

118TH CONGRESS
1ST SESSION

H. R. 5431

To promote space safety and provide for policy, planning, and agency roles and responsibilities for the transition to a civil space situational awareness capability of certain space situational awareness activities, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

SEPTEMBER 13, 2023

Mr. BEYER (for himself, Mr. NORCROSS, and Ms. LOFGREN) introduced the following bill; which was referred to the Committee on Science, Space, and Technology, and in addition to the Committee on Armed Services, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To promote space safety and provide for policy, planning, and agency roles and responsibilities for the transition to a civil space situational awareness capability of certain space situational awareness activities, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

2 (a) **SHORT TITLE.**—This Act may be cited as the
3 “Space Safety and Situational Awareness Transition Act
4 of 2023” or the “Space SSA Transition Act of 2023”.

5 (b) **TABLE OF CONTENTS.**—The table of contents for
6 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Definitions.

TITLE I—AUTHORIZATION OF APPROPRIATIONS

- Sec. 101. Authorization of appropriations for fiscal years 2024 through 2025.

TITLE II—POLICY

- Sec. 201. Findings.
- Sec. 202. Sense of Congress on United States Government responsibility.
- Sec. 203. United States policy.

**TITLE III—TRANSITION TO CIVIL SPACE SITUATIONAL
AWARENESS CAPABILITY**

- Sec. 301. Sense of Congress on need for transition.
- Sec. 302. Interagency Transition Plan.

**TITLE IV—AGENCY ROLES AND RESPONSIBILITIES FOR IMPLE-
MENTATION OF CIVIL SPACE SITUATIONAL AWARENESS TRAN-
SITION**

- Sec. 401. Space situational awareness services and information.
- Sec. 402. Organizational management structure for space situational awareness services and information.

TITLE V—RESEARCH AND DEVELOPMENT

- Sec. 501. Informing and improving space situational awareness.
- Sec. 502. Research strategy.

TITLE VI—OTHER CONSIDERATIONS

- Sec. 601. Cybersecurity plan.
- Sec. 602. Study on international cooperation in space situational awareness.
- Sec. 603. Report on international data sharing agreements.
- Sec. 604. Study on space traffic coordination.

TITLE VII—GAO REVIEW

- Sec. 701. GAO review.

1 **SEC. 2. DEFINITIONS.**

2 In this Act:

3 (1) ADMINISTRATION.—The term “Administra-
4 tion” has the meaning given such term in section
5 10101 of title 51, United States Code.

6 (2) ADMINISTRATOR.—The term “Adminis-
7 trator” has the meaning given such term in section
8 10101 of title 51, United States Code.

9 (3) APPROPRIATE COMMITTEES OF CON-
10 GRESS.—The term “appropriate committees of Con-
11 gress” means the Committee on Science, Space, and
12 Technology and the Committee on Armed Services of
13 the House of Representatives and the Committee on
14 Commerce, Science, and Transportation and the
15 Committee on Armed Services of the Senate.

16 (4) DoD.—The term “DoD” means the De-
17 partment of Defense.

18 (5) NASA.—The term “NASA” means the Na-
19 tional Aeronautics and Space Administration.

20 (6) NOAA.—The term “NOAA” means the Na-
21 tional Oceanic and Atmospheric Administration of
22 the Department of Commerce.

23 (7) SECRETARY.—The term “Secretary” means
24 the Secretary of Commerce.

25 (8) SPACE OBJECT.—The term “space object”
26 means any artificial object or system, including com-

1 ponents or pieces thereof, orbiting the Earth or
2 passing into or through outer space.

3 (9) SPACE OPERATOR.—The term “space oper-
4 ator” means the person or entity that has responsi-
5 bility for commanding operations of a space object
6 in outer space.

7 (10) SPACE SITUATIONAL AWARENESS.—The
8 term “space situational awareness” means the
9 knowledge and characterization of space objects and
10 their operational environment to facilitate decisions
11 that support safe, stable, and sustainable space ac-
12 tivities.

13 (11) SPACE TRAFFIC COORDINATION.—The
14 term “space traffic coordination” means the plan-
15 ning, assessment, and on-orbit coordination of activi-
16 ties to enhance the safety, stability, and sustain-
17 ability of operations in the space environment.

