Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:	* 2. Type of Application:	* If Revision, select appropriate letter(s):
☐ Preapplication	☒ New	
☒ Application	☐ Continuation	* Other (Specify)
☐ Changed/Corrected Application	☐ Revision	

* 3. Date Received:	4. Applicant Identifier:
Completed by Grants.gov upon submission	

5a. Federal Entity Identifier:	* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State: 02/06/2013	7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: Maryland Department of Information Technology

* b. Employer/Taxpayer Identification Number (EIN/TIN):	* c. Organizational DUNS:
526002033	961890741

d. Address:

* Street1: 45 Calvert Street
Street2:
* City: Annapolis
County:
* State: MD: Maryland
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 21401-1994

e. Organizational Unit:

Department Name:	Division Name:
Operations Department	Office of the State CIO

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Mr.
* First Name: Ray
Middle Name:
* Last Name: Lehr
Suffix:

Title: Statewide Interoperability Director (SWIC)

Organizational Affiliation:

Maryland State Police Statewide Interoperability PMO

* Telephone Number: 410-533-4610	Fax Number:

* Email: ray.lehr@maryland.gov

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9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

National Telecommunications and Information Admini

11. Catalog of Federal Domestic Assistance Number:

11.549

CFDA Title:

State and Local Implementation Grant Program

* 12. Funding Opportunity Number:

2013-NTIA-SLIGP-01

* Title:

State and Local Implementation Grant Program (SLIGP)

13. Competition Identification Number:

2013-NTIA-SLIGP-01

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

State of Maryland
23 counties and Baltimore City
157 municipalities

* 15. Descriptive Title of Applicant's Project:

Maryland Broadband Planning and Implementation Project

Attach supporting documents as specified in agency instructions.

Add Attachments	Delete Attachments	View Attachments

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16. Congressional Districts Of:

* a. Applicant   MD-001   * b. Program/Project   MD-all

Attach an additional list of Program/Project Congressional Districts if needed.

[   ]   Add Attachment   Delete Attachment   View Attachment

17. Proposed Project:

* a. Start Date: 07/01/2013   * b. End Date: 06/30/2016

18. Estimated Funding ($):

* a. Federal	1,985,361.00
* b. Applicant	
* c. State	497,140.00
* d. Local	
* e. Other	
* f. Program Income	
* g. TOTAL	2,482,501.00

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

[X] a. This application was made available to the State under the Executive Order 12372 Process for review on   03/15/2013

[ ] b. Program is subject to E.O. 12372 but has not been selected by the State for review.

[ ] c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

[ ] Yes   [X] No   [Explanation]

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

[X] ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:	Ms.	* First Name:	Lori

Middle Name: [   ]

* Last Name: Stone

Suffix: [   ]

* Title: Analyst

* Telephone Number 443-829-6849   Fax Number:

* Email: lori.stone@maryland.gov

* Signature of Authorized Representative:	Completed by Grants.gov upon submission	* Date Signed:	Completed by Grants.gov upon submission

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) State and Local Implementation Grant Program	(2)	(3)	(4)	
a. Personnel	$ 257,811.00	$ 47,910.00	$	$	$ 305,721.00 ✓
b. Fringe Benefits	72,187.00	13,230.00			85,417.00 ✓
c. Travel	113,862.00	0.00			113,862.00 ✓
d. Equipment	0.00	0.00			
e. Supplies	3,901.00	0.00			3,901.00 ✓
f. Contractual	1,462,000.00	436,000.00			1,898,000.00 ✓
g. Construction	0.00	0.00			
h. Other	75,600.00	0.00			75,600.00 ✓
i. Total Direct Charges (sum of 6a-6h)	1,985,361.00	497,140.00			$ 2,482,501.00
j. Indirect Charges	0.00				$
k. TOTALS (sum of 6i and 6j)	$ ✓ 1,985,361.00	$ ✓ 497,140.00	$	$	$ 2,482,501.00
7. Program Income	$	$	$	$	$

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Standard Form 424A (Rev. 7- 97)
Prescribed by OMB (Circular A -102) Page 1A

Maryland: SLIGP Detailed Budget Spreadsheet

Category	Detailed Description of Budget (for full grant period)			Breakdown of Costs		
a. Personnel	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	In-Kind/Cash
SWIC The SWIC will spend 10% of the time on SLIGP grant activities for 3 years. The SWIC's annual salary is $135,000. $135,000 x 10% = $13,500	3	$13,500	$40,500	$0	$40,500	In-Kind
Legal Services: Department of IT Assistant Attorney General will spend 50 hours per year for 3 years reviewing documents. The hourly rate is $45. $45 x 50 = $2,250	3 years	$2,250	$6,750	$0	$ 6,750.00	In-Kind
Broadband Grants Specialist: One grant manager will spend 100% (2080 hours per year) on the project for three years at $85,937 a year.	3	$85,937	$257,811	$257,811	$0	
Application Preparation by SWIC. **Pre-award Expense** The SWIC's annual salary is $135,000. or $66/hour times 10 hours.	10	$66	$660	$0	$660	In-Kind
Total Personnel			$305,721	$257,811	$47,910	
b. Fringe Benefits	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
SWIC Fringe is calculated at 28% of salary, for the portion of time spent on SLIGP activities (10%)	$40,500	28%	$11,340	$0	$11,340	In-Kind
DoIT AAG Fringe is calculated at 28% of salary.	$6,750	28%	$1,890	$0	$ 1,890	In-Kind
Grants Specialist Fringe is calculated at 28% of salary.	$257,811	28%	$72,187	$72,187		
Total Fringe Benefits			$85,417	$72,187	$13,230	
c. Travel	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
PRE-AWARD COST: Travel for Regional and National Meetings with FirstNet: 6 individuals will attend 1 meeting: the FirstNet Workshop in Arlington, Virginia on May 15-16, 2013. Local travel is estimated at $45 gas/tolls; hotel is estimated at $230/night for one night; per diem is estimated at $66/day for two days (Washington, DC rates), for a total of $407/trip.	6	$407	$2,442	$2,442		
POST-AWARD COSTS: Travel for Regional and National Meetings with FirstNet: 10 individuals will attend 9 meetings. Airfare is estimated at $600/ticket; hotel is estimated at $100/night for two nights; per diem is estimated at $70/day for three days, for a total of $1010/trip.	90	$1,010	$90,900	$90,900		
Mileage for Working Group Meetings: 40 individuals traveling 100 miles roundtrip for 9 meetings; cost per mile is based on state mileage reimbursement rates	36000	$0.57	$20,520	$20,520		
Total Travel			$113,862	$113,862	$0	
d. Equipment	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
N/A	0	$0	$0	$0		
Total Equipment			$0	$0	$0	
e. Supplies	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
Printers	1	$451	$451	$451		
Office Supplies budgeted at $50/month for 3 years	36	$50	$1,800	$1,800		
Laptops	3	$550	$1,650	$1,650		
Total Supplies			$3,901	$3,901	$0	
f. Contractual	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
Broadband SME - Contractor to provide technical support on a part time basis. Hourly rate of $200 per hour times 520 hours per year in years 2 and 3 for a total of 1040 hours	1040	$200	$208,000	$208,000		
Broadband Outreach/Administrator: Fulltime contractor at 2080 hours per year to provide outreach to regional representatives, coordination with Federal and neighboring States for 3 years.	3	$160,000	$480,000	$480,000		
5 Regional Coordinators: One assigned to each of Maryland's 5 Interoperability regions to coordinate activities related to FirstNet such as surveys, stakeholder outreach, inventory of assets, development of local plans and reports. Positions are contractors working 520 hours per year for 3 years	7800	$55	$429,000	$429,000		
Broadband Website Development, maintenance for three years based on approximately 1248 hours per year (60%) and an hourly rate of $92 per hour.	3	$115,000	$345,000	$345,000		
Site surveys: Contractural services to complete FirstNet developed site survey forms for Maryland facilities that will likely occur in Phase 2 of the grant period. 2000 hours in each year (years 2 and 3) at an hourly rate of $109 per hour.	4000	$109	$436,000	$0	$436,000	Cash
Total Contractual			$ 1,898,000	$1,462,000	$436,000	
g. Construction	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
N/A			$0			
Total Construction			$0	$0	$0	
h. Other	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
Wireless Connection for Laptops: 3 laptops/month x 12 months/year x 3 years = 108; the monthly cost for each laptop's connection is $75	108 units	$75	$8,100	$8,100		
Regional Coordination MACINAC: Likely sub-grant to provide coordination with FEMA Region III States for 3 years. Research, evaluation, planning and outreach on behalf of member States. Estimated to be 250 hours per year at a rate of $90. per hour.	3	$22,500	$67,500	$67,500		
Total Other			$75,600	$75,600		
Total Direct Charges			$2,482,501	$1,985,361	$497,140	
i. Indirect Costs	Quantity	Unit Cost	Total Cost	Federal	Non-Federal	
Indirect Costs 31% of all direct costs			$0	$0	$0	
Total Indirect			$0	$0	$0	
TOTALS			$2,482,501	$1,985,361	$497,140	

We have confirmed with the State Finance Office that the rates used for the State-paid fringe are accurate. FICA (0.0731); Retirement (0.1436); and State Unemployment Tax or SUTA (0.0028) are percentages applied to annual salary. Health ($6,919.00) and Retirement/Health ($3,875) are flat-figure Statewide averages. This works out to 28% of an employee's salary. There is also a 3% COLA salary increase slated for January included in this percentage.

| | | | **GRAND TOTAL** | $2,482,501 | | |

	Federal Share	Non-Federal Share
Sequestration Reduction Amount:	$1,985,361	$497,140
Total Project Cost		$2,482,501

SAMPLE

4. **Detailed Budget Justification.**

The budget narrative must provide sufficient explanation of each budget category in order to establish the need for the funds in each category, and the basis for figures used. The budget narrative must be accompanied by a spreadsheet listing itemized costs by category (e.g., salary, supplies, equipment, travel, contractual, indirect) supporting how the budget request was calculated. Spreadsheets must be formatted to fit letter-sized paper (8.5" x 11"). A budget justification in narrative form must also be provided to explain and justify all project costs, including contractual costs. This narrative must be organized to clearly correspond to the information provided in the budget table or spreadsheet. Detail provided in the spreadsheet and/or the narrative must also be sufficient so that reviewers can interpret how costs were estimated or calculated, especially for costs over $5,000 (including any contractual costs). The budget narrative (and the Standard Form 424A form) and spreadsheet must clearly distinguish those costs proposed to be supported with federal funds as well as those costs contributed by the applicant as the non-federal match.

Maryland plans to use SLIGP funds to provide additional staffing through existing contractual services vehicles, supplies and materials to enhance out stakeholder outreach, and research and data development planning to provide a consolidated plan for action upon the announcement that FirstNet is ready to begin deployment in our State. Governor O'Malley has been a leader in support of public safety broadband using his position as Chairman of the National Governors Association Committee on Public Safety and Homeland Security to advance the cause of awarding D Block to public safety. Now, as this state-of-the-art technology for first responders is closer to reality, the Governor has continued his advocacy for the development and deployment of the PSBN. Maryland is committed to working with FirstNet, our public safety stakeholders, IT professionals as well as Federal and regional partners to increase the chances of success in achieving this difficult but critical task. Having successfully used our interoperability governance structure to solve regional gaps and established a Statewide interoperable 700 MHz communications system, we plan to expand on those successes through the SLIGP opportunity. Here is our detailed justification for each component of the grant request:

Personnel

Interoperability Director (SWIC) (Non-Federal) – The State of Maryland has a full-time Statewide Interoperability Director who has been designated by the Governor as the single point of contact for interactions with FirstNet. The incumbent, Ray Lehr, served as the National Governors Association Board member on the Public Safety Spectrum Trust for more than years. He also oversees the implementation of the Statewide 700 MHz Communications system so he provides a strong background to assist the SIEC and stakeholders in preparing for the NPSBN. It is estimated he will spend 10% of his time on Broadband related activities and accordingly, 10% of his salary will be provided as an in-kind match. The source of this match is the State's general fund and is not from another Federal source.

Legal Services (DoIT AAG) (Non-Federal) – While the Broadband Outreach Administrator will begin the MOUs deemed necessary and complete the information required, a State Assistant Attorney General (AAG) must review and sign off on legal sufficience. An AAG from the Department of Information Technology (DoIT) will be assigned to review and approve documents. DoIT will be the administrative agency for this grant. The AAG will spend 50 hours per year over the three years of this grant. At $45 an hour, an in-kind match of $6,750, salary will be provided. The source of this match is the State's general fund and is not from another Federal source.

