative Calendar under General Orders. Calendar No. 635.

Latest Action: Placed on Senate Legislative Calendar under General Orders. Calendar No. 635. (Dec 13, 2022)

Official Text: <https://www.congress.gov/bill/117th-congress/senate-bill/4592>

Sponsor

Name: Sen. Hassan, Margaret Wood [D-NH]

Party: Democratic • **State:** NH • **Chamber:** Senate

Cosponsors (5 total)

Cosponsor	Party / State	Role	Date Joined
Sen. Portman, Rob [R-OH]	R · OH		Jul 21, 2022
Sen. Rosen, Jacky [D-NV]	D · NV		Sep 14, 2022
Sen. Tillis, Thomas [R-NC]	R · NC		Sep 14, 2022
Sen. Young, Todd [R-IN]	R · IN		Nov 28, 2022
Sen. Heinrich, Martin [D-NM]	D · NM		Nov 29, 2022

Committee Activity

Committee	Chamber	Activity	Date
Homeland Security and Governmental Affairs Committee	Senate	Reported By	Dec 13, 2022

Subjects & Policy Tags

Policy Area:

Government Operations and Politics

Related Bills

Bill	Relationship	Last Action
117 HR 7535	Related bill	Dec 21, 2022: Became Public Law No: 117-260.

Quantum Computing Cybersecurity Preparedness Act

This bill addresses the migration of executive agencies information technology systems to post-quantum cryptography. Post-quantum cryptography is encryption strong enough to resist attacks from quantum computers developed in the future.

Not later than one year after the National Institutes of Standards and Technology has issued post-quantum cryptography standards, the Office of Management and Budget (OMB) shall begin to prioritize the migration of agency information technology systems to post-quantum cryptography.

Not later than one year after the date of the enactment of this bill, the OMB shall submit to Congress a report on

- a strategy to address the risk posed by the vulnerabilities of agency information technology systems to the potential capability of a quantum computer;
- the funding necessary to secure such information technology systems from the threat posed by adversarial access to quantum computers; and
- a description of federal coordination efforts to develop standards for post-quantum cryptography, including any federal Information Processing Standards.

Actions Timeline

- **Dec 13, 2022:** Committee on Homeland Security and Governmental Affairs. Reported by Senator Peters with an amendment. With written report No. 117-251.
- **Dec 13, 2022:** Placed on Senate Legislative Calendar under General Orders. Calendar No. 635.
- **Aug 3, 2022:** Committee on Homeland Security and Governmental Affairs. Ordered to be reported without amendment favorably.
- **Jul 21, 2022:** Introduced in Senate
- **Jul 21, 2022:** Read twice and referred to the Committee on Homeland Security and Governmental Affairs.