18 **TITLE I—AUTHORIZATION OF** 19 **APPROPRIATIONS**

20 **SEC. 101. AUTHORIZATION OF APPROPRIATIONS FOR FIS-** 21 **CAL YEARS 2024 THROUGH 2025.**

22 To carry out this Act, there is authorized to be appro-
23 priated—

24 (1) to the Department of Commerce—

25 (A) \$90,000,000 for fiscal year 2024; and

1 (B) \$95,000,000 for fiscal year 2025; and

2 (2) to NASA—

3 (A) \$50,000,000 for fiscal year 2024; and

4 (B) \$53,000,000 for fiscal year 2025.

5 **TITLE II—POLICY**

6 **SEC. 201. FINDINGS.**

7 Congress finds the following:

8 (1) Commercial activity in space is accelerating
9 to meet the global demand for a growing commercial
10 space market.

11 (2) Space is becoming more congested, particu-
12 larly in some orbital regimes, with the number of ac-
13 tive satellites increasing significantly over the past
14 10 years and continuing to grow.

15 (3) Orbital debris ranging from sub-millimeter-
16 sized debris to large defunct rocket bodies and inop-
17 erable spacecraft threatens the safety of orbital op-
18 erations.

19 (4) Space situational awareness provides the
20 foundation for understanding—

21 (A) where objects, both active and inactive,
22 are located and for predicting where satellites
23 or debris will be in the future; and

1 (B) the distribution of orbital debris and
2 the risk they pose to operational satellites and
3 crewed spacecraft.

4 (5) United States leadership in coordinating
5 international efforts on space situational awareness
6 is essential for the safety and sustainability of the
7 space environment, and for the safety of human ac-
8 tivities in outer space.

9 (6) Conducting safe and responsible space oper-
10 ations will have a major impact on the sustainability
11 of space activities, and in turn on the prosperity and
12 national security of the United States.

13 (7) To date, the Secretary of Defense, acting
14 through the Commander, United States Space Com-
15 mand, has been providing certain space situational
16 awareness services and information to Federal Gov-
17 ernment, commercial and international space opera-
18 tors, and the international community, including
19 warnings of potential conjunctions.

20 (8) The Secretary of Defense and the Secretary
21 of Commerce have begun collaborating to begin
22 transitioning some capabilities from the Department
23 of Defense to the Department of Commerce.

1 **SEC. 202. SENSE OF CONGRESS ON UNITED STATES GOV-**
2 **ERNMENT RESPONSIBILITY.**

3 It is the sense of Congress that the United States
4 Government, in coordination with other countries and the
5 private sector, has a responsibility to be a good steward
6 of the space environment. It is the further sense of Con-
7 gress that the United States Government should—

8 (1) lead in practices and policies to maintain a
9 safe, sustainable space environment for civil, na-
10 tional security, and commercial use;

11 (2) provide validated space situational aware-
12 ness services and information as public goods for the
13 purposes of promoting on-orbit operational safety;

14 (3) develop a coordinated and integrated ap-
15 proach to improving and delivering space situational
16 awareness services and information;

17 (4) leverage, to the maximum extent prac-
18 ticable, commercial innovation and capabilities rel-
19 evant to space situational awareness;

20 (5) lead collaborations with international and
21 nongovernmental entities, including satellite opera-
22 tors and space situational awareness services and in-
23 formation providers, as appropriate, on space situa-
24 tional awareness and on best practices regarding
25 space traffic coordination that—

1 (A) support the growth of commerce in
2 space and foster a competitive United States
3 commercial space industry; and

4 (B) promote innovation in technology and
5 operations while improving safety;

6 (6) lead the international community in collabo-
7 rations on practices and approaches that advance a
8 sustainable and accessible space environment; and

9 (7) transition to the Department of Commerce
10 certain space situational awareness services and in-
11 formation, including public conjunction notifications,
12 from the Department of Defense.

