

**(7) National security system**

The term “national security system” has the meaning given the term in section 11103 of title 40.

**(8) Secretary**

The term “Secretary” means the Secretary of Homeland Security.

(Pub. L. 114–113, div. N, title II, §222, Dec. 18, 2015, 129 Stat. 2963; Pub. L. 115–278, §2(h)(1)(D), Nov. 16, 2018, 132 Stat. 4182.)

## REFERENCES IN TEXT

This subchapter, referred to in text, was in the original “this subtitle”, meaning subtitle B (§§221–229) of title II of div. N of Pub. L. 114–113, which is classified principally to this subchapter. For complete classification of subtitle B to the Code, see Tables.

## AMENDMENTS

2018—Par. (2). Pub. L. 115–278, §2(h)(1)(D)(i), substituted “section 660 of this title” for “section 149 of this title, as added by section 223(a)(4) of this division”.

Par. (4). Pub. L. 115–278, §2(h)(1)(D)(ii), substituted “section 659 of this title” for “section 148 of this title, as so redesignated by section 223(a)(3) of this division”.

**§ 1522. Advanced internal defenses****(a) Advanced network security tools****(1) In general**

The Secretary shall include, in the efforts of the Department to continuously diagnose and mitigate cybersecurity risks, advanced network security tools to improve visibility of network activity, including through the use of commercial and free or open source tools, and to detect and mitigate intrusions and anomalous activity.

**(2) Development of plan**

The Director shall develop and the Secretary shall implement a plan to ensure that each agency utilizes advanced network security tools, including those described in paragraph (1), to detect and mitigate intrusions and anomalous activity.

**(b) Prioritizing advanced security tools**

The Director and the Secretary, in consultation with appropriate agencies, shall—

(1) review and update Government-wide policies and programs to ensure appropriate prioritization and use of network security monitoring tools within agency networks; and

(2) brief appropriate congressional committees on such prioritization and use.

**(c) Improved metrics**

The Secretary, in collaboration with the Director, shall review and update the metrics used to measure security under section 3554 of title 44 to include measures of intrusion and incident detection and response times.

**(d) Transparency and accountability**

The Director, in consultation with the Secretary, shall increase transparency to the public on agency cybersecurity posture, including by increasing the number of metrics available on Federal Government performance websites and, to the greatest extent practicable, displaying metrics for department components, small agencies, and micro-agencies.

**(e) Omitted****(f) Exception**

The requirements under this section shall not apply to the Department of Defense, a national security system, or an element of the intelligence community.

(Pub. L. 114–113, div. N, title II, §224, Dec. 18, 2015, 129 Stat. 2967.)

## CODIFICATION

Section is comprised of section 224 of title II of div. N of Pub. L. 114–113. Subsec. (e) of section 224 of title II of div. N of Pub. L. 114–113 amended section 3553 of Title 44, Public Printing and Documents.

**§ 1523. Federal cybersecurity requirements****(a) Implementation of Federal cybersecurity standards**

Consistent with section 3553 of title 44, the Secretary, in consultation with the Director, shall exercise the authority to issue binding operational directives to assist the Director in ensuring timely agency adoption of and compliance with policies and standards promulgated under section 11331 of title 40 for securing agency information systems.

**(b) Cybersecurity requirements at agencies****(1) In general**

Consistent with policies, standards, guidelines, and directives on information security under subchapter II of chapter 35 of title 44 and the standards and guidelines promulgated under section 11331 of title 40 and except as provided in paragraph (2), not later than 1 year after December 18, 2015, the head of each agency shall—

(A) identify sensitive and mission critical data stored by the agency consistent with the inventory required under the first subsection (c) (relating to the inventory of major information systems) and the second subsection (c) (relating to the inventory of information systems) of section 3505 of title 44;

(B) assess access controls to the data described in subparagraph (A), the need for readily accessible storage of the data, and individuals' need to access the data;

(C) encrypt or otherwise render indecipherable to unauthorized users the data described in subparagraph (A) that is stored on or transiting agency information systems;

(D) implement a single sign-on trusted identity platform for individuals accessing each public website of the agency that requires user authentication, as developed by the Administrator of General Services in collaboration with the Secretary; and

(E) implement identity management consistent with section 7464 of title 15, including multi-factor authentication, for—

(i) remote access to an agency information system; and

(ii) each user account with elevated privileges on an agency information system.