Application Preparation - (Non-Federal) – The SWIC used the 10 hours for preparation for the grant application. This is a pre-award expense.

Fringe Benefits

Fringe (benefits including FICA, unemployment, and retirement).is calculated at 28% of the salary for the SWIC's (Non-Federal) and DoIT's AAG (Non-Federal) time spent on the SLIGP activities over three years.

Travel

Travel for Regional and National Meetings with FirstNet (Federal) - 10 individuals will attend ten national and regional conferences to meet with FirstNet and share information and collaborate with other grant recipients.

- One of the trips is a <u>pre-award cost</u> for travel to the FirstNet Workshop in Arlington, Virginia on May 15-16, 2013. Travel costs include mileage and tolls, hotel and per diem.
- The travel for the nine additional national and regional conferences for 10 people are <u>post-award expenses</u>:
    - Travel for Regional and National Meetings with FirstNet (Federal): Staff will attend national and regional conferences to meet with FirstNet and share information and work with other grant recipients. Travel costs include airfare, hotel, and per diem.

Local, State, Regional Travel (Federal) – This is anticipated travel for local representatives and stakeholders to attend meetings around the State. Mileage is estimated at 40 people traveling 100 miles roundtrip for nine meetings.

Equipment

We do not plan to have any equipment costs for this grant program.

Supplies

Printer (Federal): A printer will be purchased for the Broadband staff to use in support of grant-related activities.

Office Supplies (Federal): This includes business cards, paper, folders, pens, and other general office supplies which will be used by the staff for grant-related activities.

Laptop (Federal): Three laptops for the Broadband staff to use while on travel and for conducting other outreach-related work.

Contractual

Broadband SME (Federal): This position will be budgeted at 520 hours in years 2 and 3 to support the technical evaluation of State assets, provide technical briefings and interpret FirstNet technical requirements and standards. This position will be contracted through the State of Maryland's Consulting and Technical Services (CATS II) contract. CATS II is a contract vehicle that provides pre-approved consultant firms who can be hired in an expedited manner. Therefore all personnel acquired under this contract are "contractors." It's been used successfully for the 700 MHz project and allows the State to ramp up quickly once the SLIGP is awarded.

Broadband Outreach/Administrator (Federal): The State will hire a full-time contractor to provide outreach to the regional representatives and coordination with Federal and neighboring states. This position will also provide support for MOU development and coordination with various State Assistant Attorney Generals for all agreements.

Regional Coordinators (5) (Federal): We plan to use the Interoperability Regions already established in the State, each with a governance model and a history of working together on communications issues, to assign coordinators to each region. These quarter-time time positions, contractors working 520 hours per year for three years, will conduct activities related to FirstNet such as surveys, stakeholder outreach, inventory of assets, and development of local plans and reports. Regional coordinators will be responsible for collecting attendance sheets and calculating hours and salary costs for each meeting, workshop, or other activity directly related to FirstNet to support the in-kind match.

Broadband Grants Specialist (Federal): This full-time contractor will provide grant management support, including monitoring the budget, producing grant progress reports, and project oversight to align activities with project budget and timeline. One grant manager will spend 100% , or 2,080 hours, on the project for three years.

Broadband Website Development and Maintenance (Federal): The State will hire a contractor to set up and maintain a website during the three-year grant period for the Broadband staff and working groups to exchange information on activities, share documents, and post status updates. This position is budgeted at 60% , or 1,284 hours, on the project for three years.

Site Assessment Services (Non-Federal): The State of Maryland has an existing contract with Motorola to build a statewide 700 MHz voice radio system. It is our intent to award a Task Order to Motorola in year two of the SLIGP to complete the Site Survey form to be developed by FirstNet. Since this was not included in the original RFP, this will be new scope. The intent is to capture the information needed to determine if LTE equipment can be installed at existing State and local sites. The work is estimated at 2,000 hours per year. This additional funding will be secured from the General Assembly as part of the Capital Program for FY14 or 15 depending on when FirstNet/NTIA makes the form available and authorizes the collection of data. This funding is above the amount being used for the Land Mobile Radio (LMR) project and is estimated to be $436,000 during the two years of phase 2 of the SLIGP and will be a "cash match" for the grant.

Construction

None, per grant guidelines.

Other

Wireless Connection for Laptop (Federal): The laptops purchased for the Broadband Outreach /Administrator and Broadband Grants Specialists will have a wireless connection to facilitate work while at meetings and on travel.

Regional Coordination (MACINAC) (Federal): The State intends to continue its coordination on broadband issues through the FEMA Region III consortium called MACINAC. Likely to be a sub-grant, the contractor will provide research, evaluation, planning and outreach on behalf of member States. It is anticipated we will release an RFI with FirstNet approval for the gathering of information related to deployment in this region. The cost shown is Maryland's contribution for a three-year period at $22,500 a year. Other FEMA Region III States will make their own estimates for this service.

State and Local Implementation Grant Program (SLIGP)
Supplemental Application Narrative

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1. Existing Governance Body

a. Describe the organizational structure and membership of the existing Statewide Interoperability Governing Body (SIGB), or its equivalent, that is responsible for public safety communications in the State.

The State of Maryland

Executive Department

EXECUTIVE ORDER
01.01.2008 07

The Maryland Statewide Communications Interoperability Program

WHEREAS, The interoperability of public safety communications systems is critical to protecting the lives and property of the citizens of Maryland;

WHEREAS, There is a need to expand and improve public safety communications infrastructure and interoperability throughout the State;

WHEREAS, The effectiveness of public safety communications depends on the cooperation and coordination of multiple jurisdictions;

WHEREAS, State agencies, together with their federal, local, and non-governmental partners, must work cooperatively to promote and enhance public safety communications infrastructure and interoperability; and

WHEREAS, Projects to improve the interoperability of public safety communications should be coordinated and implemented through a Maryland Statewide Communications Interoperability Program.

NOW, THEREFORE, I, MARTIN O'MALLEY, GOVERNOR OF THE STATE OF MARYLAND, BY VIRTUE OF THE AUTHORITY VESTED IN ME BY THE CONSTITUTION AND LAWS OF MARYLAND, HEREBY PROCLAIM THE FOLLOWING EXECUTIVE ORDER, EFFECTIVE IMMEDIATELY:

A. Maryland Statewide Communications Interoperability Program. There is a Maryland Statewide Communications Interoperability Program (MSCIP) to strengthen public safety communications interoperability throughout the State.

B. State Interoperability Director.

(1) There is a State Interoperability Director.

(2) The Director shall be appointed by, and serve at the pleasure of, the Governor.

On July 10, 2008, Governor Martin O'Malley signed an Executive Order (EO) formally establishing Maryland's Statewide Interoperability Executive Committee (SIEC) along with its Practitioner Steering Committee (PSC). The Superintendent of the Maryland State Police chairs the SIEC. The SIEC is comprised of senior elected and appointed officials from State, county, and municipal governments who are appointed by the Governor for up to two two-year terms. Public safety unions and associations, such as the Maryland State Fireman's Association, the Maryland Chiefs of Police, and the Maryland Association of Counties, are also appointed by the Governor to represent their members. Ex officio members serve as the heads of their departments.

The charts below show the SIEC's appointed members, the organizations they represent and their agencies, as well as the ex officio heads of state agencies and government.

SIEC Appointed Members:		
Organization Represented/Agency	Organization Represented/Agency	At Large Members
Maryland State Firemen's Association: Department of Emergency Communications Frederick County	Maryland Association of Counties (MACo): Talbot County	Kent County Department of Emergency Services
Metropolitan Fire Chiefs Council of Maryland: Baltimore County Fire Department	Maryland Municipal League (MML): City of Laurel	Office of Safety, Quality Assurance and Risk Management Maryland Transit Administration
Maryland Sheriff's Association: Washington County Sheriff's Department	Western Maryland: Washington County Division of Emergency Services	Division of Communications Maryland Transportation Authority
Maryland Chiefs of Police Association: Mount Rainier Police Department	Eastern Maryland: Queen Anne's County Department of Emergency Services	Harford County Division of Emergency Operations
Maryland Fraternal Order of Police: Prince George's County Police Department	Southern Maryland: Charles County Department of Emergency Services	U.S. Department of Homeland Security Office of Emergency Communications
American Federation of State, County and Municipal Employees of Maryland (AFSCME Maryland): Maryland State Highway Administration Communications Division	National Capital Region: Montgomery County Office of Technology	
State Law Enforcement Labor Alliance (SLEOLA): Maryland State Police	North Central Maryland: Baltimore City Fire Department Division of Communications	

SIEC Ex Officio Members:		
Chair: Maryland State Police	Statewide Interoperability Director	Maryland Department of Information Technology
Maryland Institute for Emergency Medical Services Systems	Maryland Department of Budget and Management	Governor's Office of Homeland Security
Maryland Department of Transportation	Maryland Department of National Guard	Maryland Emergency Management Agency
Maryland Department of Public Safety and Correctional Services	Maryland Department of Natural Resources	Maryland State Senate
		Maryland House of Delegates

A full membership list of the SIEC is also available here:
http://doit.maryland.gov/interoperability/Pages/InteropGovernanceMembership.aspx

> *b. Describe the SIGB's authority to make decisions regarding public safety communications and how these decisions are implemented.*

Under the provisions of the EO the SIEC has the responsibility to provide policy-level advice regarding public safety communications interoperability and to promote the efficient and effective use of resources for matters related to public safety communications and interoperability. Governor O'Malley has designated the SIEC and Maryland's Statewide Interoperability Coordinator (SWIC) as the "single point of contact" for interface to FirstNet and the SLIGP. The SIEC is responsible for the Statewide Communications Interoperability Plan (SCIP) which is updated annually with the PMO staff. The SIEC is also responsible the deployment, usage, and coordination of the State 700 MHz Frequencies as dictated by the Federal Communications Commission. The SIEC meets at least biannually, with additional meetings scheduled as needed throughout the year. Decisions from the SIEC are implemented through the position of Statewide Interoperability Director (Maryland's SWIC) who is responsible for the Interoperable Communications programs within the State. The EO established the Interoperability Director as a full-time State employee who reports directly to the State Police Superintendent. He directs a Program Management Office (PMO) which is responsible for projects to improve public safety communications systems within the State. Current projects include (a) the statewide 700 MHz radio communications system; (b) the Computer Aided Dispatch/Records Management System (CAD/RMS); and (c) the Closed Circuit Television (CCTV) coordination and integration system.

The Practitioners Steering Committee (PSC) was established by the EO to provide recommendations and advice to the SIEC, the PMO, and the Governor's Office of Homeland

Security (GOHS) on all matters pertaining to communications interoperability (e.g., assessment, acquisition, standardization, planning, management, use, and oversight of communications). The PSC meets monthly and is comprised of senior communications practitioners from all fields of public safety. The PSC has established three permanent subcommittees that provide the subject matter expertise required to implement public safety communications and interoperability projects: 1) Administrative and Budgetary Support Subcommittee, 2) Technical Subcommittee, and 3) Operations Subcommittee.

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c. Describe how the State will leverage its existing SIGB, or its equivalent, to coordinate the implementation of the Public Safety Broadband Network (PSBN) in the State.

The SIEC has provided planning, direction and support to Maryland's first responder community that has resulted in gap solutions for increased interoperability as well as a new, Statewide 700 MHz emergency communications system which has completed the first phase (December 2012) and will be completed in 2016. This will bring interoperability in Maryland to Level 5, standards based radio system used by all first responders. We plan to capitalize on this successful governance model to speed the planning and deployment of the PSBN. The SIEC has been planning for the broadband network through updates at each SIEC and PSC meeting. These committees have been engaged in the PSBN for over two years. The SIEC has sponsored three workshops to introduce State and local stakeholders to the PSBN. These workshops were held in 2011, 2012, and 2013. As a result of the commitment to broadband planning, the State has established a Broadband Working Group under the SIEC. That group will be expanded and have a governance structure more clearly defined under this grant program.

The Governor's EO also included the creation of a Deputy Statewide Interoperability Director. Budget constraints have kept that position from being filled, but our plan is to bring an individual with Public Safety/IT/Broadband experience on board to head the Maryland Broadband Program reporting to the Statewide Interoperability Director and leading the Maryland Broadband Working Group. Maryland also formed five regional interoperability regions; Eastern, Central, National Capital, Southern and Western. These groups meet regularly and have successfully used grant funds as well as pooled resources to complete gap interoperability solutions and hold interoperability trainings and exercises in partnership with the PMO. Each interoperability region has its own regional interoperability governance committee that either has been or will shortly be formalized. We will follow this successful model to assign each region a part-time consultant to lead the education, outreach and asset inventory there.