13 **SEC. 203. UNITED STATES POLICY.**

14 It is the policy of the United States to—

15 (1) make publicly and continually available, free
16 of direct user fees, validated space situational aware-
17 ness services and information, including conjunction
18 notifications and conjunction data messages;

19 (2) continue to enhance and improve the accu-
20 racy and precision of the services and information
21 referred to in paragraph (1);

22 (3) make available to governmental and non-
23 governmental space operators space safety and sus-
24 tainability tools, voluntary consensus standards, and
25 risk mitigation information and practices;

1 (4) support interdisciplinary research and devel-
2 opment to promote space safety and improve space
3 situational awareness;

4 (5) support mechanisms for transitioning into
5 operational activities the research and development
6 described in paragraph (4);

7 (6) support the use, where validated and prac-
8 ticable, of commercial technologies, data, systems,
9 and services that can supplement and enhance
10 United States Government-provided space situa-
11 tional awareness services and information;

12 (7) ensure the Federal Government remains the
13 United States authoritative source for information
14 and services relating to space situational awareness
15 for public and private space endeavors;

16 (8) promote and facilitate the development and
17 encourage the adoption of voluntary consensus
18 standards and best practices for space situational
19 awareness; and

20 (9) lead international collaborations to the
21 widest extent possible on a framework for inter-
22 nationally aligned space situational awareness and
23 best practices for space traffic coordination.

1 **TITLE III—TRANSITION TO CIVIL**
2 **SPACE SITUATIONAL AWARE-**
3 **NESS CAPABILITY**

4 **SEC. 301. SENSE OF CONGRESS ON NEED FOR TRANSITION.**

5 It is the sense of Congress that the DoD continues
6 to make essential contributions to the safety of the space
7 environment by providing space operators with services
8 and information for managing the safe operations of
9 United States Government, commercial, and non-United
10 States space operations, in accordance with section 2274
11 of title 10, United States Code. It is the further sense
12 of Congress that the growing number of space objects has
13 created an increasing demand for improved accuracy and
14 precision of space situational awareness services and infor-
15 mation for space operators, which requires personnel and
16 resources that are not related to the DoD's primary mis-
17 sion. Therefore, it is the sense of Congress that the Presi-
18 dent should provide all necessary support to plan for an
19 effective transition to the Department of Commerce from
20 the Department of Defense of certain space situational
21 awareness services and information.

22 **SEC. 302. INTERAGENCY TRANSITION PLAN.**

23 (a) IN GENERAL.—Not later than 60 days after the
24 date of the enactment of this Act, the Secretary and the
25 Secretary of Defense, in coordination with the Adminis-

1 trator and the heads of other relevant Federal agencies,
2 shall establish an Interagency Transition Working Group
3 (in this Act referred to as the “Working Group”) and
4 begin developing an Interagency Transition Plan for Space
5 Situational Awareness (in this Act referred to as the
6 “Interagency Transition Plan”). The Working Group shall
7 carry out the Interagency Transition Plan. The Inter-
8 agency Transition Plan shall direct the planning, assess-
9 ment, and transition of certain activities carried out under
10 section 2274 of title 10, United States Code, as appro-
11 priate, from the existing DoD-based space situational
12 awareness operations to a civil space situational awareness
13 capability under the Secretary.

14 (b) WORKING GROUP.—The Working Group shall—

15 (1) be led by—

16 (A) a Senior Executive Service-level official
17 (in this Act referred to as the “Working Group
18 Chair”) appointed by the Secretary; and

19 (B) a Senior Executive Service or Flag Of-
20 ficer level official (in this Act referred to as the
21 “Working Group Vice Chair”) appointed by the
22 Secretary of Defense; and

23 (2) include—

24 (A) a team of Federal Government employ-
25 ees from relevant Federal agencies, including

1 the DoD and NASA, with experience and exper-
2 tise in space situational awareness activities, in-
3 cluding tracking, data processing, conjunction
4 assessment, and space operations;

5 (B) the Director of the Office of Space
6 Commerce;

7 (C) the Deputy Commander of United
8 States Space Command; and

9 (D) the Commander of United States
10 Space Force Space Operations Command.

