

AMENDMENT TO
RULES COMMITTEE PRINT 119-33
OFFERED BY MR. BERGMAN OF MICHIGAN

At the end of subtitle B of title XV, add the following new section:

1 **SEC. 15___ . SECURE AND INTEROPERABLE DEFENSE COL-**
2 **LABORATION TECHNOLOGY.**

3 (a) **DEFINITIONS.**—In this section:

4 (1) The term “Chief Information Officer”
5 means the Chief Information Officer of the Depart-
6 ment of Defense.

7 (2) The term “collaboration technology” means
8 a software system or application that offers one or
9 more primary collaboration technology features.

10 (3) The term “Department” means the Depart-
11 ment of Defense.

12 (4) The term “end-to-end encryption” means
13 communications encryption in which data is
14 encrypted when being passed through a network
15 such that no party, other than the sender and each
16 intended recipient of the communication, can access
17 the decrypted communication, regardless of the

1 transport technology used and the intermediaries or
2 intermediate steps along the sending path.

3 (5) The term “identified standards” means the
4 standard, or set of standards, identified under sub-
5 section (b)(2).

6 (6) The term “interoperability” has the mean-
7 ing given the term in section 3601 of title 44,
8 United States Code.

9 (7) The term “open standard” means a stand-
10 ard, or a set of standards, that—

11 (A) is available for any individual to read
12 and implement;

13 (B) does not impose any royalty or other
14 fee for use; and

15 (C) can be certified for low or no cost to
16 users of the standard or set of standards.

17 (8) The term “primary collaboration technology
18 feature” means a technology feature or function
19 that—

20 (A) facilitates remote work or collaboration
21 within the Department;

22 (B) facilitates the work or collaboration de-
23 scribed in subparagraph (A) by providing
24 functionality that is core or essential, rather
25 than ancillary or secondary; and

1 (C) is identified by the Chief Information
2 Officer under subsection (b)(1).

3 (9) The term “standards-compatible collabora-
4 tion technology” means collaboration technology—

5 (A) each primary collaboration technology
6 feature of which is compatible with the identi-
7 fied standards for such a primary collaboration
8 technology feature; and

9 (B) that has demonstrated compliance
10 under subsection (d)(2).

11 (10) The term “voluntary consensus standard”
12 has the meaning given such term in Circular A–119
13 of the Office of Management and Budget entitled
14 “Federal Participation in the Development and Use
15 of Voluntary Consensus Standards and in Con-
16 formity Assessment Activities”, issued in revised
17 form on January 27, 2016.

18 (11) The term “third-party hosting server”
19 means any computer or software system which is not
20 directly operated and managed by the Department.

21 (b) IDENTIFYING STANDARDS FOR DEFENSE COL-
22 LABORATION TECHNOLOGY.—

23 (1) IDENTIFICATION OF FEATURES.—Not later
24 than 180 days after the date of the enactment of
25 this Act, the Chief Information Officer shall, in con-

1 sultation with such others as the Chief Information
2 Officer considers relevant, identify a list of primary
3 collaboration technology features, including—

4 (A) voice and video calling, including—

5 (i) calling between two individuals
6 within the Department (including any
7 agencies or departments within the De-
8 partment); and

9 (ii) calling between not less than three
10 individuals within the Department (includ-
11 ing any agencies or departments within the
12 Department);

13 (B) text-based messaging within the De-
14 partment (including any agencies or depart-
15 ments within the Department);

16 (C) file sharing within the Department (in-
17 cluding any agencies or departments within the
18 Department);

19 (D) live document editing within the De-
20 partment (including any agencies or depart-
21 ments within the Department);

22 (E) scheduling and calendaring within the
23 Department (including any agencies or depart-
24 ments within the Department); and

1 (F) any other technology feature or func-
2 tion that the Chief Information Officer con-
3 siders appropriate.