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d. How does the State plan to expand its existing SIGB to include representatives with an understanding of wireless broadband and Long Term Evolution (LTE) technology in order to facilitate its consultations with FirstNet?

The Maryland SIEC already includes the State CIO as well as regional CIOs and IT leaders, but with the implementation of a major broadband network using LTE technology, the State plans to seek additional partners to address the complex needs associated with wireless systems such as coverage, capacity, security, priorities, interfaces to existing networks, and application development. Maryland has a successful consortium of groups building the One Maryland Broadband Network. They are organized as regional teams under the coordination of the Maryland's Deputy CIO and Chief Technology Officer, Mr. Greg Urban. The Maryland Department of Information Technology (DoIT) is using funding from the NTIA under the BTOP program to connect more than 1,000 anchor institutions Statewide, including a significant portion of public safety infrastructure. Much of Maryland's 700 MHz system backhaul uses fiber owned or managed by the DoIT, including fiber installed as part of the BTOP program, fiber previously installed by the State, and fiber the State has access to through resource sharing agreements with major telecommunications companies.

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e. Does the State currently dedicate sufficient financial resources to adequately support the SIGB? Does the State intend to invest funds received from SLIGP to financially support the SIGB? If so, provide the amount the State expects to request and describe the SIGB functions that these funds will support.

Maryland has used a combination of Federal grants (PSIC, IECGP, UASI, HLSGP) to support interoperability needs in the State and each region. The SWIC is a full-time employee (non-grant funded) as are all the members of the SIEC. The SIEC and SWIC have been supported by consultant support for governance, grant management, and regional coordination. With the elimination of PSIC and IECGP, the State plans to continue and expand the staffing to support current SIEC and SCIP activities as well as the planning and deployment of the NPSBN.

Positions planned under the SLIGP:

- o Broadband Subject Matter Expert – This position is planned to support the technical evaluation of State assets, provide technical briefings, and interpret FirstNet technical requirements and standards. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC. This position a quarter-time in years two and three of the grant period.

- o Broadband Outreach/Administration– This is a full-time resource that is planned to be dedicated to planning, grant coordination, development of communications plan, web site, documentation, webinars, workshops and training activities. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC.

- o Regional Broadband Director (5) – Following the same regional approach which has seen interoperable gap solutions for each of Maryland's five governance regions, these part-time resources plan to represent the

interests and diverse needs of their constituency. This position would assist the SWIC to gather data, conduct education and outreach and help implement the recommendations regarding broadband from the SIEC.

- **Broadband Grants Specialist**: This full-time position will provide grant management support, including monitoring the budget, producing grant progress reports, and project oversight to align activities with project budget and timeline. One grant manager will spend 100% on the project for three years.

- **Broadband Website Development and** Maintenance (Federal): The State will hire a contractor to set up and maintain a website during the three-year grant period for the Broadband staff and working groups to exchange information on activities, share documents, and post status updates.

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2. Statewide Communications Interoperability Plan (SCIP)

a. Are there existing strategic goals and initiatives in your SCIP focused on public safety wireless broadband? If so, what are they?

Maryland participated in the DHS/OEC pilot program to expand the SCIP to include specific PSBN needs on January 30-31, 2013. As a result, we expanded the participation in our SCIP planning to include a wider group (public safety and IT/CIO representation). The workshop developed the immediate goal of:

>*6.1 Secure grant funds to complete planning for the PSBN in Maryland that will serve the needs of local, State, Federal, and regional partners for daily operations and is capable of expanding to meet the needs of large scale events.*

Even before the passage of the PSBN legislation, Maryland had established aggressive goals to make Maryland a leader in homeland security. Those goals and accomplishments are measured on the StateStat website: https://data.maryland.gov/goals/homeland-security

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b. Describe how the State has engaged local governments and tribal nations, if applicable, in public safety broadband planning activities that have been completed to date.

Maryland has held three workshops to focus State and local interest groups on the PSBN. Information about the PSBN is also regularly provided at the PSC and SIEC meetings. During our outreach for the building of the statewide 700MHz radio communications system, the PMO staff has provided regular updates to emergency managers, radio system managers, and public

safety officials on the fact that the PSBN was being talked about, the legislation that made it a law last year, and the milestones that have already been met by the FCC, NTIA and FirstNet.

We have recently created a website to distribute information to all stakeholders and to keep them up-to-date on the grant and the planning process: https://sites.google.com/site/mdprepfirstnet/

We have also developed a "one-pager" of questions and answers about the PSBN and SLIGP for our stakeholders to share with colleagues, elected officials, and member organizations. It was distributed to the SIEC and PSC on February 25, 2013 and has already resulted in several organizations and counties contacting us to express their willingness to work on the project.

What is Broadband?

Broadband is the wireless cell phone technology we use to download pictures, e-mails, movies and applications on smart phones. It requires a cellular network (towers, antennas, fiber) with more band-width than voice communications.

Why does Public Safety need it?

Broadband will give Public Safety new tools to more effectively do their jobs and ultimately save lives. Police officers will be able to receive video from a bank robbery as they approach the scene in order to identify suspects. Firefighters will have access to building plans at the scene of a fire, and paramedics can view a patient's health records and send video to the hospital in real time.

Will this replace public safety voice radio systems?

No, at least not in the next decade. Voice systems for Public Safety have many features, such as a Fire Chief being able to alert everyone at the scene of an impending collapse. Broadband voice is one-to-one calling like your cell phone. Part of the funds for FirstNet will support research and development of new devices capable of broadband and mission critical voice.

What is FirstNet?

The bill that created the funding for a Nationwide Public Safety Broadband Network (NPSBN) also created an independent Board, the First Responder Network Authority (FirstNet), to administer the design and building of the NPSBN. Members are appointed by the National Telecommunications and Information Administration (NTIA) and represent Public Safety, commercial carriers, Federal, State and local governments, as well as industry.

What is the SLIGP Grant Program?

NTIA released a Federal Funding Opportunity on February 6, 2013 for the State and Local Implementation Grant Program (SLIGP), funds provided to the States to gather plans, information, and resources they need to be ready for their portion of the NPSBN. The Governor has designated the Ray Lehr, the Interoperability Director, as the single point of contact for this effort. All State and local entities will have a chance to participate in the information gathering and planning in the first phase of the grant.

What do we need to do to be ready?

FirstNet will be doing a lot of outreach and education with County Executives, Mayors, Council Members, Delegates, CIOs, CTOs, Public Safety officials, utilities, and others. All localities will be contacted to asses their needs, current networks, and assets that could be used by FirstNet, as well as the number of potential users and applications that may be used on the NPSBN. You can begin gathering that data now but the grant will provide resources to assist. There will also be a website set up with the latest information. Maryland will organize our governance as a working committee under the Statewide Interoperability Executive Committee (SIEC).

When is FirstNet likely to come to Maryland?

FirstNet must develop the design, plan for deployment, and a cost model that will be presented to the Governor. The Governor will have 90 days to accept the FirstNet proposal or release an RFP for the State's own build-out of our portion of the network. The SLIGP planning grant will not only help Maryland better understand our needs, but that information will be shared with FirstNet so they can include them in the proposal for the Maryland build.

Where can I get more information about the NPSBN?

Maryland FirstNet Planning Website: https://sites.google.com/site/mdprepfirstnet/
FirstNet Website: http://www.ntia.doc.gov/category/firstnet
Statewide Interoperability Director: Ray Lehr, ray.lehr@maryland.gov

> *c. Does the State intend to use SLIGP funding to support efforts to update the SCIP by adding public safety wireless broadband strategic goals and initiatives? If so, provide the amount the State expects to request and describe the activities that these funds will support.*

Yes, Maryland plans to use SLIGP funding to support efforts to update the SCIP by adding additional public safety wireless broadband strategic goals and initiatives. With SLIGP staff onboard in late summer, we anticipate getting underway to put together and add the initiatives to the SCIP in the first quarter of the SLIGP funding. (Note that the immediate goal in answer 2a. has already been added to Maryland's SCIP during a pilot workshop in January.) The timing of adding these additional goals will coincide very well with the rewriting of the SCIP to include major progress on the Statewide 700 MHz Communications System.

Positions planned under the SLIGP to support efforts to update the SCIP are the same as in answer 1e:

- o Broadband Subject Matter Expert – This position is planned to support the technical evaluation of State assets, provide technical briefings, and interpret FirstNet technical requirements and standards. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC and to update the SCIP with public safety wireless broadband strategic goals and initiatives. This position is and a quarter-time in years two and three of the grant period.

- o Broadband Outreach/Administrator – The State plans for this be a full-time resource dedicated to planning, grant coordination, development of communications plan, web site, documentation, webinars, workshops and training activities. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC and to update the SCIP with public safety wireless broadband strategic goals and initiatives.

- o Regional Broadband Director (5) – Following the same regional approach which has seen interoperable gap solutions for each of Maryland's five governance regions, these part-time resources are planned to represent the interests and diverse needs of their constituency. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC and to update the SCIP with public safety wireless broadband strategic goals and initiatives.

- **Broadband Grants Specialist**: This full-time position will provide grant management support, including monitoring the budget, producing grant progress reports, and project oversight to align activities with project budget and timeline. One grant manager will spend 100% on the project for three years.

- **Broadband Website Development and** Maintenance (Federal): The State will hire a contractor to set up and maintain a website during the three-year grant period for the Broadband staff and working groups to exchange information on activities, share documents, and post status updates.

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3. State-level Involvement

a. What is the status of the Statewide Interoperability Coordinator (SWIC) for your State? Does this person work full-time in the SWIC capacity? How will this person be involved with SLIGP?

The Statewide Interoperability Director (Maryland's SWIC) works full-time and is responsible for the Interoperable Communications programs within the State. He is appointed by the Governor and supports statewide programs that enhance interoperability. He reports directly to the Superintendent of the State Police and chair of the SIEC. He will oversee SLIGP in close connection with the CIO of the State Department of Information Technology (DoIT). The proposed organization of the PMO is shown below:

MD Interoperability PMO Organizational Chart
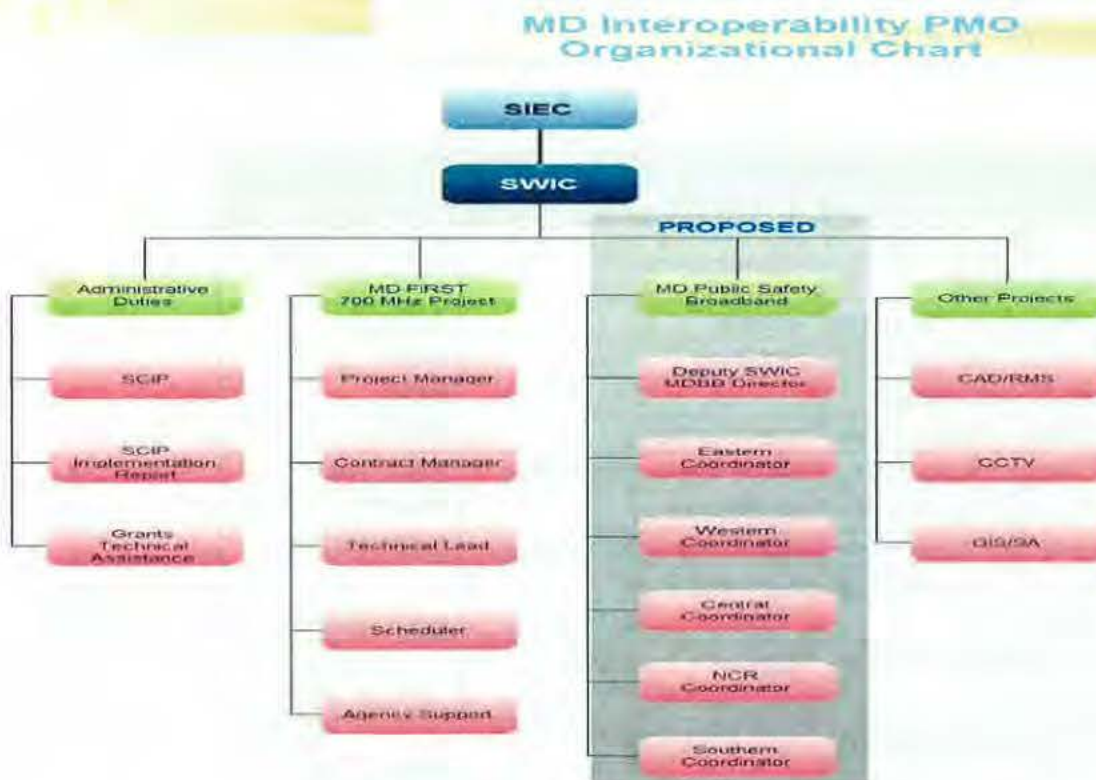
b. How will the State's Chief Information Officer/Chief Technology Officer be involved with SLIGP and with activities related to the implementation of the nationwide public safety broadband network?