11 (c) RESPONSIBILITIES.—

12 (1) IN GENERAL.—The Working Group shall—

13 (A) carry out the Interagency Transition
14 Plan for the planning, assessment, and phased
15 transition of space situational awareness serv-
16 ices and information to a civil space situational
17 awareness capability under the Secretary;

18 (B) in consultation with the National Insti-
19 tute of Standards and Technology, standards
20 organizations, and private industry, promote
21 and facilitate the development and encourage
22 the adoption of voluntary consensus standards
23 and best practices for space situational aware-
24 ness;

1 (C) establish timelines for the phased tran-
2 sition of a civil space situational awareness ca-
3 pability; and

4 (D) carry out an assessment of—

5 (i) Federal Government and non-gov-
6 ernment space situational awareness capa-
7 bilities; and

8 (ii) Federal Government and non-gov-
9 ernment best practices regarding risk miti-
10 gation and collision avoidance.

11 (2) AGENCY AGREEMENTS.—The Secretary and
12 the Secretary of Defense may form partnerships or
13 agreements with the heads of other relevant agencies
14 in furtherance of this Act.

15 (3) MILESTONE.—The Interagency Transition
16 Plan shall include a deadline for public deployment
17 of space situational awareness services and informa-
18 tion by not later than December 31, 2026.

19 (d) INTERAGENCY TRANSITION PLAN.—

20 (1) IN GENERAL.—Not later than six months
21 after the date of the enactment of this Act, the Sec-
22 retary and the Secretary of Defense shall transmit
23 to the appropriate committees of Congress the Inter-
24 agency Transition Plan, and shall make the Inter-
25 agency Transition Plan publicly available, with data

1 protections, as necessary, not later than 30 days
2 after such transmittal.

3 (2) ELEMENTS.—The Interagency Transition
4 Plan shall include the following elements:

5 (A) A listing and detailed descriptions of
6 phases or milestones, including associated esti-
7 mated timelines, regarding the transition to the
8 Department of Commerce of capabilities relat-
9 ing to space situational awareness, including a
10 description of the space situational awareness
11 services and information that will be provided
12 in accordance with subsection (c)(3).

13 (B) A system architecture, including the
14 following:

15 (i) Identification of the Federal Gov-
16 ernment and nongovernment data, observa-
17 tions, and analytical tools needed for each
18 phase of transition, and a description of
19 how such data, observations, and analytical
20 tools are to be obtained.

21 (ii) Identification of the space situa-
22 tional awareness services and information
23 to be transitioned from the Department of
24 Defense to the Department of Commerce.

1 (iii) Identification of the space situa-
2 tional awareness services and information
3 to be provided, including those identified
4 pursuant to clause (ii), and any additional
5 services and information that may be pro-
6 vided in accordance with the policy speci-
7 fied in section 203(1), under each phase of
8 transition.

9 (iv) Identification of any requirements
10 and standards for space situational aware-
11 ness services and information, including
12 associated data provided by space opera-
13 tors.

14 (v) Identification of criteria and meth-
15 ods for verifying and validating non-Fed-
16 eral Government space situational aware-
17 ness services and information, including
18 associated data, provided by space opera-
19 tors.

20 (vi) Identification of risk assessment
21 and mitigation support services and infor-
22 mation that may be provided.

23 (vii) Identification of options for an
24 information platform or mechanism to en-
25 able innovative research, development, test-

1 ing, and experimentation opportunities for
2 commercial, academic, or other entities to
3 support and improve space situational
4 awareness services and information, as
5 practicable.

6 (C) Performance measures for the level of
7 accuracy needed for the space situational
8 awareness services and information to be identi-
9 fied and provided in accordance with subpara-
10 graph (B)(ii).

11 (D) A description of the elements in the
12 Interagency Transition Plan anticipated to be
13 provided by commercial or other non-Federal
14 Government entities.

15 (E) An estimate of the workforce, training,
16 infrastructure, including ground-based, space-
17 based, and in-situ infrastructure, and annual
18 budgetary resources necessary to carry out a
19 civil space situational awareness capability for
20 the next five years.

21 (e) CONSIDERATION.—In carrying out the Inter-
22 agency Transition Plan, the Interagency Transition Work-
23 ing Group shall—

24 (1) take into consideration any agency agree-
25 ments under subsection (e)(2) and any existing con-

1 tracts or agreements related to space situational
2 awareness services and information; and

3 (2) accept input, as appropriate, from industry,
4 academia, and nonprofit organizations.

