111TH CONGRESS 2D SESSION **S. 3731**

To require the National Telecommunications and Information Administration to conduct a competition to award grants for the development of nonstationary radio over Internet protocol devices that support mission-critical broadband voice and data communications of public safety personnel, and for other purposes.

IN THE SENATE OF THE UNITED STATES

August 5, 2010

Mr. WARNER (for himself and Mr. WICKER) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

A BILL

- To require the National Telecommunications and Information Administration to conduct a competition to award grants for the development of nonstationary radio over Internet protocol devices that support mission-critical broadband voice and data communications of public safety personnel, 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 "Next Generation Pub-

5 lic Safety Device Act of 2010".

SEC. 2. PUBLIC SAFETY ROIP DEVICE DEVELOPMENT COM PETITION.

3 (a) ESTABLISHMENT.—The Assistant Secretary, in coordination with the Commission, the Director of the Na-4 5 tional Institute of Standards and Technology, and the Director of the Office of Emergency Communications in the 6 7 Department of Homeland Security, shall conduct a com-8 petition to award grants to eligible entities for the develop-9 ment of nonstationary radio over Internet protocol devices 10 that support mission-critical broadband voice and data 11 communications of public safety personnel.

12 (b) WORKING GROUP.—

13 (1) COMPOSITION.—The Assistant Secretary
14 shall establish a working group composed of—

(A) a representative of the Commission,
the Director of the National Institute of Standards and Technology, and the Director of the
Office of Emergency Communications in the
Department of Homeland Security; and

20 (B) such other public or private stake21 holders with technical expertise in the develop22 ment of emergency communications devices as
23 the representative of the Commission considers
24 appropriate.

25 (2) DUTIES.—The working group shall provide
26 the Assistant Secretary with advice and technical as•S 3731 IS

1	sistance in conducting the competition under this
2	section.
3	(3) SUPPORT SERVICES.—The Assistant Sec-
4	retary shall provide the working group with the ad-
5	ministrative, professional, and technical support re-
6	quired by the working group to carry out its duties.
7	(4) DURATION.—The working group shall ter-
8	minate not later than the earlier of—
9	(A) the date that is 15 days after the date
10	of the submission by the Comptroller General of
11	the United States of the report required by sub-
12	section $(e)(3)$; or
13	(B) the date that is 6 years after the date
14	of the enactment of this section.
15	(c) Device Requirements.—
16	(1) IN GENERAL.—The Assistant Secretary, in
17	coordination with the working group, shall establish
18	requirements for RoIP devices developed, in whole or
19	in part, using a grant under this section.
20	(2) CONTENT.—The requirements established
21	under paragraph (1) shall include—
22	(A) an identification of specific commu-
23	nication needs of public safety personnel and
24	any corresponding characteristics or capabilities
25	of the devices for meeting such needs; and

1	(B) such characteristics and capabilities of
2	the devices as will ensure—
3	(i) delivery of communications in a
4	real-time manner;
5	(ii) reliability of the delivery of com-
6	munications under adverse conditions;
7	(iii) sufficient clarity of transmission
8	to permit public safety personnel to easily
9	comprehend the content of communica-
10	tions; and
11	(iv) full interoperability among dif-
12	ferent types and brands of RoIP devices
13	used by public safety personnel.
14	(d) Grant Process.—
15	(1) 3-STAGE PROCESS.—The Assistant Sec-
16	retary shall establish a 3-stage process for awarding
17	grants to eligible entities under this section.
18	(2) Award of grants.—The Secretary may
19	only award a grant in a stage to an eligible entity
20	that—
21	(A) submits a bid meeting the specifica-
22	tions developed under paragraph (3) for such
23	stage;
24	(B) provides the Assistant Secretary with
25	an assurance that the eligible entity will use

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1	grant funds to develop a RoIP device in accord-
2	ance with the specifications included in such
3	bid;
4	(C) in the case of a grant in stage 1 or 2
5	for the development of a device, provides the
6	Assistant Secretary with an assurance that the
7	eligible entity will submit in good faith a bid for
8	a grant in stage 2 or 3, respectively, for the de-
9	velopment of such device; and
10	(D) in the case of a grant in stage 2 or 3
11	for the development of a device, has received a
12	grant in stage 1 or 2, respectively, for the de-
13	velopment of such device.
14	(3) BID SPECIFICATIONS FOR EACH STAGE.—
15	(A) IN GENERAL.—The Assistant Sec-
16	retary shall develop specifications for bids sub-
17	mitted for grants in each stage and shall ensure
18	that such specifications are—
19	(i) based on the requirements estab-
20	lished under subsection $(c)(1)$; and
21	(ii) provide for reasonable progress
22	from stage to stage toward the commercial
23	production of RoIP devices that meet such
24	requirements by eligible entities receiving
25	grants in stage 3.