**(2) Exception**

The requirements under paragraph (1) shall not apply to an agency information system for which—

(A) the head of the agency has personally certified to the Director with particularity that—

(i) operational requirements articulated in the certification and related to the agency information system would make it excessively burdensome to implement the cybersecurity requirement;

(ii) the cybersecurity requirement is not necessary to secure the agency information system or agency information stored on or transiting it; and

(iii) the agency has taken all necessary steps to secure the agency information system and agency information stored on or transiting it; and

(B) the head of the agency or the designee of the head of the agency has submitted the certification described in subparagraph (A) to the appropriate congressional committees and the agency's authorizing committees.

### (3) Construction

Nothing in this section shall be construed to alter the authority of the Secretary, the Director, or the Director of the National Institute of Standards and Technology in implementing subchapter II of chapter 35 of title 44. Nothing in this section shall be construed to affect the National Institute of Standards and Technology standards process or the requirement under section 3553(a)(4) of such title or to discourage continued improvements and advancements in the technology, standards, policies, and guidelines used to promote Federal information security.

### (c) Exception

The requirements under this section shall not apply to the Department of Defense, a national security system, or an element of the intelligence community.

(Pub. L. 114–113, div. N, title II, §225, Dec. 18, 2015, 129 Stat. 2967.)

## § 1524. Assessment; reports

### (a) Definitions

In this section:

#### (1) Agency information

The term “agency information” has the meaning given the term in section 2213 of the Homeland Security Act of 2002 [6 U.S.C. 663].

#### (2) Cyber threat indicator; defensive measure

The terms “cyber threat indicator” and “defensive measure” have the meanings given those terms in section 1501 of this title.

#### (3) Intrusion assessments

The term “intrusion assessments” means actions taken under the intrusion assessment plan to identify and remove intruders in agency information systems.

#### (4) Intrusion assessment plan

The term “intrusion assessment plan” means the plan required under section 2210(b)(1) of the Homeland Security Act of 2002 [6 U.S.C. 660(b)(1)].

#### (5) Intrusion detection and prevention capabilities

The term “intrusion detection and prevention capabilities” means the capabilities re-

quired under section 2213(b) of the Homeland Security Act of 2002 [6 U.S.C. 663(b)].

### (b) Third-party assessment

Not later than 3 years after December 18, 2015, the Comptroller General of the United States shall conduct a study and publish a report on the effectiveness of the approach and strategy of the Federal Government to securing agency information systems, including the intrusion detection and prevention capabilities and the intrusion assessment plan.

### (c) Reports to Congress

#### (1) Intrusion detection and prevention capabilities

##### (A) Secretary of Homeland Security report

Not later than 6 months after December 18, 2015, and annually thereafter, the Secretary shall submit to the appropriate congressional committees a report on the status of implementation of the intrusion detection and prevention capabilities, including—

(i) a description of privacy controls;

(ii) a description of the technologies and capabilities utilized to detect cybersecurity risks in network traffic, including the extent to which those technologies and capabilities include existing commercial and noncommercial technologies;

(iii) a description of the technologies and capabilities utilized to prevent network traffic associated with cybersecurity risks from transiting or traveling to or from agency information systems, including the extent to which those technologies and capabilities include existing commercial and noncommercial technologies;

(iv) a list of the types of indicators or other identifiers or techniques used to detect cybersecurity risks in network traffic transiting or traveling to or from agency information systems on each iteration of the intrusion detection and prevention capabilities and the number of each such type of indicator, identifier, and technique;

(v) the number of instances in which the intrusion detection and prevention capabilities detected a cybersecurity risk in network traffic transiting or traveling to or from agency information systems and the number of times the intrusion detection and prevention capabilities blocked network traffic associated with cybersecurity risk; and

(vi) a description of the pilot established under section 2213(c)(5) of the Homeland Security Act of 2002 [6 U.S.C. 663(c)(5)], including the number of new technologies tested and the number of participating agencies.

##### (B) OMB report

Not later than 18 months after December 18, 2015, and annually thereafter, the Director shall submit to Congress, as part of the report required under section 3553(c) of title 44, an analysis of agency application of the intrusion detection and prevention capabilities, including—