5 (f) BIENNIAL REPORTING.—The Working Group
6 Chair and Working Group Vice Chair shall report bian-
7 nually to the appropriate committees of Congress on the
8 progress of the transition under this section.

9 (g) BRIEFINGS.—The Working Group Chair and
10 Working Group Vice Chair shall brief the appropriate
11 committees of Congress on the Interagency Transition
12 Plan not later than 14 days after transmitting the Inter-
13 agency Transition Plan pursuant to subsection (d)(1).

14 (h) BIENNIAL UPDATES.—The Secretary of Defense
15 and the Secretary, in consultation with the Administrator,
16 shall update the Interagency Transition Plan, as nec-
17 essary, but not less frequently than biennially, and trans-
18 mit such updated Interagency Transition Plan to the ap-
19 propriate committees of Congress.

20 (i) VOLUNTARY CONSENSUS STANDARDS AND BEST
21 PRACTICES.—

22 (1) IN GENERAL.—Not later than six months
23 after the submission of the plan described in sub-
24 section (d), the Working Group shall—

1 (A) review existing voluntary consensus
2 standards and best practices;

3 (B) in consultation with private industry
4 and standards organizations, promote and fa-
5 cilitate the development of voluntary consensus
6 standards and best practices, as needed; and

7 (C) make publicly available such voluntary
8 consensus standards and best practices for
9 space situational awareness.

10 (2) UPDATES.—The Working Group shall bien-
11 nially through 2028 update the voluntary consensus
12 standards and best practices developed pursuant to
13 paragraph (1).

14 (3) ELEMENTS.—The voluntary consensus
15 standards and best practices developed and updated
16 in accordance with this subsection should include, at
17 a minimum, the following elements:

18 (A) Space situational awareness data inter-
19 operability standards and data sharing proto-
20 cols.

21 (B) Criteria and methods for verification
22 and validation of the space situational aware-
23 ness services and information described in sub-
24 section (d)(2)(B)(iii).

1 (C) Content and message format for con-
2 junction data messages.

3 (D) Emergency response protocols after a
4 collision event, including communication be-
5 tween Federal Government agencies, space op-
6 erators, and other relevant entities.

7 (E) Any other matters the Working Group
8 determines appropriate.

9 (j) SUNSET.—The Working Group shall terminate six
10 months after the date of the public deployment pursuant
11 to section 302(c)(3) of space situational awareness serv-
12 ices and information.

13 **TITLE IV—AGENCY ROLES AND**
14 **RESPONSIBILITIES FOR IM-**
15 **PLEMENTATION OF CIVIL**
16 **SPACE SITUATIONAL AWARE-**
17 **NESS TRANSITION**

18 **SEC. 401. SPACE SITUATIONAL AWARENESS SERVICES AND**
19 **INFORMATION.**

20 (a) IN GENERAL.—In carrying out section 302(c)(3)
21 (relating to the deadline for deployment of space situa-
22 tional awareness services and information), the Working
23 Group shall collaborate with the Secretary.

1 (b) DEMONSTRATION.—The space situational aware-
2 ness services and information referred to in subsection (a)
3 shall—

4 (1) follow the Interagency Transition Plan
5 under section 302, as appropriate;

6 (2) make publicly available and free of direct
7 user fees space situational awareness safety services
8 and information, including services and information
9 needed for maintaining spaceflight safety and space
10 sustainability;

11 (3) include a digital space object identification
12 and characterization system to organize known char-
13 acteristics concerning space objects;

14 (4) communicate and make publicly available
15 the voluntary consensus standards and best practices
16 under section 302(i);

17 (5) support openness and transparency, to the
18 greatest extent practicable, in space situational
19 awareness services, information, and coordination;

20 (6) carry out testing to—

21 (A) demonstrate the interoperability of
22 data and observations under section
23 302(d)(2)(B);

24 (B) verify and validate such data and ob-
25 servations, as appropriate and practicable; and

- 1 (C) demonstrate the issuance of—
2 (i) conjunction data messages; and
3 (ii) conjunction assessments; and
4 (7) issue conjunction data messages.