1	(B) Specifications for stage 1.—The
2	specifications for stage-1 bids shall include a re-
3	quirement that the eligible entity provide the
4	Assistant Secretary with an assurance that the
5	eligible entity will use grant funds to develop
6	the prototype referred to in subparagraph (C)(i)
7	for submission with the stage-2 bid of the enti-
8	ty.
9	(C) Specifications for stage 2.—The
10	specifications for stage-2 bids shall include the
11	following:
12	(i) A requirement that the eligible en-
13	tity submit a prototype of the device being
14	developed.
15	(ii) A requirement that the eligible en-
16	tity provide the Assistant Secretary with
17	an assurance that the eligible entity will
18	use grant funds to develop the plan re-
19	ferred to in subparagraph (D)(i) for sub-
20	mission with the stage-3 bid of the entity
21	and to prepare to commercially produce
22	the device in accordance with the plan.
23	(iii) A requirement that the eligible
24	entity submit such information as the As-
25	sistant Secretary may require regarding

1	the capability of the eligible entity to com-
2	mercially produce, distribute, and market
3	the device.
4	(D) Specifications for stage 3.—The
5	specifications for stage-3 bids shall include the
6	following:
7	(i) A requirement that the eligible en-
8	tity submit a plan for the commercial pro-
9	duction of the device by the entity that
10	demonstrates that the device, as produced,
11	will meet the requirements established
12	under subsection $(c)(1)$.
13	(ii) A requirement that the eligible en-
14	tity provide the Assistant Secretary with
15	an assurance that the eligible entity will—
16	(I) use grant funds to commer-
17	cially produce the device in accordance
18	with the plan submitted under clause
19	(i); and
20	(II) apply for award of the label
21	under section 3.
22	(iii) A requirement that the eligible
23	entity submit such information as the As-
24	sistant Secretary may require regarding
25	the capability of the eligible entity to com-

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1	mercially produce, distribute, and market
2	the device.
3	(4) Additional factors for consider-
4	ATION.—In making a grant under this section, the
5	Assistant Secretary shall consider, in addition to the
6	requirements established under subsection $(c)(1)$ and
7	the bid specifications established under paragraph
8	(3) for the stage involved, the following factors:
9	(A) The extent to which the grant will en-
10	courage competition in the market for the de-
11	vice being developed.
12	(B) The estimated cost at which public
13	safety personnel will be able to purchase such
14	device.
15	(C) The potential contribution to public
16	safety of such device.
17	(D) Whether such device is capable of uti-
18	lizing, in addition to the portions of the electro-
19	magnetic spectrum listed in subparagraphs (A)
20	and (B) of section $4(8)$, the following portions
21	of the spectrum:
22	(i) Public Safety Broadband License,
23	Guard Band (the electromagnetic spectrum
24	between 768 and 769 megahertz, inclusive,

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1	and between 798 and 799 megahertz, in-
2	clusive).
3	(ii) Public Safety, Narrowband Net-
4	work (the electromagnetic spectrum be-
5	tween 769 and 775 megahertz, inclusive,
6	and between 799 and 805 megahertz, in-
7	clusive).
8	(E) Such other factors as the Assistant
9	Secretary considers appropriate to promote the
10	public interest.
11	(5) PRIORITY.—In making a grant under this
12	section, the Assistant Secretary shall give priority to
13	bids for the development of devices that are inter-
14	operable across—
15	(A) multiple commercial bands of the elec-
16	tromagnetic spectrum; and
17	(B) multiple communications profiles.
18	(6) TIMING.—The Assistant Secretary shall
19	structure the timing of each stage as the Assistant
20	Secretary considers appropriate, but the Assistant
21	Secretary shall release the solicitation for stage-1
22	bids not later than 8 months after the date of the
23	enactment of this section and shall ensure that all
24	grants in stage 3 have been awarded not later than

1	4 years after the date of the award of the 1st grant
2	in stage 1.
3	(7) Number and amount of grants.—
4	(A) NUMBER.—
5	(i) 1 GRANT PER DEVICE PER
6	STAGE.—The Assistant Secretary may not
7	award more than 1 grant per device per
8	stage.
9	(ii) NUMBER OF STAGE-3 GRANTS.—
10	The Assistant Secretary shall award not
11	fewer than 4 and not more than 7 grants
12	in stage 3.
13	(B) Amount.—
14	(i) PER STAGE.—A grant for the de-
15	velopment of a device may not exceed
16	\$4,000,000 per stage.
17	(ii) PER DEVICE.—The Assistant Sec-
18	retary may not award more than a total of
19	\$8,000,000 in all 3 stages for the develop-
20	ment of a single device.
21	(8) Consultation with working group.—
22	The Assistant Secretary shall consult with the work-
23	ing group in carrying out this subsection.
24	(e) GAO AUDIT.—