4 (2) IDENTIFICATION OF STANDARDS.—Not
5 later than two years after the date of the enactment
6 of this Act, the Chief Information Officer shall iden-
7 tify a standard, or set of standards, for collaboration
8 technology used by the Department that—

9 (A) for each primary collaboration tech-
10 nology feature, specifies interoperability proto-
11 cols, and any other protocol, format, require-
12 ment, or guidance required to create interoper-
13 able implementations of that feature, includ-
14 ing—

15 (i) protocols for applications to specify
16 and standardize security, including systems
17 for—

18 (I) identifying and authenticating
19 the individuals who are party to a
20 communication or collaboration task;

21 (II) controlling the attendance
22 and security settings of voice and
23 video calls; and

24 (III) controlling access and edit-
25 ing rights for shared documents; and

1 (ii) protocols for any ancillary feature
2 the Chief Information Officer identifies to
3 support the core primary collaboration
4 technology feature, including participation
5 features available within video meetings;

6 (B) to the extent possible, is based on open
7 standards;

8 (C) to the extent possible, is based on
9 standards planned, developed, established, or
10 coordinated using procedures consistent with
11 those for voluntary consensus standards;

12 (D) subject to paragraph (3), uses end-to-
13 end encryption technology;

14 (E) incorporates protocols, guidance, and
15 requirements based on best practices for the cy-
16 bersecurity of collaboration technology and col-
17 laboration technology features;

18 (F) to the extent practicable, integrates cy-
19 bersecurity technology designed to protect com-
20 munications from surveillance by foreign adver-
21 saries, including technology to protect commu-
22 nications metadata from traffic analysis, with
23 requirements developed in consultation with
24 such others as the Chief Information Officer
25 considers relevant;

1 (G) to the extent practicable, is usable by,
2 or offers options for, users with internet con-
3 nections that have low-bandwidth or high-la-
4 tency;

5 (H) subject to paragraph (5), with respect
6 to the use of primary collaboration technology
7 features, adds requirements to the identified
8 standards that enables compliance with record
9 retention and disclosure obligations, and permit
10 internal lawful access for law enforcement pur-
11 poses; and

12 (I) to the extent practicable, is compatible
13 with all relevant information management rules,
14 regulations, and policies, without the need for
15 waivers or exceptions to such requirements.

16 (3) END-TO-END ENCRYPTION REQUIRE-
17 MENTS.—

18 (A) IN GENERAL.—The end-to-end
19 encryption technology selected as part of the
20 identified standards under paragraph (2), to
21 the extent practicable, shall ensure that collabo-
22 ration and communications content data cannot
23 be compromised if a third-party hosting server
24 is compromised.

1 (B) END-TO-END ENCRYPTION NOT AVAIL-
2 ABLE.—Subject to subparagraph (C), if the
3 Chief Information Officer has identified an an-
4 cillary feature or function for a primary collabo-
5 ration technology feature and is unable to iden-
6 tify a standard, or set of standards, that uses
7 end-to-end encryption and that is compatible
8 with such ancillary feature or function, the
9 Chief Information Officer may identify a stand-
10 ard or set of standards that does not utilize
11 end-to-end encryption that may be used to sup-
12 port the ancillary feature or function.

13 (C) END-TO-END ENCRYPTION BY DE-
14 FAULT.—

15 (i) IN GENERAL.—Subject to clause
16 (ii), the Chief Information Officer shall en-
17 sure that, with respect to the use of stand-
18 ards-compatible collaboration technology
19 that offers an ancillary technology feature
20 or function described in subparagraph
21 (B)—

22 (I) the ancillary feature or func-
23 tion is disabled by default; and

1 (II) the primary collaboration
2 technology feature uses end-to-end
3 encryption.