Maryland's SWIC and State CIO plan to work jointly to coordinate and oversee SLIGP and the activities related to the implementation of the nationwide public safety broadband network. This model partnership is already developed with the current build-out of the Statewide 700MHz radio communications system (MD FiRST). MD FiRST is a joint venture between the State Police, with first responder end-users, and DoIT, which will run the network and oversee its operations, and the PMO serves as the bridge between the two agencies. The Interoperability Director oversees the day-to-day implementation of the system in coordination with DoIT. The PMO works extremely closely with the CIO, CTO, and project managers at DoIT, providing information about MD FiRST through weekly meetings, weekly reporting, and a detailed project schedule matrix updated daily. This level of cooperation and information-sharing has ensured a seamless continuity in the planning, implementation, and rollout of MD FiRST. We plan for this teamwork to continue with the implementation of the SLIGP, as PMO staff plan to lead the outreach, education, and planning efforts for the single, national network architecture that DoIT plans to then coordinate with FirstNet and the States.

c. What other State-level organizations or agencies will be involved with SLIGP?

State Agency Full Name	Agency Initials
Dept. of Juvenile Services	DJS
Dept. of Corrections	DOC
Md. Emergency Management Agency	MEMA
Department of Information Technology	DoIT
Md. Dept. of State Police	MSP
Dept. of Natural Resources - Forest Service	DNR FS
Dept. of Natural Resources - Natural Resources Police	DNR NRP
Dept. of Natural Resources - Park Service	DNR PS
Md. Institute for Emergency Medical Services Systems	MIEMSS
Md. Dept. of Transportation - Maryland Port Administration	MDOT-MPA
Md. Dept. of Transportation - Maryland Aviation Authority	MDOT-MAA
Md. Dept. of Transportation - State Highway Administration	MDOT-SHA
Md. Dept. of Transportation - Maryland Transportation	MDOT-MdTA

Authority	
Md. Dept. of Transportation - Maryland Transit Administration	MDOT-MTA
Md. Dept. of Transportation - Motor Vehicle Administration	MDOT-MVA
Md. Dept. of Transportation - Headquarters	MDOT-HQ

Other State agencies with representatives on the SIEC are the Maryland Department of Transportation (MDOT); Maryland Department of National Guard (MDNG); Maryland Emergency Management Agency (MEMA); Maryland Department of Public Safety and Correctional Services (DPSCS); Maryland Department of Natural Resources (DNR); Maryland Department of Budget and Management (DBM); the Maryland Transit Administration (MTA): the Maryland Transportation Authority (MDTA) and the Governor's Office of Homeland Security. Each of these agencies expects to have end-users that will access and utilize the PSBN. As such, it is vital to include them in the planning, education, and outreach for the network.

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d. What are the specific staffing resources the State requires to effectively implement the consultation process with the First Responder Network Authority (FirstNet) and perform the requirements of SLIGP? If the application requests funding for additional staffing, provide the amount the State expects to request and describe the positions these funds will support.

Positions planned under the SLIGP to support efforts to implement the consultation process with FirstNet and perform the requirements of the grant are the same as in answer 1e and 2c:

- o Broadband Subject Matter Expert – This position is planned to support the technical evaluation of State assets, provide technical briefings, and interpret FirstNet technical requirements and standards. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC, support efforts to implement the consultation process with FirstNet, and perform the requirements of the grant. This position is a quarter-time in years two and three of the grant period.

- o Broadband Outreach/Administrator – The State plans for this to be a full-time resource dedicated to planning, grant coordination, development of communications plan, web site, documentation, webinars, workshops and training activities. This position would assist the SWIC to implement the recommendations regarding broadband from the SIEC, support efforts to implement the consultation process with FirstNet, and perform the requirements of the grant.

- o Regional Broadband Director (5) – Following the same regional approach which has seen interoperable gap solutions for each of Maryland's five governance regions, these part-time resources plan to represent the interests and diverse needs of their constituency. This position would

assist the SWIC to implement the recommendations regarding broadband from the SIEC, support efforts to implement the consultation process with FirstNet, and perform the requirements of the grant.

- Broadband Grants Specialist: This full-time position will provide grant management support, including monitoring the budget, producing grant progress reports, and project oversight to align activities with project budget and timeline. One grant manager will spend 100% on the project for three years.

- Broadband Website Development and Maintenance (Federal): The State will hire a contractor to set up and maintain a website during the three-year grant period for the Broadband staff and working groups to exchange information on activities, share documents, and post status updates.

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e. How is the State engaging private industry and secondary users (e.g., utilities)?

The PMO has been consulting with the State's largest utility to plan for the PSBN and to discuss sharing resources. With SLIGP funds, the additional staff added to the PMO will significantly expand the State's outreach and education efforts with private industry and secondary users.

Additionally, through its participation in the Mid-Atlantic Consortium for Interoperable Nationwide Advanced Communications (MACINAC) Initiative (see response to Question 5), the State has engaged potential private users of the network, particularly electric utilities, in discussions regarding their interest in and potential support for the network in the mid-Atlantic region. As a regional approach, MACINAC is well-situated to work with regional utilities, of which the mid-Atlantic has quite a few. Thus far, MACINAC has focused its efforts on the major electric utility associations; it has presented a webinar to the CIOs committee of the Edison Electric Institute and held an in-person working session with regional utilities through the Utilities Telecommunications Council. It has also met with the National Rural Electric Cooperative Association and the American Public Power Association. MACINAC is now in the process of following up on those events by reaching out to specific interested utilities to discuss with more specificity the technical, operational, and business relationship each of those utilities would like to enjoy in connection with the future nationwide network. The State, in its role as a MACINAC member, expects these discussions to yield tentative, documented terms that can serve as a starting point for active negotiations between the utilities and the network operator.

4. Coordination with Local Government Jurisdictions

a. Describe the local government jurisdictional structure (e.g., municipalities, cities, counties, townships, parishes) located within the boundaries of the State, Commonwealth, Territory, or District applying for a grant. How many of these local jurisdictions exist within the State's boundaries?

For much of Maryland, local government typically is county government. Twenty-three counties and Baltimore City make up the 24 main local jurisdictions found in Maryland. Baltimore City, although a municipality, has been considered on par with county jurisdictions with regard to the application of many state laws since the adoption of the Maryland Constitution of 1851.

According to the Maryland Department of Legislative Services, counties in Maryland serve two roles in Maryland government. They operate as a provider of local services and an administrative arm of the State. In the first role, the structure and extent of county government throughout the state is based on local needs and on economic, geographic, and population differences. In the second role, counties have served as an apparatus to provide services of statewide concern throughout each region of the State. As described by Department of Legislative Services Local Government Handbook (http://mgaleg.maryland.gov/Pubs/LegisLegal/2010-local-government-handbook-vol-006.pdf), counties are the primary component of local government in Maryland. They are responsible for most basic services such as police, fire, local corrections, sanitation, highways, health, and parks and recreation. Counties are also responsible for funding public schools, libraries, local community colleges, and the circuit courts. In addition, unlike most states, the local school districts in Maryland are fiscally dependent on the county government for funding.

The Maryland Association of Counties (MACo http://www.mdcounties.org) is a non-profit and non-partisan organization that serves Maryland's counties by articulating the needs of local government to the Maryland General Assembly. The Association's membership consists of county elected officials and representatives from Maryland's 23 counties and Baltimore City. MACo's members determine Association policy and positions on executive and legislative proposals through an elected Board of Directors and a volunteer Legislative Committee. Through MACo's advocacy, training, education programs, and annual conferences, members are provided with endless opportunities to improve their capacity to serve their residents.

Maryland has more than one-hundred and fifty municipal corporations, or municipalities, with home rule powers under Article XI-E of the Maryland Constitution. The size and structure of municipalities in Maryland vary widely. According to the Maryland Department of Legislative Services, public works and public safety are the two largest functions for most municipalities in Maryland. Common public services performed by municipalities include street lighting, trash and refuse collection, snow removal, and street maintenance. Police protection, planning and zoning, leaf collection, and water services are provided by at least one-half of municipalities.

Many municipalities in Maryland are very small, with fewer than 1,000 residents. According to the Department of Legislative Services, only eight have more than 25,000 residents. Rockville, with 62,100 residents, is the largest municipality in Maryland followed by Gaithersburg and Frederick. Port Tobacco in Charles County, with 19 residents, is the State's smallest municipality.

Located in the state capital of Annapolis, the Maryland Municipal League (MML http://www.mdmunicipal.org) was founded in 1936 and represents the 157 municipal governments and two special taxing districts throughout the State.

> *b. Describe how your State will involve these local jurisdictions to ensure there is adequate representation of their interests in the FirstNet consultation and in the planning and governance for SLIGP.*

The current PMO staff has reached out to the representatives at MACo and MML, and both organizations have agreed to serve as the focal point for involvement of all local jurisdictions. The PMO staff plans to work closely with MACo and MML to ensure that all jurisdictions are included in the planning process for SLIGP. We also plan to expand our five regional governance groups to include more CIO/IT leaders along with the public safety members already working on interoperability. We plan to engage the local jurisdictions with in-person meetings, workshops, webinars, and a website with information and staff contacts. A particular effort will be made to visit every region to allow each county and municipality in the State and meet with our PMO staff and to involve them in the planning process. We feel that in-person meetings foster a sense of ownership and allow participants to have a personal connection to the project.

> *c. Describe past methods the State has used to successfully coordinate state-wide projects or activities with local government jurisdictions.*

The State is in the fortunate position to be currently engaging with State and local government

through the development, implementation, and rollout of the Statewide 700 MHz radio communications system, a $345 million capital investment to connect Maryland's first responders on one secure radio system called Maryland First responders Interoperable Radio System Team or MD FiRST. The system is being rolled out by region. In December 2012, the State turned on the first regional phase, with the Maryland Transportation Authority (MDTA) in north-central Maryland, the Maryland State Police Barrack on Interstate-95 in Cecil County, and Kent County on the Eastern Shore now on the system. This initial phase covers two-thirds of the State's critical infrastructure, such as the Port of Baltimore, Baltimore Washington International Thurgood Marshall Airport, bridges and tunnels, and one-third of the State's population.

Working in partnership with local jurisdictions and other mutual aid partners, MD FiRST is identifying and providing access to an unprecedented number of critical radio channels across agency and county lines, increasing interoperability between the State and local jurisdictions. Using its old radio system, the MDTA Police previously had access to only three radio channels to manage their public safety operations and incident response. The new MD FiRST system provides the MDTA Police with access to more than 700 individual state and local public safety radio talk groups, as well as nationwide interoperability talkgroups through a single handheld radio. In addition to the improved interoperability, the new radios and radio system provide enhanced security, clarity, and range, as well as critical capabilities such as remotely programming radios as needed.

Kent County, as the first county to join the system, has been a wonderful example of the State and local jurisdiction working together and producing major cost savings for the county, as well as increased interoperability for the county and the State. Kent was on a VHF system that was under the FCC narrowbanding deadline of January 1, 2013. A new radio communications system built just for Kent was estimated to have cost the county more than $14 million. With MD FiRST, the state provides the network infrastructure, the towers, shelters, antennas, and transmitters, as well as the backhaul connecting all parts of the system. The agencies who join are responsible for purchasing subscriber equipment to operate on the system. For the $3 million investment, Kent was able to buy the subscriber equipment such as radios and dispatch consoles and join MD FiRST, avoiding the narrowbanding deadline and providing a major increase in its radio coverage in the county and in adjoining areas. This has already proven its value as paramedics routinely transport maternity cases to Union Hospital in Cecil County to the north of Kent. Now the paramedics are in contact with dispatch all along the route as well as within the hospital due to the in-building coverage MD FiRST provides.