1	(1) IN GENERAL.—The Comptroller General of
2	the United States shall conduct an audit of the com-
3	petition conducted under this section.
4	(2) Factors for evaluation.—In conducting
5	such audit, the Comptroller General shall evaluate
6	the following:
7	(A) The extent to which grants under this
8	section were awarded on the basis of the merits
9	of the bids submitted, including whether the re-
10	quirements established under subsection $(c)(1)$
11	were sufficient to ensure that the devices devel-
12	oped with such grants adequately support mis-
13	sion-critical broadband voice and data commu-
14	nications of public safety personnel.
15	(B) The extent to which the grants encour-
16	aged competition in the market for the devices.
17	(C) The effect of the grants on the cost at
18	which public safety personnel are able to pur-
19	chase the devices.
20	(D) The contribution to public safety of
21	the devices.
22	(E) Such other factors as the Comptroller
23	General considers appropriate.
24	(3) Report to congress.—Not later than 5
25	years after the date of the enactment of this section,

the Comptroller General shall submit to Congress a
 report on the findings of such audit.

3 SEC. 3. AWARD OF LABEL BY FCC.

4 (a) IN GENERAL.—The Commission shall establish a
5 voluntary labeling program to identify nonstationary RoIP
6 devices that meet such criteria as the Commission con7 siders appropriate for the support of mission-critical
8 broadband voice and data communications of public safety
9 personnel.

10 (b) ESTABLISHMENT OF LABEL.—Under such program, the Commission shall determine a name and design 11 12 for a label (in this section referred to as the "label") for 13 any RoIP device that meets the criteria described in subsection (a) and shall take the necessary steps to register 14 15 the label as a mark under the Act entitled "An Act to provide for the registration and protection of trademarks 16 17 used in commerce, to carry out the provisions of certain international conventions, and for other purposes", ap-18 proved March 17, 1946 (commonly referred to as the 19 20Trademark Act of 1946; 15 U.S.C. 1051 et seq.).

21 (c) AWARD OF LABEL.—

(1) APPLICATION.—Under the program, the
Commission shall establish a process under which an
entity manufacturing, marketing, or selling a RoIP

device may apply for the award of the label for such
 device.

3 (2) AWARD.—Upon application for a device
4 under paragraph (1), the Commission shall award
5 the label to such device if the Commission deter6 mines that the device meets the criteria described in
7 subsection (a).

8 (3) EFFECT.—An entity manufacturing, mar-9 keting, or selling a RoIP device awarded the label 10 may display the label and otherwise indicate that the 11 device has been awarded the label on the device and 12 in or on any materials accompanying the device or 13 any advertising with respect to the device.

(d) REVISION OF CRITERIA.—The Commission shall
periodically review the criteria described in subsection (a)
and revise the criteria as the Commission considers appropriate.

18 (e) ANNUAL COMPLIANCE CERTIFICATION.—

(1) IN GENERAL.—An entity displaying or otherwise indicating that a RoIP device has been
awarded the label shall annually certify to the Commission that the device continues to meet the criteria
described in subsection (a), including any revisions
to the criteria since the label was awarded.

1	(2) WITHDRAWAL OF AWARD OF LABEL.—The
2	Commission shall withdraw the award of the label
3	with respect to a device if—
4	(A) for a year, a certification required by
5	paragraph (1) for the device is not submitted
6	by any of the entities required to submit such
7	certification; or
8	(B) the Commission otherwise finds that
9	the device no longer meets the criteria described
10	in subsection (a), including any revisions to the
11	criteria since the label was awarded.
12	(f) Regulations.—The Commission may promul-
13	gate regulations to promote the effective use of the label
14	and to prevent the misuse of the label.
15	(g) Online Database.—The Commission shall
16	maintain an electronic database of the devices for which
17	the award of the label is in effect and shall make such
18	database publicly available on an appropriate Internet
19	website.
20	SEC. 4. DEFINITIONS.
21	In this Act:
22	(1) Assistant secretary.—The term "Assist-
23	ant Secretary" means the Assistant Secretary of
24	Commerce for Communications and Information.

(2) BROADBAND.—The term "broadband" has
 the same meaning as under the Broadband Tech nology Opportunities Program established under sec tion 6001 of the American Recovery and Reinvest ment Act of 2009 (47 U.S.C. 1305).

6 (3) COMMISSION.—The term "Commission"
7 means the Federal Communications Commission.