4 (ii) EXCEPTION.—Clause (i) shall not
5 apply to the use of a primary collaboration
6 technology feature with an ancillary fea-
7 ture or function described in subparagraph
8 (B) if—

9 (I) the Chief Information Officer
10 has enabled the use of the ancillary
11 feature or function within the Depart-
12 ment;

13 (II) each user of the ancillary
14 feature or function has been notified
15 of the additional cybersecurity and
16 surveillance risks accompanying the
17 use of the ancillary feature or func-
18 tion;

19 (III) each user of the ancillary
20 feature or function has explicitly
21 opted into the use of the ancillary fea-
22 ture or function; and

23 (IV) the primary collaboration
24 technology feature offers a means for
25 the Chief Information Officer to col-

1 lect aggregate statistics about the use
2 of the options that are not end-to-end
3 encrypted.

4 (D) ENCRYPTION STATUS TRANS-
5 PARENCY.—To the extent practicable, the Chief
6 Information Officer shall identify protocols,
7 guidance, or requirements to ensure that stand-
8 ards-compatible collaboration technology pro-
9 vides users the ability to easily see the
10 encryption status of any collaboration feature in
11 use.

12 (4) CONSIDERATIONS.—In identifying the iden-
13 tified standards, the Chief Information Officer shall
14 consider secure, standards-based technologies adopt-
15 ed by a component or element of the Department,
16 allies of the United States, State and local govern-
17 ments, and the private sector.

18 (5) COMPLIANCE WITH RECORD-KEEPING RE-
19 QUIREMENTS.—The Chief Information Officer shall
20 ensure, to the greatest extent practicable, that the
21 requirements added to the identified standards to
22 achieve compliance with record retention and disclo-
23 sure obligations, and to permit internal lawful access
24 for law enforcement purposes—

1 (A) preserve the security benefits of end-
2 to-end encryption, including that only specifi-
3 cally authorized personnel of the Department
4 can access retained records of collaboration;

5 (B) avoid storing information, like
6 plaintext messages or decryption keys, that
7 would compromise the security of communica-
8 tions content data if a third-party hosting serv-
9 er were compromised;

10 (C) minimize other cybersecurity risks; and

11 (D) require that all users party to a com-
12 munication be notified that the communications
13 content data is being saved for archival pur-
14 poses.

15 (6) WAIVER TO EXTEND DEADLINE FOR STAND-
16 ARDS IDENTIFICATION.—

17 (A) IN GENERAL.—If the Chief Informa-
18 tion Officer determines that it is infeasible to
19 identify a standard for a particular primary col-
20 laboration technology feature not later than two
21 years after the date of enactment of this Act,
22 the Chief Information Officer may issue a waiv-
23 er to extend the deadline for the identification
24 of such standard for the particular primary col-
25 laboration technology feature.

1 (B) WAIVER REQUIREMENTS.—A waiver
2 described in subparagraph (A) shall include—

3 (i) the particular primary collabora-
4 tion technology feature for which the waiv-
5 er is issued; and

6 (ii) an explanation of the reason for
7 which it is currently infeasible to identify
8 a standard meeting the requirements under
9 paragraph (2).

10 (C) WAIVER DURATION.—A waiver issued
11 by the Chief Information Officer under sub-
12 paragraph (A) shall be valid for one year.

13 (D) WAIVER RE-ISSUANCE.—The Chief In-
14 formation Officer may re-issue a waiver under
15 paragraph (1) for a primary collaboration tech-
16 nology feature not more than ten times.

17 (e) REQUIREMENT TO USE IDENTIFIED STAND-
18 ARDS.—

19 (1) IN GENERAL.—On and after the date that
20 is four years after the date on which the Chief Infor-
21 mation Officer identifies the identified standards,
22 the head of a component or element of the Depart-
23 ment may only procure collaboration technology if
24 the collaboration technology is standards-compatible
25 collaboration technology.

1 (2) EXCEPTION FOR PARTICULAR COLLABORA-
2 TION SYSTEMS.—The following collaboration systems
3 shall not be subject to the requirements under para-
4 graph (1):

5 (A) Email.

