

115 TH CONGRESS 1ST SESSION H.R. 3407

To amend chapter 301 of subtitle VI of title 49, United States Code, to require a cybersecurity plan for highly automated vehicles, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

July 26, 2017

Mr. Kinzinger (for himself and Ms. Clarke of New York) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To amend chapter 301 of subtitle VI of title 49, United States Code, to require a cybersecurity plan for highly automated vehicles, 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. CYBERSECURITY OF AUTOMATED DRIVING SYS-
- 4 TEMS.
- 5 (a) IN GENERAL.—Chapter 301 of subtitle VI of title
- 6 49, United States Code, is amended by inserting after sec-
- 7 tion 30129 (as added by section 4) the following new sec-
- 8 tion:

1 "§ 30130. Cybersecurity of automated driving systems

- 2 "(a) Cybersecurity Plan.—A manufacturer may
- 3 not sell, offer for sale, introduce or deliver for introduction
- 4 into commerce, or import into the United States, any high-
- 5 ly automated vehicle, vehicle that performs partial driving
- 6 automation, or automated driving system unless such
- 7 manufacturer has developed a cybersecurity plan that in-
- 8 cludes the following:
- 9 "(1) A written cybersecurity policy with respect 10 to the practices of the manufacturer for detecting 11 and responding to cyber attacks, unauthorized intru-12 sions, and false and spurious messages or vehicle
- control commands. This policy shall include—
- 14 "(A) a process for identifying, assessing, 15 and mitigating reasonably foreseeable 16 vulnerabilities from cyber attacks or unauthor-17 ized intrusions, including false and spurious 18 messages and malicious vehicle control com-19 mands; and
- "(B) a process for taking preventive and 20 21 corrective action to mitigate against 22 vulnerabilities in a highly automated vehicle or 23 a vehicle that performs partial driving automa-24 tion, including incident response plans, intru-25 sion detection and prevention systems that safe-26 guard key controls, systems, and procedures

- 3 1 through testing or monitoring, and updates to 2 such process based on changed circumstances. 3 "(2) The identification of an officer or other in-4 dividual of the manufacturer as the point of contact with responsibility for the management of cybersecu-5 6 rity. "(3) A process for limiting access to automated 7 8 driving systems. "(4) A process for employee training and super-9 10 vision for implementation and maintenance of the 11 policies and procedures required by this section, in-12 cluding controls on employee access to automated
- 14 "(b) Effective Date.—This section shall take ef-
- 15 fect 180 days after the date of enactment of this section.".
- 16 (b) Enforcement Authority.—Section
- 17 30165(a)(1) of title 49, United States Code, is amended
- 18 by inserting "30130," after "30127,".

driving systems.

- 19 (c) Clerical Amendment.—The analysis for chap-
- 20 ter 301 of subtitle VI of title 49, United States Code, is
- 21 amended by inserting after the item relating to section
- 22 30129 (as added by section 4) the following new item: "30130. Cybersecurity of automated driving systems.".
- 23 (d) Definitions.—Section 30102 of title 49, United
- 24 States Code, is amended—
- 25 (1) in subsection (a)—

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1	(A) by redesignating paragraphs (1)
2	through (13) as paragraphs (2) , (3) , (4) , (5) ,
3	(8), (9), (10), (11), (12), (13), (15), (16), and
4	(17), respectively;
5	(B) by inserting before paragraph (2) (as
6	so redesignated) the following:
7	"(1) 'automated driving system' means the
8	hardware and software that are collectively capable
9	of performing the entire dynamic driving task on a
10	sustained basis, regardless of whether such system is
11	limited to a specific operational design domain.";
12	(C) by inserting after paragraph (5) (as so
13	redesignated) the following:
14	"(6) 'dynamic driving task' means all of the
15	real time operational and tactical functions required
16	to operate a vehicle in on-road traffic, excluding the
17	strategic functions such as trip scheduling and selec-
18	tion of destinations and waypoints, and including—
19	"(A) lateral vehicle motion control via
20	steering;
21	"(B) longitudinal vehicle motion control
22	via acceleration and deceleration;
23	"(C) monitoring the driving environment
24	via object and event detection, recognition, clas-
25	sification, and response preparation;

1	"(D) object and event response execution;
2	"(E) maneuver planning; and
3	"(F) enhancing conspicuity via lighting,
4	signaling, and gesturing.
5	"(7) 'highly automated vehicle'—
6	"(A) means a motor vehicle equipped with
7	an automated driving system; and
8	"(B) does not include a commercial motor
9	vehicle (as defined in section 31101).";
10	(D) by inserting after paragraph (13) (as
11	so redesignated) the following:
12	"(14) 'operational design domain' means the
13	specific conditions under which a given driving auto-
14	mation system or feature thereof is designed to func-
15	tion."; and
16	(E) by adding at the end the following:
17	"(18) 'vehicle that performs partial driving au-
18	tomation' does not include a commercial motor vehi-
19	cle (as defined in section 31101)."; and
20	(2) by adding at the end the following:
21	"(c) Revisions to Certain Definitions.—
22	"(1) If SAE International (or its successor or-
23	ganization) revises the definition of any of the terms
24	defined in paragraph (1), (6), or (14) of subsection
25	(a) in Recommended Practice Report J3016, it shall

notify the Secretary of the revision. The Secretary shall publish a notice in the Federal Register to inform the public of the new definition unless, within 90 days after receiving notice of the new definition and after opening a period for public comment on the new definition, the Secretary notifies SAE International (or its successor organization) that the Secretary has determined that the new definition does not meet the need for motor vehicle safety, or is otherwise inconsistent with the purposes of this chapter. If the Secretary so notifies SAE International (or its successor organization), the existing definition in subsection (a) shall remain in effect.

"(2) If the Secretary does not reject a definition revised by SAE International (or its successor organization) as described in paragraph (1), the Secretary shall promptly make any conforming amendments to the regulations and standards of the Secretary that are necessary. The revised definition shall apply for purposes of this chapter. The requirements of section 553 of title 5 shall not apply to the making of any such conforming amendments.

"(3) Pursuant to section 553 of title 5, the Secretary may update any of the definitions in paragraph (1), (6), or (14) of subsection (a) if the Sec-

retary determines that materially changed circumstances regarding highly automated vehicles
have impacted motor vehicle safety such that the
definitions need to be updated to reflect such circumstances.".

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