

117TH CONGRESS
1ST SESSION

H. R. 2685

To direct the Assistant Secretary of Commerce for Communications and Information to submit to Congress a report examining the cybersecurity of mobile service networks, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

APRIL 20, 2021

Ms. ESHOO (for herself and Mr. KINZINGER) introduced the following bill;
which was referred to the Committee on Energy and Commerce

A BILL

To direct the Assistant Secretary of Commerce for Communications and Information to submit to Congress a report examining the cybersecurity of mobile service networks, 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,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Understanding Cyber-

5 security of Mobile Networks Act”.

1 **SEC. 2. REPORT ON CYBERSECURITY OF MOBILE SERVICE**

2 **NETWORKS.**

3 (a) IN GENERAL.—Not later than 1 year after the
4 date of the enactment of this Act, the Assistant Secretary,
5 in consultation with the Department of Homeland Secu-
6 rity, shall submit to Congress a report examining the cy-
7 bersecurity of mobile service networks and the vulner-
8 ability of such networks and mobile devices to cyberattacks
9 and surveillance conducted by adversaries.

10 (b) MATTERS TO BE INCLUDED.—The report re-
11 quired by subsection (a) shall include the following:

12 (1) An assessment of the degree to which pro-
13 viders of mobile service have addressed, are address-
14 ing, or have not addressed cybersecurity
15 vulnerabilities (including vulnerabilities the exploi-
16 tation of which could lead to surveillance conducted
17 by adversaries) identified by academic and inde-
18 pendent researchers, multistakeholder standards and
19 technical organizations, industry experts, and Fed-
20 eral agencies, including in relevant reports of—

21 (A) the National Telecommunications and
22 Information Administration;

23 (B) the National Institute of Standards
24 and Technology; and

25 (C) the Department of Homeland Security,
26 including—

5 (2) A discussion of—

(A) the degree to which customers (including consumers, companies, and government agencies) consider cybersecurity as a factor when considering the purchase of mobile service; and

(B) the commercial availability of tools, frameworks, best practices, and other resources for enabling such customers to evaluate risk and price tradeoffs.

15 (3) A discussion of the degree to which providers of mobile service have implemented cybersecurity best practices and risk assessment frameworks.

18 (4) An estimate and discussion of the prevalence
19 and efficacy of encryption and authentication
20 algorithms and techniques used in each of the following:

(A) Mobile service.

23 (B) Mobile communications equipment or
24 services.

(C) Commonly used mobile phones and other mobile devices.

(5) Barriers for providers of mobile service to adopt more efficacious encryption and authentication algorithms and techniques and to prohibit the use of older encryption and authentication algorithms and techniques with established vulnerabilities in mobile service, mobile communications equipment or services, and mobile phones and other mobile devices.

13 (6) The prevalence, usage, and availability of
14 technologies that authenticate legitimate mobile
15 service and mobile communications equipment or
16 services to which mobile phones and other mobile de-
17 vices are connected.

1 (c) CONSULTATION.—In preparing the report re-
2 quired by subsection (a), the Assistant Secretary shall, to
3 the degree practicable, consult with—

4 (1) the Commission;

5 (2) the National Institute of Standards and
6 Technology;

7 (3) the intelligence community;

8 (4) the Cybersecurity and Infrastructure Secu-
9 rity Agency of the Department of Homeland Secu-
10 rity;

11 (5) the Science and Technology Directorate of
12 the Department of Homeland Security;

13 (6) academic and independent researchers with
14 expertise in privacy, encryption, cybersecurity, and
15 network threats;

16 (7) participants in multistakeholder standards
17 and technical organizations (including the 3rd Gen-
18 eration Partnership Project and the Internet Engi-
19 neering Task Force);

20 (8) international stakeholders, in coordination
21 with the Department of State as appropriate;

22 (9) providers of mobile service;

23 (10) manufacturers, operators, and providers of
24 mobile communications equipment or services and
25 mobile phones and other mobile devices;

(11) developers of mobile operating systems and
communications software and applications; and

5 (d) SCOPE OF REPORT.—The Assistant Secretary
6 shall—

7 (1) limit the report required by subsection (a)
8 to mobile service networks;

21 (e) FORM OF REPORT.—The report required by sub-
22 section (a) shall be produced in unclassified form but may
23 contain a classified annex.

24 (f) AUTHORIZATION OF APPROPRIATIONS.—There is
25 authorized to be appropriated to carry out this section

1 \$500,000 for fiscal year 2021. Such amount is authorized
2 to remain available through fiscal year 2022.

3 (g) DEFINITIONS.—In this section:

4 (1) ADVERSARY.—The term “adversary” in-
5 cludes—

6 (A) any unauthorized hacker or other in-
7 truder into a mobile service network; and

8 (B) any foreign government or foreign
9 nongovernment person engaged in a long-term
10 pattern or serious instances of conduct signifi-
11 cantly adverse to the national security of the
12 United States or security and safety of United
13 States persons.

14 (2) ASSISTANT SECRETARY.—The term “Assist-
15 ant Secretary” means the Assistant Secretary of
16 Commerce for Communications and Information.

17 (3) ENTITY.—The term “entity” means a part-
18 nership, association, trust, joint venture, corpora-
19 tion, group, subgroup, or other organization.

20 (4) INTELLIGENCE COMMUNITY.—The term
21 “intelligence community” has the meaning given
22 that term in section 3 of the National Security Act
23 of 1947 (50 U.S.C. 3003).

24 (5) MOBILE COMMUNICATIONS EQUIPMENT OR
25 SERVICE.—The term “mobile communications equip-

1 ment or service” means any equipment or service
2 that is essential to the provision of mobile service.

3 (6) MOBILE SERVICE.—The term “mobile serv-
4 ice” means, to the extent provided to United States
5 customers, either or both of the following services:

6 (A) Commercial mobile service (as defined
7 in section 332(d) of the Communications Act of
8 1934 (47 U.S.C. 332(d))).

9 (B) Commercial mobile data service (as de-
10 fined in section 6001 of the Middle Class Tax
11 Relief and Job Creation Act of 2012 (47 U.S.C.
12 1401)).

13 (7) PERSON.—The term “person” means an in-
14 dividual or entity.

15 (8) UNITED STATES PERSON.—The term
16 “United States person” means—

17 (A) an individual who is a United States
18 citizen or an alien lawfully admitted for perma-
19 nent residence to the United States;

20 (B) an entity organized under the laws of
21 the United States or any jurisdiction within the
22 United States, including a foreign branch of
23 such an entity; or

24 (C) any person in the United States.