What the State Provides	What the Agency Provides
Infrastructure	Subscriber Equipment
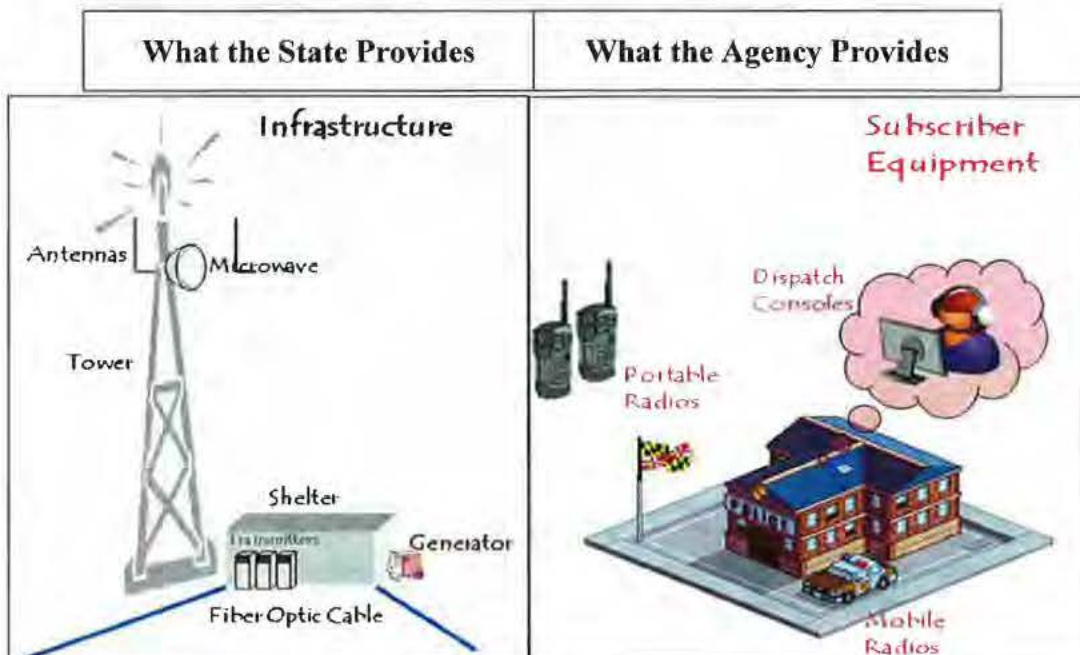
Kent County officials have reported that the process of joining MD FiRST and say that the support they've received from the PMO has been outstanding. Any operational or logistical issue has been quickly resolved by both parties. Other counties, especially those on the Eastern Shore, have been closely watching Kent's decision to join MD FiRST and evaluating the impact of joining on their own county budgets and system life cycles. The PMO believes this partnership with Kent will have lasting dividends in increasing interoperability with all the counties as it clearly illustrates how the State will work with local jurisdictions on interoperability projects, including the NPSBN.

All Eastern Shore counties will be covered by MD FiRST by December 2013. The central Maryland counties (Baltimore, Anne Arundel, Howard, Carroll, Harford, Cecil, and Frederick) are scheduled to be covered by December 2014; Southern Maryland (Calvert, Charles, and St. Mary's) and the National Capitol Region counties (Montgomery and Prince George's) by December 2015 and the three Western counties (Washington, Allegany, and Garrett) by December 2016.
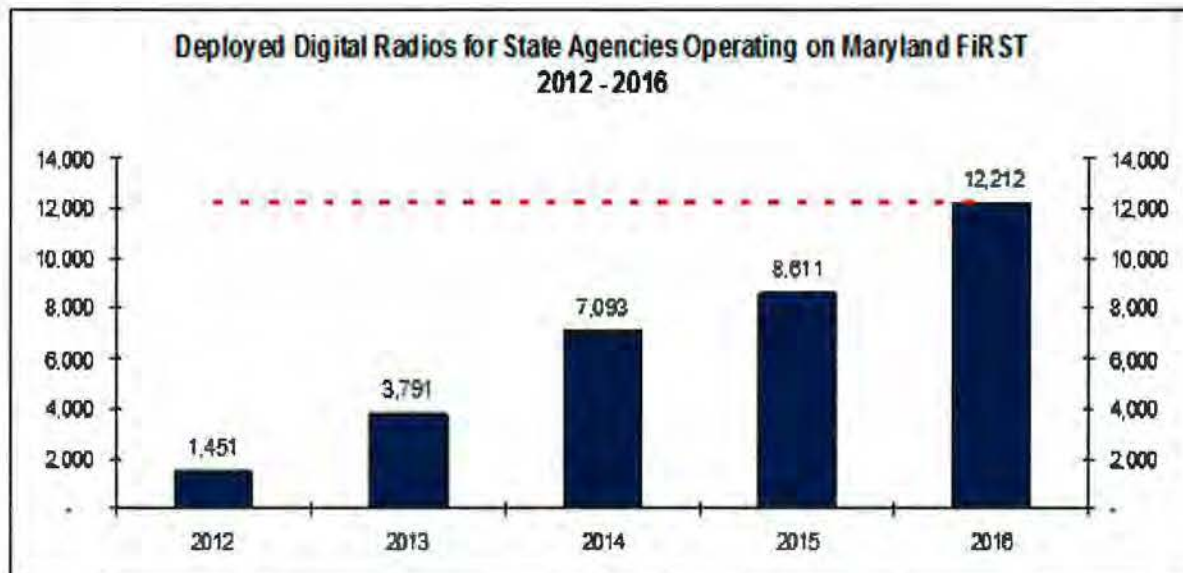
Maryland FiRST Statewide Interoperable Radio Regions and Phasing
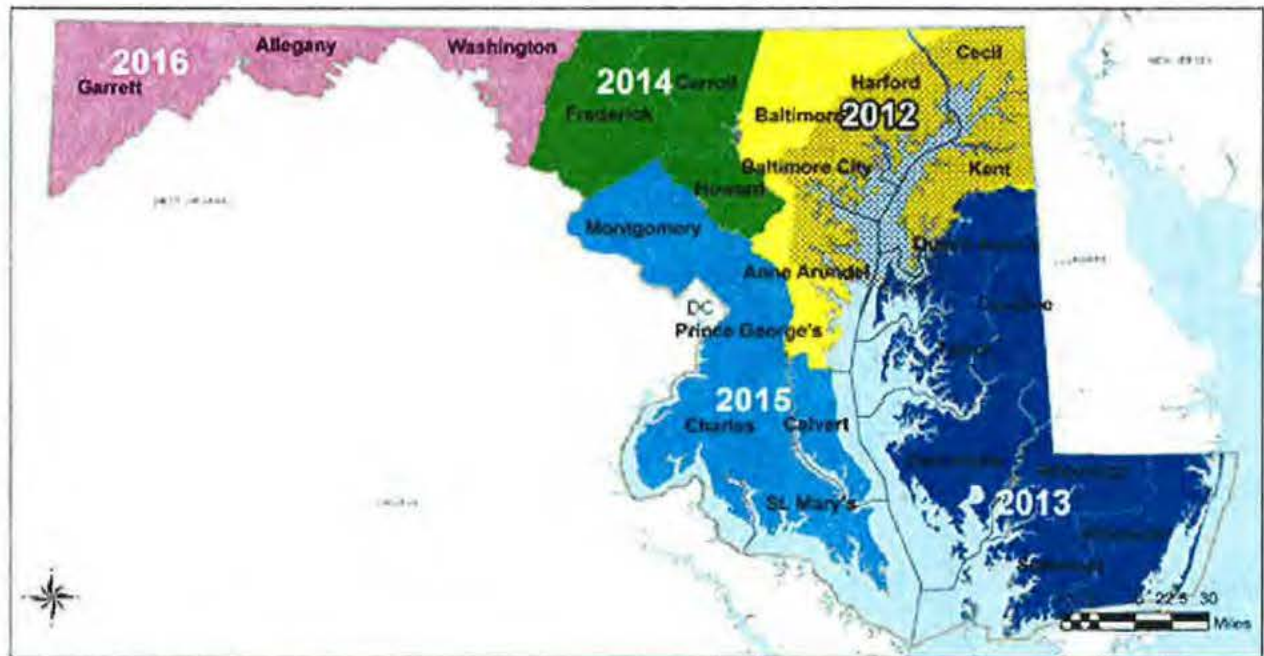
Maryland FiRST Regions

- Full Coverage Tested. Completed in 2012
- Region 1: Baltimore City, Cecil and Kent Counties, Plus Partial Coverage in Anne Arundel, Baltimore, and Harford Counties - Completed in 2012
- Region 2: Eastern Shore - 2013
- Region 3: Central Maryland Plus Completion of Coverage in Harford, Baltimore and Anne Arundel Counties - 2014
- Region 4: National Capital Region and Southern Maryland - 2015
- Region 5: Western Maryland - 2016

By the time MD FiRST is fully deployed in the State more than 12,000 radios are expected to be on the system.

Deployed Digital Radios for State Agencies Operating on Maryland FiRST
2012 - 2016

Year	Radios
2012	1,451
2013	3,791
2014	7,093
2015	8,611
2016	12,212

Over the past four years, the PMO has met with emergency managers, public safety managers, and elected officials in each of its 24 jurisdictions and some municipalities to educate them about MD FiRST and to develop resource-sharing partnerships, policies, and strategies. The PMO has also met with each state agency to determine its radio communications needs and life cycles and plan a timeline on whether to join the system. Each county and agency can choose to join when the system is completed in its region, wait until it's due for a technology refresh, or maintain its own system.

While the statewide radio system is under a phased implementation, first responders in every county in Maryland are now connected to one of five regional systems that provide radio interoperability with the region. In July 2012, counties in Southern Maryland completed construction of the Southern Maryland Interoperable Emergency Communications (SMIEC) Network, joining the previously completed CMARC (Central Maryland Area Radio Communications), MESIN (Maryland Eastern Shore Interoperability Network), NCR (National Capital Region), and WAGIN (Washington Allegany Garrett Interoperability Network) systems. The PMO has met and continues to meet with the leaders of each of these systems to develop strategies to seamlessly integrate MD FiRST and these networks.

Maryland's Interoperable Radio Networks

Another state initiative involving the local jurisdictions is TAC STACK, an interoperable radio communications system providing coverage across the Chesapeake Bay and its tributaries. In September 2012, the State's Natural Resources Police completed deployment of TAC STACK allows communication between normally incompatible radio systems used by state, local, and federal agencies that operate on Maryland's waterways. This interoperable communication tool provide the capability for first responders in any region of the state and on Maryland waterways to have access to interoperable radio channels during mutual aide incidents impacting multiple jurisdictions and agencies.

The development of MD FiRST and Interoperable Communications is the number one core goal of Governor Martin O'Malley, who set 12 core goals in homeland security and preparedness for the State. Each goal is analyzed and tracked in monthly StateStat meetings with the Governor and his executive staff to report and answer questions on agency performance and priority initiatives. StateStat is a performance-measurement and management tool implemented by the Governor to make state government more accountable and more efficient. It is modeled after the CitiStat program that he developed as Mayor of Baltimore City. Data is carefully analyzed, performance trends are closely monitored, and strategies to achieve improved performance are developed. Metrics and statistics are published online, allowing the citizens to keep up-to-date and informed on their government. The work done under SLIGP for the NPSBN will be tracked in the very same way during the Public Safety Technology meetings. Here's a link to the Governor's Goal for Interoperability: http://www.gohs.maryland.gov/in_op_accomplishments.html

Finally, the State is wrapping up the implementation of the One Maryland Broadband Network (OMBN) project. The OMBN project is deploying more than 1,000 miles of fiber optic communication infrastructure in each of Maryland's 24 jurisdictions. This infrastructure will build new or expand existing county networks, and connect these networks to the existing statewide network networkMaryland. networkMaryland will also be expanded and provide a private routed network for government users within Maryland, in addition to the secure Statewide Governmental Intranet (SwGI). DoIT is coordinating the overall effort and directly

managing the work within 15 counties. The other nine counties are managed by a consortium of counties led by Howard County called the Inter-County Broadband Network. DoIT has led outreach efforts to all jurisdictions and captured jurisdictional requirements and prioritizations. Through this coordination, a list of prioritized community anchor institutions (CAIs) that are being connected to the OMBN was created and managed by DoIT. This outreach has created partnerships within the project, as well as outside the project. Through consistent communications stakeholders have been kept up-to-date with the progress of the project and the impact to each jurisdiction. The project maintains support at the county, state, and federal levels as implementation nears completion by September 2013.