6 (B) Voice services, as defined in section
7 227(e) of the Communications Act of 1934 (47
8 U.S.C. 227(e)).

9 (C) National security systems, as defined
10 in section 11103(a) of title 40, United States
11 Code.

12 (3) EXCEPTION FOR POST-PURCHASE CONFIGU-
13 RATION.—If a software product or a device with a
14 software operating system has built-in primary col-
15 laboration technology features that are not compat-
16 ible with the identified standards, and the Chief In-
17 formation Officer cannot procure the product or de-
18 vice with those primary collaboration technology fea-
19 tures disabled before purchase, the Chief Informa-
20 tion Officer may comply with this subsection by dis-
21 abling the primary collaboration technology features
22 that are not compatible with the identified standards
23 before provisioning the software product or device to
24 an employee of the Department.

25 (4) CERTIFICATION FOR WAIVER.—

1 (A) CERTIFICATION.—The Chief Informa-
2 tion Officer may issue a certification for waiver
3 of the prohibition under paragraph (1) with re-
4 spect to a particular collaboration technology.

5 (B) REQUIREMENT.—A certification under
6 subparagraph (A) shall cite not less than one
7 specific reason, which shall not be a generalized
8 national security claim, for which the Depart-
9 ment is unable to procure standards-compatible
10 collaboration technology that meets the needs of
11 the Department.

12 (C) SUBMISSION.—The Chief Information
13 Officer shall submit to the congressional de-
14 fense committees a copy of each certification
15 issued under subparagraph (A).

16 (D) PUBLISHING.—

17 (i) ACCESSIBLE POSTING.—The Chief
18 Information Officer shall publish a copy of
19 each certification issued under subpara-
20 graph (A) on the website of the Depart-
21 ment.

22 (ii) NATIONAL SECURITY.—The Sec-
23 retary of Defense may waive the require-
24 ment of subclause (i) on a case-by-case
25 basis if the Secretary certifies, in writing,

1 to the congressional defense committees
2 that publicly posting the waiver described
3 in subparagraph (A) would harm the na-
4 tional security of the United States.

5 (E) DURATION; RENEWAL.—A certification
6 with respect to a particular collaboration tech-
7 nology under this paragraph shall result in a
8 waiver of the prohibition for that particular col-
9 laboration technology under paragraph (1)(B)
10 that—

11 (i) shall be valid for a four-year pe-
12 riod; and

13 (ii) may be renewed by the Chief In-
14 formation Officer, after conducting a new
15 assessment of available standards-collabo-
16 ration technology.

17 (d) ATTESTATION OF COMPLIANCE AND INTEROPER-
18 ABILITY TEST RESULTS.—

19 (1) INTEROPERABILITY TEST.—Not later than
20 one year after the date on which the Chief Informa-
21 tion Officer identifies the identified standards, the
22 Chief Information Officer shall identify third-party
23 online interoperability test suites, including not less
24 than one free test suite, or develop a free online

1 interoperability test suite if no suitable third-party
2 test suite can be identified, which shall—

3 (A) enable any entity to test whether an
4 implementation of a primary collaboration tech-
5 nology feature has interoperability with the
6 identified standards; and

7 (B) offer an externally-shareable version of
8 the interoperability test results that can be pro-
9 vided as part of a demonstration of compliance
10 under paragraph (2).

11 (2) DEMONSTRATION OF COMPLIANCE.—In
12 order to demonstrate that a collaboration technology
13 is a standards-compatible collaboration technology,
14 the provider of the collaboration technology shall
15 provide to the Chief Information Officer—

16 (A) an attestation that includes an affir-
17 mation that—

18 (i) each primary collaboration tech-
19 nology feature of the collaboration tech-
20 nology, by default—

21 (I) uses the relevant standard or
22 standards from the identified stand-
23 ards for the primary collaboration
24 technology feature to interoperate
25 with other instances of standards-

1 compatible collaboration technology;
2 and

3 (II) follows all guidance and re-
4 quirements from the identified stand-
5 ards that is applicable to the primary
6 collaboration technology feature; and

7 (ii) the collaboration technology en-
8 ables the Chief Information Officer to dis-
9 able the ability of users to use modes of
10 the collaboration technology that are not
11 compatible with the identified standards;
12 and

13 (B) interoperability test results described
14 in paragraph (1)(B) that demonstrate inter-
15 operability with the identified standards for
16 each primary collaboration technology feature
17 the collaboration technology offers.

