

“(1) ensuring the highest level of cybersecurity at agencies in the executive branch is the responsibility of the President, followed by the Director of the Office of Management and Budget, the Secretary of Homeland Security, and the head of each such agency;

“(2) this responsibility is to be carried out by working collaboratively within and among agencies in the executive branch, industry, and academia;

“(3) the strength of the cybersecurity of the Federal Government and the positive benefits of digital technology transformation depend on proactively addressing cybersecurity throughout the acquisition and operation of Internet of Things devices by the Federal Government; and

“(4) consistent with the second draft National Institute for Standards and Technology Interagency or Internal Report 8259 titled ‘Recommendations for IoT Device Manufacturers: Foundational Activities and Core Device Cybersecurity Capability Baseline’, published in January 2020, Internet of Things devices are devices that—

“(A) have at least one transducer (sensor or actuator) for interacting directly with the physical world, have at least one network interface, and are not conventional Information Technology devices, such as smartphones and laptops, for which the identification and implementation of cybersecurity features is already well understood; and

“(B) can function on their own and are not only able to function when acting as a component of another device, such as a processor.”

§ 278g-3b. Security standards and guidelines for agencies on use and management of Internet of Things devices

(a) National Institute of Standards and Technology development of standards and guidelines for use of Internet of Things devices by agencies

(1) In general

Not later than 90 days after December 4, 2020, the Director of the Institute shall develop and publish under section 278g-3 of this title standards and guidelines for the Federal Government on the appropriate use and management by agencies of Internet of Things devices owned or controlled by an agency and connected to information systems owned or controlled by an agency, including minimum information security requirements for managing cybersecurity risks associated with such devices.

(2) Consistency with ongoing efforts

The Director of the Institute shall ensure that the standards and guidelines developed under paragraph (1) are consistent with the efforts of the National Institute of Standards and Technology in effect on December 4, 2020—

(A) regarding—

(i) examples of possible security vulnerabilities of Internet of Things devices; and

(ii) considerations for managing the security vulnerabilities of Internet of Things devices; and

(B) with respect to the following considerations for Internet of Things devices:

- (i) Secure Development.
- (ii) Identity management.
- (iii) Patching.
- (iv) Configuration management.

(3) Considering relevant standards

In developing the standards and guidelines under paragraph (1), the Director of the Institute shall consider relevant standards, guidelines, and best practices developed by the private sector, agencies, and public-private partnerships.

(b) Review of agency information security policies and principles

(1) Requirement

Not later than 180 days after the date on which the Director of the Institute completes the development of the standards and guidelines required under subsection (a), the Director of OMB shall review agency information security policies and principles on the basis of the standards and guidelines published under subsection (a) pertaining to Internet of Things devices owned or controlled by agencies (excluding agency information security policies and principles pertaining to Internet of Things of devices owned or controlled by agencies that are or comprise a national security system) for consistency with the standards and guidelines submitted under subsection (a) and issue such policies and principles as may be necessary to ensure those policies and principles are consistent with such standards and guidelines.

(2) Review

In reviewing agency information security policies and principles under paragraph (1) and issuing policies and principles under such paragraph, as may be necessary, the Director of OMB shall—

(A) consult with the Director of the Cybersecurity and Infrastructure Security Agency of the Department of Homeland Security; and

(B) ensure such policies and principles are consistent with the information security requirements under subchapter II of chapter 35 of title 44.

(3) National security systems

Any policy or principle issued by the Director of OMB under paragraph (1) shall not apply to national security systems.

(c) Quinquennial review and revision

(1) Review and revision of NIST standards and guidelines

Not later than 5 years after the date on which the Director of the Institute publishes the standards and guidelines under subsection (a), and not less frequently than once every 5 years thereafter, the Director of the Institute, shall—

(A) review such standards and guidelines; and

(B) revise such standards and guidelines as appropriate.