Within the OMBN, the Inter-County Broadband Network (ICBN) is a collaborative inter-governmental consortium comprised of Annapolis, Anne Arundel County, Baltimore City,

 Baltimore County, Carroll County, Harford County, Montgomery County and Prince George's County. The ICBN will directly connect 715 anchor institutions in Central Maryland, including hundreds of K-12 public schools, libraries, public safety agencies, community colleges and other government institutions. In addition, the network will also connect to existing networks with thousands more anchor institutions. Also, the ICBN will make available nearly 800 miles of fiber optic cable for low-cost lease by commercial entities to expand the reach and quality of broadband access throughout the region.

Expanding broadband services to all rural areas in the State has been a priority for many years

 and has been addressed through funding of the Maryland Broadband Cooperative (MDBC), a private non-profit telecommunications carrier. It is the mission of the MDBC to provide world-class middle-mile broadband services to underserved and un-served areas of the state through its members. The MDBC used funds from the Broadband Assistance fund to build a fiber optic network on the Delmarva Peninsula. Additional agreements with DoIT have given the MDBC access to fiber throughout the State, including portions of fiber from the OMBN. The leadership of the MBC plans to partner with the State PMO to reach out to its members and constituents to educate them on the NPSBN.

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d. What have been some of the State's primary challenges when engaging with local jurisdictions? What are some of the strategies that the State will employ to overcome these challenges during implementation of SLIGP?

One of the primary challenges in engaging local jurisdictions has been the ability of the relatively small PMO staff to engage every stakeholder amid competing local and other State projects. Public safety practitioners, especially in smaller jurisdictions, often have multiple roles, and finding time to meet with them for extended periods can be challenging. Having dedicated

staff that focuses their efforts solely on NPSBN planning will increase our chances for success in reaching out to all jurisdictions in the State.

> ## 5. Regional Coordination
>
> *a. Does your State have intrastate regional committees that are involved with public safety communications? If so, please describe their organizational structure and membership and how they provide input to the SIGB.*

The State of Maryland is organized into five interoperability regions as shown on the map below. Each region has established a governance structure and charter to oversee the development of interoperable communications. Each region nominates a member to serve as a voting member of the SIEC and on the PSC, which reports to the SIEC. Upon the advice of the PMO, the Governor appoints these regional representatives to the SIEC and the PSC. In some regions, one person fills both positions. In other regions, there is a different representative for the SIEC and the PSC. The SIEC gives much weight to the input, recommendations, and counsel from these regional representatives, as they are the radio system managers and public safety communications practitioners in the field.

Regions

Western Interoperability Region
NCR Interoperability Region
Northern Interoperability Region
Southern Interoperability Region
Eastern Interoperability Region

- **Western Interoperability Region: WAGIN is the Washington, Allegany and Garrett Interoperability Network**

    The Maryland counties of Washington, Allegany and Garrett, in partnership with the State of Maryland, have built a three-county radio interoperability network connecting their public safety mobile radio systems and linking with the radio systems of three state agencies. The federally funded new system, known as the Washington-Allegany-Garrett Interoperability Network (WAGIN) was made operational November of 2010. The WAGIN system was built utilizing IP Interoperability and Collaboration System (IPICS) technology from CISCO Systems. This system accommodates physical

radio connections, personal computers, IP phone users, and Public Switched Telephone Network (PSTN) connections. The WAGIN open standards-based system is consistent with the Maryland SCIP.

The WAGIN Governance document, recently updated and signed by all three counties in March 2011, established the WAGIN Work Group and Executive Committee. The purpose of the WAGIN Workgroup is to make and implement decisions concerning the development of plans and policies pertaining to communication capabilities and the use of funds for regional interoperability projects, in order to increase the capability of member jurisdictions to prevent, prepare for, respond to and recover from incidents and disasters. The Executive Committee is the decision-making body of the Work Group and is vested with the full authority and duties of the Work Group itself. The senior elected officials in each of the three WAGIN jurisdictions have authorized the Executive Committee to determine the use of all funds available to the Region for interoperability initiatives. The Executive Committee is comprised of one voting member from each of the three counties. The Chair of the Executive Committee is elected every two years and is a voting member of the SIEC and the PSC. PMO staff participate in WAGIN's monthly meetings to provide input on Statewide projects and to act as a liaison for WAGIN to the State and the SIEC. PMO staff also attend and participate in WAGIN's exercise and training programs and workshops.

- **The NCR Interoperability Region: Prince George's, Montgomery, and Frederick Counties**

In 2005, the NCR Interoperability Program (NCRIP), a regional initiative, was established to create digital networks and systems interoperability for public safety and emergency response. As part of this effort, a project was establised to interconnect the instiutional networks of the NCR governments called NCRnet. NCRnet is intended to provide a survivable infrastructure linking Maryland, Virginia and DC NCR jurisdictions together for the benefit of first responders both in regional emergencies and in routine operations. The NCRnet project will provide network infrastructure necessary to allow secure, non-commercial, government-controlled access to critical regional communications systems and to facilitate real time, inter-regional, and cross-ESF communications. This infrastructure will allow the Emergency Support Functions (ESFs) to succeed in their mission of building and sustaining an integrated effort to prepare for, prevent, protect against, respond to, and recover from all-hazards, threats or events. Prince George's County in Maryland is the lead agency for this project and Montgomery and Frederick Counties are participants along with the cities of Gaithersburg, Rockville, College Park, and Greenbelt.

In addition, as members of the Washington Metropolitan Council of Governments, an interstate organization with members in Maryland, the District of Columbia, and Virginia (see more in 5b), the NCR counties in the State have more than a decade of interoperability and working together in operation on the intrastate level. The Maryland NCR counties have the ability to directly go on to each other's systems for seamless interoperability within the State. When direct seamless interoperability can't

exist because of frequency differences, normally other permanent gateways are in place. For example the NCR counties share, or have the ability to share, the national and regional 700/800MHz.

- **Northern Interoperability Region - Central Maryland Area Radio Communications (CMARC)**

    After the terrorist attack on the United States on September 1, 2001, a comprehensive review of security vulnerabilities was launched by public safety personnel in Central Maryland. Wireless radio interoperability, between public safety personnel in local jurisdictions and those working for the State and Federal governments was identified as one of the biggest vulnerability gaps. This gap was consistent with findings of national commissions that reviewed the 9/11 attack. As a result, funding to correct this problem was provided through various grants administered by the U.S. Departments of Justice and Homeland Security. The Central Maryland region was identified for special homeland security funding via Urban Area Security Initiative (UASI) grants. The Baltimore Urban Area Working Group, a committee of public safety leaders under the direction of elected leadership who were members of the Baltimore Metropolitan Council, was formed and immediately directed the establishment of a sub-committee to address vulnerabilities related to wireless radio interoperability.

    The Baltimore Urban Area Working Group (BUAWG) By-Laws provide the specific governance structure that oversees interoperable communications policy. The Baltimore Metropolitan Council Executive Group, the BUAWG, and the Central Maryland Area Radio Communications (CMARC) Oversight Committee work in tandem to address wireless radio interoperability issues in Central Maryland. CMARC, a standing committee as defined by Article V of the By-laws for the Baltimore Urban Area Working Group is responsible for developing, overseeing and implementing the solutions to wireless radio interoperability issues on behalf of the BUAWG.

    The following agencies are members of the CMARC Oversight Committee: Emergency Management for Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, Howard County and the State of Maryland; Law Enforcement providers for Anne Arundel County, Annapolis City, Baltimore City, Baltimore County, Carroll County, Harford County, Howard County and the State of Maryland; Fire/EMS providers for Anne Arundel County, Annapolis City, Baltimore City, Baltimore County, Carroll County, Harford County and Howard County; Health Departments using wireless public safety radio systems in Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County and Howard County; Department of Public Works and utilities using the wireless public safety radio systems in Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County and Howard County and other providers at the State and Federal levels.

    CMARC committee meetings are open to members from any agency at any level of government with a need for public safety radio interoperability. Voting members include participants from the agencies listed above. The chair of the CMARC Committee

is appointed by the BUAWG Chair and is responsible for scheduling and overseeing committee meetings and producing minutes of the meetings. Two subcommittees report to the CMARC Chair. The first subcommittee is responsible for technical issues related to system design and implementation. The second subcommittee is the User's Group which is responsible for identifying interoperability gaps and needs as well as the development and implementation of operating procedures. PMO staff participate in CMARC's meetings to provide input on Statewide projects and to act as a liaison to the State and the SIEC. PMO staff also attend and participate in exercise and training programs and workshops.

- **Southern Interoperability Region - Southern Maryland Interoperable Executive Committee (SMIEC)**

    The three counties in Southern Maryland -- Calvert, Charles, and St. Mary's -- have established a Regional Governance Structure that has been formally approved in the form of Articles signed by all three Boards of County Commissioners. Each County appoints three members to the Executive Governance Group. The composition includes: a member of the County Commissioners or another elected or appointed official of the County; the Public Safety or Emergency Services Director of the County; and a citizen of the County appointed by the Commissioners. There is a Practitioner Steering Committee comprised of up to five members from each County that are appointed by the Executive Governance Group. The mission of the SMIEC is to promote public safety Communications and interoperability program. The Committee meets to manage and advise on projects, issues, and funding sources dealing with interoperability in the region and State. The SMIEC has overseen regional drills and is now overseeing the process of the build-out of the National Mutual Aid radio systems in the Southern Maryland region, which will enhance regional interoperability.

- **Eastern Interoperability Region – Eastern Shore Communications Alliance (ESCA)**

    ESCA is comprised of the directors of emergency services from every county on the Eastern Shore and Ocean City. ESCA is a cooperative alliance that serves as the Shore's interoperability governance body. ESCA meets regularly to discuss interoperability and other issues facing public safety answering points and emergency managers on the Shore. ESCA coordinates interoperability trainings and exercises, as well as drafts and maintains regional standard operating procedures and Tactical Interoperable Communications Plans. ESCA manages the Maryland Eastern Shore Interoperability Network (MESIN), the Shore's primary technical interoperability solution. As a group, ESCA sets regional interoperability policy, and works with State and federal partners on interoperability issues.

    Through its seats on Maryland's interoperability governance structures, the SIEC and the PSC, the Eastern region participates in statewide interoperability efforts. This collaboration between the state and local levels ensures that interoperability initiatives in the Eastern region remain in alignment with the SCIP.

b. Describe any interstate regional bodies in which your State participates that are involved with public safety communications in the State.

Maryland is a member of the Mid-Atlantic Consortium for Interoperable Nationwide Advanced Communications (MACINAC), an initiative to implement a multi-state, regional approach to deployment and operation of the mid-Atlantic portion of the nationwide public safety broadband network (NPSBN). Beginning a year before passage of the Act that created FirstNet, the District of Columbia, the states of Delaware, Maryland, and West Virginia, and the commonwealths of Pennsylvania and Virginia formed MACINAC to help them take concerted action and thereby improve interoperability and realize cost efficiencies. The MACINAC States have been working cooperatively for more than two years to monitor, review, and evaluate issues related to the Nationwide Public Safety Broadband Network. Our purpose in forming this consortium is to assure seamless interoperability across all State borders. Maryland plans to continue this coordinated effort and will fund our portion of the costs associated with regional meetings, exchange of ideas, and analysis of FirstNet proposals. This will be accomplished through the continuation of consultant support and planning activities.

The MACINAC Initiative serves as a mechanism to accomplish tasks that are more effectively and efficiently handled in a shared, multi-state manner, whether those tasks are technical, governance-related, educational, or policy-related. Thus, any SLIGP funding that might be used for such tasks will be for the accomplishment of tasks the State would otherwise undertake itself, only in a shared, more efficient fashion. For example, the MACINAC Initiative was used early on by the member states to develop an educational presentation for all of the states to use in outreach to executives and stakeholders. As a result, each state was saved from having to incur the full-cost in time and money for the creation of this document. As SLIGP tasks arise, the member states will determine whether the task would be better and more efficiently handled in a shared fashion through the MACINAC mechanism. Such tasks will be among those already contemplated in the State's SLIGP proposal; the only difference will be that rather than accomplishing the task on its own, the State will accomplish it in concert with the other states in the region, sharing both the cost and the accomplishment. Because sharing resources among states typically is accomplished through subgrants, the State has revised its budget to specify an amount for subgrants under the "Other" cost category. However, because the MACINAC states will determine in the future both the specific tasks to share as well as the costs of such tasks, the amount reflected in the budget for subgrants is solely a budgetary allocation that may require amendment as the MACINAC states proceed to engage with FirstNet and undertake various SLIGP tasks.