5 (c) INDEMNIFICATION.—The United States, any
6 agency or instrumentality thereof, and any individual,
7 firm, corporation, or other person acting for the United
8 States, shall be immune from any suit in any court for
9 any cause of action arising from the provision or receipt
10 of space situational-awareness data, information, or serv-
11 ices, whether or not provided in accordance with this sec-
12 tion, or any related action or omission. When data, infor-
13 mation, or services provided in good faith by entities other
14 than the United States Government are acquired by the
15 United States Government and provided by the United
16 States Government as part of space situational awareness
17 services or information, such entities shall be immune
18 from suit in any court for any cause of action arising from
19 reliance on such data, information, or services.

20 **SEC. 402. ORGANIZATIONAL MANAGEMENT STRUCTURE**
21 **FOR SPACE SITUATIONAL AWARENESS SERV-**
22 **ICES AND INFORMATION.**

23 (a) PLAN.—Not later than six months after the date
24 of the enactment of this Act, the Secretary, in consultation
25 with the Secretary of Defense and the Administrator, shall

1 submit to the appropriate committees of Congress a plan
2 for—

3 (1) an organizational management structure
4 within the Department of Commerce for managing
5 the activities under this title;

6 (2) transitioning to such organizational man-
7 agement structure the functions and responsibilities
8 of the Working Group after the termination of such
9 Working Group; and

10 (3) establishing milestones and performance
11 measures for such organizational management struc-
12 ture.

13 (b) ORGANIZATIONAL MANAGEMENT.—Not later
14 than six months after the submission of the plan described
15 in subsection (a), the Secretary, in accordance with such
16 proposal, shall implement the organizational management
17 structure referred to in paragraph (1) of such subsection,
18 and shall appoint a Director of such organizational man-
19 agement structure, who shall be a member of the Senior
20 Executive Service. The Director shall establish a schedule
21 and budgetary requirements for such organizational man-
22 agement structure.

1 **TITLE V—RESEARCH AND**
2 **DEVELOPMENT**

3 **SEC. 501. INFORMING AND IMPROVING SPACE SITUA-**
4 **TIONAL AWARENESS.**

5 (a) **IN GENERAL.**—The Administrator, in coordina-
6 tion with the heads of other relevant Federal agencies,
7 shall—

8 (1) carry out United States Government civil
9 research and development to inform and improve
10 space situational awareness; and

11 (2) support the transition into the civil space
12 situational awareness capability of such research and
13 development, as practicable.

14 (b) **IMPLEMENTATION.**—To implement subsection
15 (a), the Administrator, as necessary, shall carry out re-
16 search and development that will support, enable, and fa-
17 cilitate the transition under section 302. Areas of research
18 and development may include the following:

19 (1) Analytics.

20 (2) Space object identification.

21 (3) Modeling, analysis, and predictions.

22 (4) Space environmental conditions and im-
23 pacts.

24 (5) Risk assessment.

25 (6) Post-mission disposal.

1 (7) Orbital debris mitigation, including research
2 and development on active debris removal.

3 (8) Any other areas the Administrator deter-
4 mines appropriate, including areas to be prioritized
5 in accordance with the research strategy under sec-
6 tion 502.

7 (c) CONSIDERATION.—The Administrator shall use
8 competitively selected grants, contracts, and agreements,
9 as appropriate and practicable, in addition to other com-
10 petitive research and development arrangements, in car-
11 rying out this section.

12 **SEC. 502. RESEARCH STRATEGY.**

13 (a) STRATEGY.—Not later than three months after
14 the transmittal of the Interagency Transition Plan pursu-
15 ant to section 302(d), the Administrator shall enter into
16 an arrangement with the National Academies of Sciences,
17 Engineering, and Medicine to develop a research strategy
18 to inform and improve space situational awareness. Such
19 strategy shall provide prioritized recommendations on re-
20 search and the transition of research into operations and
21 practice, and shall include measures to monitor progress
22 on such recommendations, as well as any other appro-
23 priate recommendations.

24 (b) TRANSMITTAL.—Not later than 27 months after
25 the date of the enactment of this Act, the Administrator

1 shall transmit to the appropriate committees of Congress
2 a copy of the research strategy under subsection (a) and
3 a plan for implementing any recommendations included in
4 such strategy.