COMMUNICATIONS PROFILE.—The term 8 (4)"communications profile" means a configuration of 9 10 technology or equipment that supports broadband 11 communications by radio through the public 12 switched telephone network, the Internet, or any 13 other public network. The radio-air interface con-14 figuration used by a particular communications pro-15 file is part of such profile and is one of the charac-16 teristics that distinguishes such profile from a dif-17 ferent communications profile. A communications 18 profile can be implemented using radio equipment 19 designed to support specific, fixed profiles or radio 20 equipment capable of supporting an indefinite num-21 ber of profiles through software programming 22 changes.

(5) ELIGIBLE ENTITY.—The term "eligible entity" means an entity that submits a bid for a grant
under section 2.

MISSION-CRITICAL.—The term "mission-1 (6)2 critical", used with respect to communications be-3 tween 2 or more public safety personnel, means that, 4 in order for such personnel to protect life or prop-5 erty or the safety of such personnel, such commu-6 nications must be delivered in a real-time manner 7 and with sufficient quality and clarity for easy com-8 prehension by such personnel, regardless of the con-9 ditions under which the communications are sent or 10 received.

(7) PUBLIC SAFETY PERSONNEL.—The term
"public safety personnel" means any Federal, State,
or local law enforcement officer, firefighter, or provider of emergency medical services or communications center personnel.

16 (8) RADIO OVER INTERNET PROTOCOL DEVICE 17 OR ROIP DEVICE.—The term "radio over Internet 18 protocol device" or "RoIP device" means a device 19 that is capable of passing audio and other control 20 functions of a radio system across an Internet pro-21 tocol-enabled network utilizing, at a minimum, the 22 following portions of the electromagnetic spectrum:

23 (A) D Block (the electromagnetic spectrum
24 between 758 and 763 megahertz, inclusive, and
25 between 788 and 793 megahertz, inclusive).

1	(B) Public Safety Broadband Network (the
2	electromagnetic spectrum between 763 and 768
3	megahertz, inclusive, and between 793 and 798
4	megahertz, inclusive).

5 SEC. 5. FUNDING.

6 (a) PUBLIC SAFETY COMMUNICATIONS DEVICES7 FUND.—

8 (1) ESTABLISHMENT.—There is established in
9 the Treasury of the United States a fund to be
10 known as the Public Safety Communications Devices
11 Fund.

(2) PURPOSE.—The Assistant Secretary and 12 13 the Commission shall use the funds deposited in the 14 Public Safety Communications Devices Fund to 15 carry out sections 2 and 3, respectively. Of such 16 funds, \$1,000,000 in fiscal year 2011 and \$333,000 17 in each of the fiscal years 2012 through 2014 shall 18 be available to the Assistant Secretary for adminis-19 tration of the grant program established under sec-20 tion 2. If the Assistant Secretary does not use the 21 full amount available for administration in a fiscal 22 year, the remainder of such amount shall be avail-23 able to the Assistant Secretary for administration of 24 the grant program in any fiscal year prior to fiscal 25 year 2016.

1 (3) CREDIT.—

(A) BORROWING AUTHORITY.—The Assistant Secretary and the Commission may borrow
from the general fund of the Treasury beginning on October 1, 2010, such sums as may be
necessary, but not to exceed a total of
\$70,000,000, to implement sections 2 and 3, respectively.

9 (B) REIMBURSEMENT.—The Secretary of 10 the Treasury shall reimburse the general fund 11 of the Treasury, without interest, for any 12 amounts borrowed under subparagraph (A) as 13 funds are deposited into the Public Safety Com-14 munications Devices Fund, but in no case later 15 than September 30, 2015.

(b) DEPOSITS.—Notwithstanding subparagraphs (A)
and (D) of paragraph (8) of section 309(j) of the Communications Act of 1934 (47 U.S.C. 309(j)), the Secretary
of the Treasury shall—

(1) deposit in the Public Safety Communications Devices Fund \$70,000,000 of the proceeds (including deposits and upfront payments from successful bidders) from the auction of spectrum under
such section during the period beginning on October
1, 2012, and ending on September 30, 2015; and

(2) make the funds deposited under paragraph
 (1) available to the Assistant Secretary and the
 Commission without further appropriation.

4 (c) TRANSFER OF UNUSED FUNDS.—The Secretary
5 of the Treasury shall transfer to the general fund of the
6 Treasury any funds remaining in the Public Safety Com7 munications Devices Fund after September 30, 2015.

8 (d) EXTENSION OF AUCTION AUTHORITY.—Section
9 309(j)(11) of the Communications Act of 1934 (47 U.S.C.
10 309(j)(11)) is amended by striking "2012" and inserting
11 "2015".

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