The MACINAC member states are currently considering the extent to which they will coordinate and consolidate their FirstNet consultation efforts. The states may agree upon common information and requirements to share with FirstNet; they may also decide to consult more broadly with FirstNet as a region. As the Act specifies: FirstNet must consult with "regional, State, tribal, and local jurisdictions regarding the distribution and expenditure of any amounts required to carry out policies ... including with regard to the ... coverage area of the network whether at the regional, State, tribal, or local level." Sec. 6206(c)(2)(A)(iii). It is the hope and desire of the MACINAC member states to simplify and facilitate the state consultation process

for FirstNet; they are currently working among themselves and will soon be working with FirstNet to determine the best way to accomplish that goal.

As the Act states, the SLIGP is "a grant program to make grants to States to assist State, regional, tribal and local jurisdictions to identify, plan and implement the most efficient and effective way for such jurisdictions to utilize and integrate the [nationwide network] to satisfy the wireless and communications needs of that jurisdiction." Sec. 6302(a). The regional coordination and sharing mechanism that is the MACINAC Initiative not only helps the State determine the "most efficient and effective way" to use the nationwide network to meet its communications needs, but it also in many cases provides the "most efficient and effective" approach to doing the work necessary to make that determination.

Thus far, MACINAC has drafted a charter to memorialize the agreement of its member states to work in a concerted, regional approach. It has held stakeholder meetings throughout the region to provide policy and technical education and develop user requirements, and it responded to requests for comment from both NTIA and FirstNet. It has also begun identifying government-owned assets in the states, identified and documented a cooperative procurement process that would allow all states to purchase from a single contract vehicle, and engaged critical infrastructure industries in discussions regarding their potential inclusion in a sustainable business model for the portion of the NPSBN within the MACINAC region. In addition, MACINAC has prepared (but not yet issued) a Request for Information to gain for FirstNet and the MACINAC states important information related to the planning, design, and non-LTE aspects of network deployment in the region. The RFI released by MACINAC is the first of a two-step RFI process. The current RFI seeks only general information that will help the States in planning activities to ensure interoperability across borders. The second phase of the RFI, as stated in the document, is to be released after guidance from FirstNet is provided to support our efforts to provide the most cost-effective and interoperable solution for the region. Since many of the commercial assets that FirstNet has indicated it plans to use in its "Conceptual Network Architecture" document cross our borders and provide different levels of service, it is important to continue to coordinate our evaluation of FirstNet plans and proposals.

Another interstate regional body that our State participates in is the Washington Metropolitan

Council of Governments, an interstate organization with members in Maryland, the District of Columbia, and Virginia. COG is an independent, nonprofit association that brings area leaders together to address major regional issues. COG's membership is comprised of 300 elected officials from 22 local governments, the Maryland and Virginia state legislatures, and U.S. Congress.

The three counties in Maryland that border the District of Columbia, as well as several cities, are members. The list of members: (denotes * *adjunct member)*

District of Columbia

Maryland:

| Bladensburg* | Frederick | Montgomery County |

Bowie	Frederick County	Prince George's County
Charles County	Gaithersburg	Rockville
College Park	Greenbelt	Takoma Park

Virginia:

Alexandria	Fairfax County	Manassas
Arlington County	Falls Church	Manassas Park
Fairfax	Loudoun County	Prince William County

MWCOG has a Police Chief's Committee and a Fire Chief's Committee, with members from Maryland participating in each. The Police Chiefs Committee is comprised of police officials from local, State, and federal jurisdictions. This committee meets regularly to address current and emerging law enforcement issues and trends and to exchange information and ideas about the delivery of public safety services and other topics of mutual concern. The Fire Chiefs Committee is comprised of officials from local and regional jurisdictions. The Committee meets regularly to address matters pertaining to fire and rescue services, and to exchange information and ideas concerning the delivery of emergency management services and other matters of mutual concern.

Each of these committees has a Communications subcommittee that meets regularly to coordinate on public safety interoperability issues. Each of the committees meets every month or two and meets as a joint public safety communication committee every three or four months. Each subcommittee consists of individuals with specialized expertise and skills related to the public safety communications, and they work and report on critical issues related to these matters.

A prime example of regional coordination for public safety communications is how the Fire Communications Subcommittee, working in conjunction with the Fire Chiefs, applied for federal funds to put together and maintain the NCR Communication Interoperability Group (NCR CIG). The NCR CIG consists of 1,250 portable radios and ancillary support equipment stored in three individual, self-contained, field deployable, caches. These radios are available to support public safety communications within the National Capital Region for emergency and scheduled events. Within two hours of receiving an emergency deployment request the NCR-CIG will be en-route to the requesting agency with a support staff that includes a qualified Communications Unit Leader (COML) and communications technicians. The radios are programmed to operate on the 800/700 MHz Public Safety Radio Systems that are operational in the region. The radios are capable of operating on the Law Enforcement and Fire and Rescue resources used within those systems. The three NCR-CIGs are located, maintained, and managed in the following jurisdictions: Fairfax County, Virginia has 500 radios, Montgomery County, Maryland has 500 radios, and the District of Columbia has 250 radios.

MWCOG also hosts several other committees that the State and local counties participate in relative to interstate regional bodies that are involved with public safety communications:

NCR Executive Interoperability Committee (NEIC) - The NCR Interoperability working group provides oversight in the development of a secure and private technology infrastructure

required to facilitate interoperability for voice, data, and video across the NCR as well as interconnecting emergency operation centers, public safety communication centers (911 operations), other public safety and emergency management offices and first responder field/mobile operations.

Chief Information Officers Committee - The Chief Information Officers (CIOs) Committee is a group that includes CIOs from each jurisdiction in the NCR. The CIOs oversee information technology and projects related to information technology in each jurisdiction. The Committee considers regional information technology issues.

CAO Homeland Security Executive Committee - This subcommittee of the Chief Administrative Officers Committee works closely with the Senior Policy Group (SPG) to manage homeland security programs in the National Capital Region. Its members are the Chief Administrative Officers in each jurisdiction including CAOs, County Managers, and City Managers.

> *c. How does the State plan to engage and leverage these existing regional coordination efforts in the nationwide public safety broadband network planning?*

The State plans continue the relationships it's built with its regional partners in public safety communications on the SIEC, PSC, and continued outreach through the building and implementation of MD FiRST, to plan for the NPSB. We will work closely with the leaders of each of the five interoperability regional committees. We plan to have regional coordinators assigned to each of the interoperability regions to be the outreach liaisons from the State PMO. These coordinators will be the point person for each region to answer questions, provide information to and from FirstNet and the PMO, and to lead workshops and education efforts in the region. The State plans to use the subject-matter expertise of public safety communications that is found in each region as the foundation upon which to plan the requirements for the NPSBN in the State.

Maryland plans to continue to participate in MACINAC and work with the other states in the region to realize the benefits of the regional approach. Though we are not certain at this point where our coordinated efforts will focus (each decision of the group requires consensus), we do expect our efforts to be helpful to the FirstNet consultation process. By providing a mechanism for the states to coordinate their activities and adopt concerted approaches to common tasks, MACINAC will not only ease the consultation process for FirstNet, but it will also help FirstNet execute on a region-wide basis some of the most challenging aspects of network deployment, such as site acquisition and improvement, and backhaul design and deployment. Importantly, MACINAC also will help educate and engage public safety stakeholders throughout the region, thereby creating critical support and buy-in for the NPSBN.

With the OMBN, ICBN, MDBC and the MWCOG, the State is in a fortunate position to have these groups of public safety professionals and broadband experts in the region that are already aware of, and engaged in, coming up with ways to further interoperable communications. The PMO plans to work with members to support the work that they are already doing for public

safety communications and interoperability and to educate and work with them on the planning for the NSPBN. We plan to draw upon their years of expertise in interoperability, as well as their knowledge of the region, its policies, politics, and people.

> *d. Please identify, if applicable, any other state, territory, or regional entity with which the State collaborated or coordinated in the development and preparation of this application and describe the nature of that collaboration or coordination.*

Maryland collaborated and coordinated with the other five states that are members of MACINAC in the development and preparation of some parts of this application, including aspects of the response to this Question 5. Specifically, we shared language for all states to consider including in this response, and we also shared our plans for budget line items to help ensure that each state retained sufficient flexibility to support within SLIGP the cooperative work of the MACINAC states.

> ## 6. Tribal Nations -
>
> *a. How many federally recognized tribes are located within the State boundaries? (If the answer is zero, please skip to question #7.) Information on federally recognized tribes may be located at the Department of Interior, Bureau of Indian Affairs website: http://www.bia.gov/WhoWeAre/BIA/OIS/TribalGovernmentServices/TribalDirectory/index.ht m*

There are no federally recognized Tribal Nations in the State of Maryland.

> ## 7. Rural Coverage
>
> *a. Please classify your local jurisdictions into rural and non-rural areas and identify the criteria used in making these rural and non-rural determinations.*

Rural jurisdictions share common characteristics that set them apart from their suburban and urban counterparts, such as geographic isolation, lack of transportation, and lack of access to and availability of health care. According to the Rural Maryland Council, the 1.6 million people living in Maryland's 18 rural counties continue to face a variety of challenges, from changing economic conditions to an aging population to inadequate access to health care to a deteriorating or inadequate physical infrastructure.

The State of Maryland uses two definitions to classify its jurisdictions: the State definition in the Annotated Code of Maryland and the federal Office of Rural Health Policy definition. Those jurisdictions that are mandated by Maryland's Annotated Code to have representatives on the Rural Maryland Council are considered rural in the State, which are 18 of the 24 jurisdictions in Maryland.

Md. Code Ann. State Fin. & Proc. § 2-207 (2013) (a)(7) "Rural area" means:

(i) the following counties:

1. Allegany;
2. Calvert;
3. Caroline;
4. Carroll;
5. Cecil;
6. Charles;
7. Dorchester;
8. Frederick;
9. Garrett;
10. Harford;
11. Kent;
12. Queen Anne's;
13. St. Mary's;
14. Somerset;
15. Talbot;
16. Washington;
17. Wicomico; and
18. Worcester; and
(ii) portions of other counties in close proximity to agricultural activity.

(8) "Rural community" means an incorporated or unincorporated area of a county or group of counties in a rural area.

All the jurisdictions where at least two-thirds of the census tracts are classified as rural by the federal Office of Rural Health Policy (ORHP) are included in the "federally designated rural" group. These jurisdictions tend to fare worse in health and economic status because they are generally more isolated and have smaller and older populations than the other jurisdictions. The ORHP classifies the following Maryland jurisdictions as rural:

- Allegany
- Caroline
- Dorchester
- Garrett
- Kent
- Somerset (5 out of 7 census tracts)
- St. Mary's

- Talbot
- Worcester

The remaining six jurisdictions in Maryland are classified as either urban or suburban. Baltimore City is the only urban jurisdiction in Maryland. The five suburban jurisdictions in Maryland are:

- Anne Arundel
- Baltimore County
- Howard
- Montgomery
- Prince George's

According to the State Department of Rural Health, rural Maryland represents nearly 30 percent of Maryland's population and almost 80 percent of Maryland's land area. This map shows the overlay of both the State-designated rural areas and the Federal-designated rural areas:

Maryland Rural Areas, 2008

Designation Key
- Non-Rural
- State rural designation*
- Federal and State rural designation**
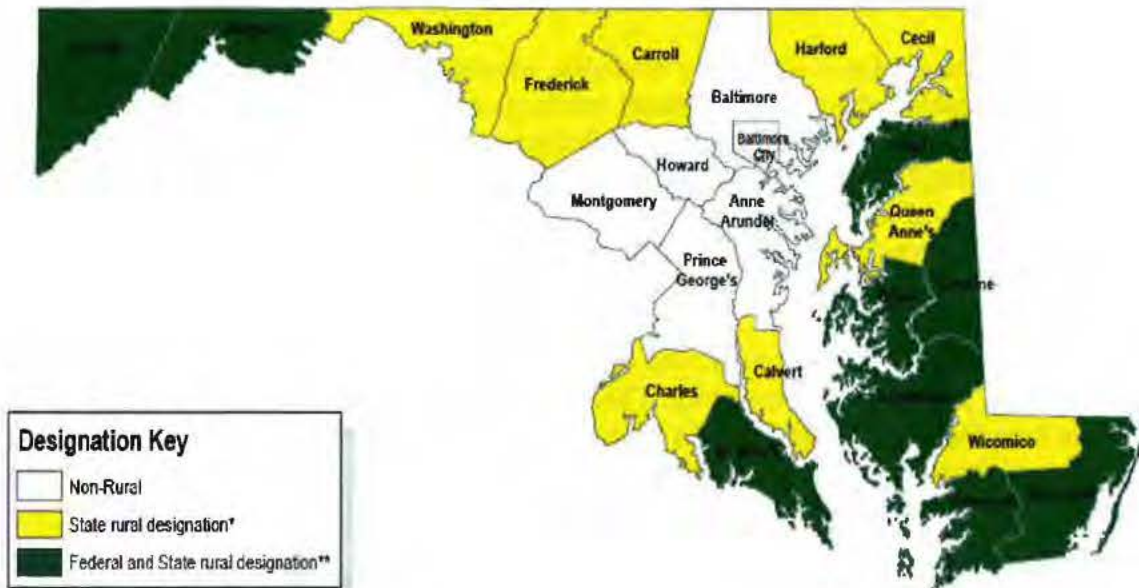
*Counties with State rural designations are those counties mandated by Maryland code to have respresentation on the Rural Maryland Council.