5 **TITLE VI—OTHER**
6 **CONSIDERATIONS**

7 **SEC. 601. CYBERSECURITY PLAN.**

8 (a) IN GENERAL.—The Secretary, in collaboration
9 with the Director of the National Institute of Standards
10 and Technology, and in consultation with the Secretary
11 of Defense, the Administrator, and the heads of other rel-
12 evant Federal agencies, shall develop a cybersecurity plan
13 for reducing cybersecurity-related threats to the Depart-
14 ment of Commerce’s provision of space situational aware-
15 ness services and information.

16 (b) INCLUSION.—In developing the cybersecurity plan
17 under subsection (a), the Secretary should—

18 (1) identify cybersecurity risks to the provision
19 of space situational awareness services and informa-
20 tion, and proposed actions to prevent and mitigate
21 such risks;

22 (2) identify supply chain risks and proposed ac-
23 tions to prevent and mitigate such risks;

1 (3) consider any other issues the Secretary de-
2 termines appropriate to ensure the cybersecurity of
3 a civil space situational awareness capability;

4 (4) seek input from stakeholders, including
5 other relevant Federal Government agencies, private
6 industry, academia, and other relevant entities; and

7 (5) include a classified appendix, if necessary.

8 (c) TRANSMITTAL AND BRIEFING.—Not later than
9 one year after the date of the enactment of this Act, the
10 Secretary shall transmit to the appropriate committees of
11 Congress a copy of the cybersecurity plan under sub-
12 section (a) and, not later than 21 days after such trans-
13 mittal, provide to such committees an unclassified briefing
14 on such plan.

15 **SEC. 602. STUDY ON INTERNATIONAL COOPERATION IN**
16 **SPACE SITUATIONAL AWARENESS.**

17 (a) STUDY.—The Secretary, in consultation with the
18 Administrator and the heads of other relevant Federal
19 agencies, shall carry out a study on international coopera-
20 tion in space situational awareness. Such study shall—

21 (1) examine the extent to which the United
22 States is involved in and leading international co-
23 operation in space situational awareness;

24 (2) consider how other countries are approach-
25 ing space situational awareness, including the provi-

1 sion of space situational awareness services and in-
2 formation;

3 (3) identify the formal and informal agreements
4 that are in place to support international coopera-
5 tion in space situational awareness;

6 (4) identify how United States international re-
7 lations in space situational awareness can be
8 strengthened and cooperation improved; and

9 (5) identify the barriers, including technical and
10 policy issues, to improving such cooperation and
11 what steps can be taken to overcome such barriers.

12 (b) TRANSMITTAL.—Not later than 270 days after
13 the date of the enactment of this Act, the Secretary shall
14 transmit to the appropriate committees of Congress a copy
15 of the study described in subsection (a), together with a
16 Plan for implementing any recommended actions con-
17 tained in such study and for coordinating with inter-
18 national partners and entities on standards and sharing
19 of space situational awareness services and information,
20 including associated data.

21 **SEC. 603. REPORT ON INTERNATIONAL DATA SHARING**
22 **AGREEMENTS.**

23 Not later than 270 days after the date of the enact-
24 ment of this Act, the Secretary of Defense shall submit
25 to the appropriate committees of Congress a report on the

1 status and plans for international data sharing agree-
2 ments relating to the transition of certain space situa-
3 tional services and information in accordance with this
4 Act.

5 **SEC. 604. STUDY ON SPACE TRAFFIC COORDINATION.**

6 Not later than one year after the date of the enact-
7 ment of this Act, the Secretary, in consultation with the
8 heads of other relevant Federal agencies, shall submit to
9 the appropriate committees of Congress a study on how
10 the United States Government can most effectively facili-
11 tate space traffic coordination, and any organizational or
12 structural changes which Federal agencies would need to
13 undertake to establish capabilities for space traffic coordi-
14 nation.

15 **TITLE VII—GAO REVIEW**

16 **SEC. 701. GAO REVIEW.**

17 Not later than three years after the date of the enact-
18 ment of this Act, the Comptroller General of the United
19 States shall submit to the appropriate committees of Con-
20 gress a review of the status, performance, and progress
21 of activities carried out under titles III and IV.

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