18 (3) PUBLICATION OF STANDARDS-COMPATIBLE
19 COLLABORATION TECHNOLOGY VENDORS.—Upon a
20 review of the materials submitted under paragraph
21 (2), the Chief Information Officer shall publish on
22 the website of the Department a list of each collabo-
23 ration technology that the Chief Information Officer
24 has determined to be a standards-compatible collabo-
25 ration technology.

1 (4) RULE OF CONSTRUCTION.—Nothing in this
2 subsection shall be construed to require a collabora-
3 tion technology vendor to directly test the interoper-
4 ability of a primary collaboration technology feature
5 with the product of another collaboration technology
6 vendor.

7 (e) CYBERSECURITY REVIEWS OF COLLABORATION
8 TECHNOLOGY PRODUCTS.—

9 (1) IN GENERAL.—Not later than four years
10 after the date on which the Chief Information Offi-
11 cer identifies the identified standards, the Chief In-
12 formation Officer shall conduct security reviews of
13 collaboration technology products used within the
14 Department, to identify any cybersecurity vulner-
15 ability or threat relating to those collaboration tech-
16 nology products.

17 (2) SELECTION AND PRIORITIZATION.—With
18 respect to collaboration technology products selected
19 for security reviews under paragraph (1), the Chief
20 Information Officer shall determine the number of
21 products, the specific products, and the prioritization
22 of products for security review, considering factors
23 including—

1 (A) the total number of users across the
2 Department using a collaboration technology
3 product; and

4 (B) an estimation of the likelihood of a col-
5 laboration technology product being targeted
6 for hacking.

7 (3) REPORT.—Not later than 30 days after the
8 date on which the Chief Information Officer con-
9 ducts security reviews under paragraph (1), the
10 Chief Information Officer shall submit to the con-
11 gressional defense committees a report on the results
12 of the security reviews.

13 (f) UPDATES TO IDENTIFIED STANDARDS.—

14 (1) SOLICITATION OF FEEDBACK.—The Chief
15 Information Officer shall regularly solicit feedback
16 from within the Department to identify areas of im-
17 provement of the identified standards, desired col-
18 laboration technology features, and barriers to the
19 adoption of standards-compatible collaboration tech-
20 nology.

21 (2) UPDATES AUTHORIZED.—The Chief Infor-
22 mation Officer may update the identified standards
23 based on feedback received under paragraph (1),
24 evolutions in collaboration technology feature offer-

1 ings, cybersecurity best practices, or any other factor
2 the Chief Information Officer determines.

3 (g) RULE OF CONSTRUCTION.—Nothing in this sec-
4 tion shall be construed—

5 (1) to limit the ability of the Department to
6 communicate with other entities using standards-
7 compatible collaboration technology;

8 (2) to limit the ability of other entities to use
9 the identified standards or standards-compatible col-
10 laboration technology;

11 (3) to limit the ability of the Department to
12 apply, implement, and enforce other information
13 management policies, regulations, and requirements
14 with respect to standards-compatible collaboration
15 technology;

16 (4) to affect any of the authorities of the Direc-
17 tor of National Intelligence or the Office of the Di-
18 rector of National Intelligence; or

19 (5) to affect information technology-related pro-
20 curement for the intelligence community (as defined
21 in section 3 of the National Security Act of 1947
22 (50 U.S.C. 3003)).