(2) Updated OMB policies and principles for agencies

Not later than 180 days after the Director of the Institute makes a revision pursuant to paragraph (1), the Director of OMB, in consultation with the Director of the Cybersecurity and Infrastructure Security

Agency of the Department of Homeland Security, shall update any policy or principle issued under subsection (b)(1) as necessary to ensure those policies and principles are consistent with the review and any revision under paragraph (1) under this subsection and paragraphs (2) and (3) of subsection (b).

(d) Revision of Federal Acquisition Regulation

The Federal Acquisition Regulation shall be revised as necessary to implement any standards and guidelines promulgated in this section. (Pub. L. 116-207, § 4, Dec. 4, 2020, 134 Stat. 1002.)

Editorial Notes

CODIFICATION

Section was enacted as part of the Internet of Things Cybersecurity Improvement Act of 2020, also known as the IoT Cybersecurity Improvement Act of 2020, and not as part of the National Institute of Standards and Technology Act which comprises this chapter.

Statutory Notes and Related Subsidiaries

DEFINITIONS

For definitions of terms used in this section, see section 278g-3a of this title.

§ 278g-3c. Guidelines on the disclosure process for security vulnerabilities relating to information systems, including Internet of Things devices

(a) In general

Not later than 180 days after December 4, 2020, the Director of the Institute, in consultation with such cybersecurity researchers and private sector industry experts as the Director considers appropriate, and in consultation with the Secretary, shall develop and publish under section 278g-3 of this title guidelines—

(1) for the reporting, coordinating, publishing, and receiving of information about—

(A) a security vulnerability relating to information systems owned or controlled by an agency (including Internet of Things devices owned or controlled by an agency); and

(B) the resolution of such security vulnerability; and

(2) for a contractor providing to an agency an information system (including an Internet of Things device) and any subcontractor thereof at any tier providing such information system to such contractor, on—

(A) receiving information about a potential security vulnerability relating to the information system; and

(B) disseminating information about the resolution of a security vulnerability relating to the information system.

(b) Elements

The guidelines published under subsection (a) shall—

(1) to the maximum extent practicable, be aligned with industry best practices and Standards 29147 and 30111 of the International Standards Organization (or any successor standard) or any other appropriate, relevant, and widely-used standard;

(2) incorporate guidelines on—

(A) receiving information about a potential security vulnerability relating to an information system owned or controlled by an agency (including an Internet of Things device); and

(B) disseminating information about the resolution of a security vulnerability relating to an information system owned or controlled by an agency (including an Internet of Things device); and

(3) be consistent with the policies and procedures produced under section 659(m) of title 6.

(c) Information items

The guidelines published under subsection (a) shall include example content, on the information items that should be reported, coordinated, published, or received pursuant to this section by a contractor, or any subcontractor thereof at any tier, providing an information system (including Internet of Things device) to the Federal Government.

(d) Oversight

The Director of OMB shall oversee the implementation of the guidelines published under subsection (a).

(e) Operational and technical assistance

The Secretary, in consultation with the Director of OMB, shall administer the implementation of the guidelines published under subsection (a) and provide operational and technical assistance in implementing such guidelines.

(Pub. L. 116-207, § 5, Dec. 4, 2020, 134 Stat. 1004.)

Editorial Notes

CODIFICATION

Section was enacted as part of the Internet of Things Cybersecurity Improvement Act of 2020, also known as the IoT Cybersecurity Improvement Act of 2020, and not as part of the National Institute of Standards and Technology Act which comprises this chapter.

Statutory Notes and Related Subsidiaries

DEFINITIONS

For definitions of terms used in this section, see section 278g-3a of this title.

§ 278g-3d. Implementation of coordinated disclosure of security vulnerabilities relating to agency information systems, including Internet of Things devices

(a) Agency guidelines required

Not later than 2 years after December 4, 2020, the Director of OMB, in consultation with the Secretary, shall develop and oversee the implementation of policies, principles, standards, or guidelines as may be necessary to address security vulnerabilities of information systems (including Internet of Things devices).

(b) Operational and technical assistance

Consistent with section 3553(b) of title 44, the Secretary, in consultation with the Director of OMB, shall provide operational and technical assistance to agencies on reporting, coordinating, publishing, and receiving information about security vulnerabilities of information systems (including Internet of Things devices).