**Counties with Federal rural designations are those defined by the federal Office of Rural Health Policy (ORHP) as rural for the purposes of ORHP funding eligibility. This map shows those counties that are entirely rural, except for Somerset, where five out of the seven census tracts are rural.

Prepared by the Maryland State Office of Rural Health located in the Office of Health Policy and Planning, Family Health Administration, Maryland Department of Health and Mental Hygiene.

Each county designated by Maryland State law as rural is represented on the Rural Maryland Council. The RMC is a state rural development Council and an independent state agency established under Title 13, Subtitle 4 of the Economic Development Article of the *Annotated Code of Maryland*. The RMC brings together citizens, community-based organizations, federal, state, county, and municipal government officials as well as representatives of the for-profit and nonprofit sectors to collectively address the needs of Rural Maryland communities. The leadership of the RMC plans to partner with the State PMO to reach out to its members and constituents to educate them on the NPSBN.

> *b. Please describe the coverage area and availability of broadband service and LTE technology in the rural areas of the State as defined in response to 7.a.*

Residents living in rural areas of the State as defined in answer 7.a., and in fact, all residents of the State, are able to determine the coverage and availability of broadband service with an interactive website: broadband.maryland.gov.

The Maryland Broadband Map is a publicly available, interactive online map application that features timely information about the broadband services available in Maryland. The map helps residents find the types of broadband services available near where they live and work, contact information for Maryland's broadband service providers, and the results of speed tests in their area of interest. The speed test performs key measurements to determine the overall quality and performance of your Internet connection. It evaluates download speed, upload speed, and ping speed.

The speed test is a two-step process. First, you take the speed test and enter your location. Then, you will be asked to complete a short survey. The State needs help from residents to accurately identify where broadband coverage exists in Maryland and to determine the level of performance being experienced. As the State collects and analyzes the data, we can determine where we need to build and improve upon broadband coverage across the entire State.

We encourage Maryland residents to take the speed test from their homes by computer. We also encourage business owners to take the speed test from business locations. Residents and business owners can take the speed test as many times as they wish, and in fact, we encourage people to take the speed test more than once, since speeds will vary.

DEPARTMENT OF BUSINESS & ECONOMIC DEVELOPMENT

Maryland's Broadband Map

Search

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INTRODUCTION **BROADBAND MAP** DBED STATESTAT

MARYLAND
BROADBAND MAP beta

Broadband Coverage

Speed Test Results

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Partners
Contact
Disclaimer

Get Started	Data	Results

Find Address: Address, Zip GO   Zoom To ▼   Aerial View ▼   Help

❌ 🔖 🐦 f ✉

Selected Location:

-77.11875, 39.65710

⬚ Census Block: 240135020002011

⚠ Unserved Area

View Previous Location ▼

Providers
AT&T (MW)
Comcast (C)
HughesNet (S)
Skycasters (S)
Sprint (MW)

Report an Unserved Area

Report an Error on the Map

Take the Speed Test

140

1 km

0.5 mi

90
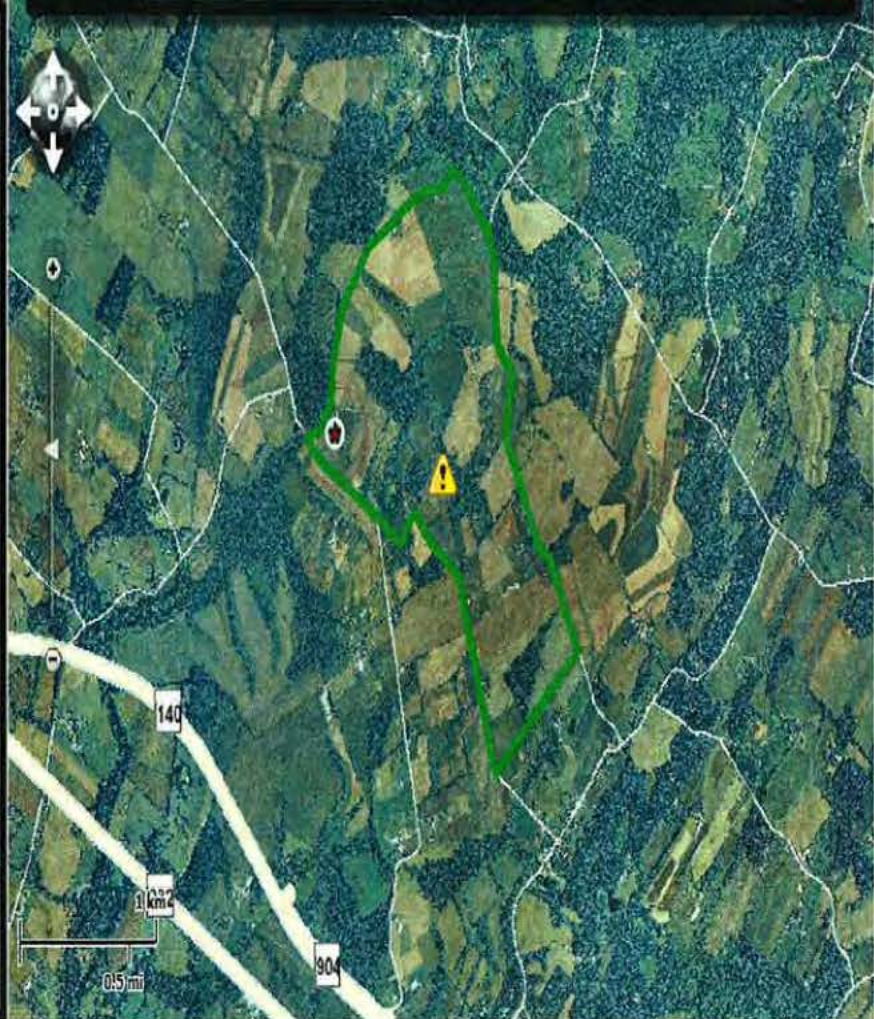
Get the Flash Player to see these images.

The map also allows residents to report unserved areas. The online questionnaire:

Report an Unserved Address

Tell us about your location's broadband availability by completing this form.

Is broadband Internet access available at your address (other than through satellite service):*

◉ No

◯ Yes

If broadband or additional broadband service options were available in your area would you purchase it if the service met your performance needs and was priced competitively:*

◉ No

◯ Yes

You may use the space below to give us additional information about broadband:

Email Address:*

Location Address
Street Address:

Zip Code:*

The map is maintained by the Maryland Broadband Mapping Initiative (MBBMI), Maryland's project to develop and maintain a publicly accessible, interactive broadband inventory map showing the geographic extent that broadband service capability is deployed and available from a commercial or public provider throughout the state. The MBBMI partnership is led by the Maryland Broadband Cooperative (MDBC) and comprises Salisbury University, Towson University, Maryland Department of Business and Economic Development, and Maryland's State Geographic Information Officer. Deliverables from MBBMI include a comprehensive statewide broadband inventory, a publicly available interactive Maryland Broadband Map, and contribution of the state's data to the National Broadband Map (http://broadbandmap.gov/) two times a year.

The team is working with broadband providers to define where broadband service is currently available in order to identify areas where there are gaps in broadband availability. By

participating in this effort, broadband providers can benefit from additional research that will help them extend service into areas that are currently unserved.

The Maryland Broadband Map can also help grow businesses. The Map is designed to assist Maryland consumers and businesses find provider partners that can serve their ever expanding broadband needs. In fact, it is the most used GIS-based Map in the State of Maryland. The value a provider can realize from its participation is driven by the provider's commitment to it. The more data a provider inputs into the map, and the more accurate that data is, the easier it is for potential customers to find providers.

> *c. Please describe how the State plans to prioritize the grant activities to ensure coverage in, and participation by, rural areas. Please include specific plans, milestones, and metrics to demonstrate how you will achieve these requirements.*

Maryland has worked diligently to provide coverage to all regions of the State for public safety during our Statewide 700 MHz Communications project. The lessons learned from this activity will support the deployment of FirstNet to all areas of the State including rural areas. Our propagation studies indicate the location and number of sites to provide total State coverage. Maryland plans to focus our activities by using the same regional planning areas as defined in our SCIP which includes all rural areas.

The State is also fortunate to have two organizations focused on the needs and interests of rural Maryland that are willing to partner with us to ensure coverage in, participation by, rural areas in the NPSBN.

We plan to leverage the depth and breadth of knowledge about rural Maryland itself by partnering with the Rural Maryland Council (RMC). Since 1994, the RMC has been working to improve the rural quality of life by achieving effective solutions and bringing together a diverse partnership of federal, state, and local government officials and representatives from the private nonprofit and for-profit sectors to form a strong collective voice dedicated to addressing the critical issues facing Rural Marylanders. The success of the RMC depends on the strength of its Executive Board, membership and Working Committees. Its general membership includes several hundred people -- each of whom brings a unique perspective, background, knowledge, and skill set to the table. The State PMO plans to work closely with the RMC leaders and members to ensure that all stakeholders are represented and participate in this project.

We plan to leverage the depth and breadth of knowledge about broadband planning in rural Maryland by partnering with the Maryland Broadband Cooperative (MDBC). The MDBC is a member-owned and operated universal access, fiber optic network designed to deliver an advanced, world-class broadband network across the rural communities Eastern, Southern and

Western Maryland, fostering economic development and supported by its members that will provide Last Mile services. The network is an enabling resource that, if successfully utilized, will help attract new employment opportunities and contribute towards improved health care, education and government services. Through a regional approach, local businesses and government are working together to take advantage of this advanced, high-speed network.

The MDBC works with local communities and their regional councils, the Maryland Department of Business and Economic Development, and members to develop the full economic potential of this world class high-technology network. Specifically, the MDBC provides for:

- A true private/public partnership, including public participation in the governance of the enterprise providing the advanced telecommunications network infrastructure;
- An organization to construct, manage and operate the network, which will include, through strategic alliances, experienced telecommunications network providers;
- State-of-the-art technology/network architecture, including a route that traverses the Eastern Shore, Southern and Western areas of Maryland, provides connectivity to industrial parks, and will be part of a much larger broadband network running throughout the Mid-Atlantic region into Washington, DC and key Government and Private industry centers.
- Reliance on public funding only as necessary to make the project viable and to bring economic development and quality-of-life benefits to the region, including leveraged funds from the DBED, EDA, Department of Agriculture, and other State & Federal sources.
- Substantial economic development/competitive advantages.

Tapping in to the vast knowledge and lessons learned that this organization has about the planning and deployment of broadband in rural Maryland will only strengthen our work to plan for this broadband network for public safety partners. Preliminary plans include quarterly meetings with the groups to inform them of FirstNet activities and ensure they have input to State and regional planning activities. The Broadband Outreach position will be the position responsible for maintaining contact and soliciting input from these groups. A more detailed plan will be developed once the Broadband Outreach position is filled.

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8. Existing Infrastructure

a. What, if any, databases exist that collect data on government-owned wireless and/or communications infrastructure for the state, local, and/or tribal governments?

DoIT has created a database of communications facilities within the State in 2007 and maintains that database through cooperation of the Technical Subcommittee of the Practitioners Steering Committee, under the SIEC.

> b. If these databases exist, what is the process for updating them and how often do these updates occur?

Now that the State has initiated the MD FiRST project updates to the State's infrastructure are provided by the vendor and are updated in the DoIT database as each new phase is completed (annually).

	A	B	C	R	S	T	U	V	W	X
1	Phase	Site #	SITE NAME	MW	FIBER	NetGuardian	Radio Rack Count	NEC Rack Count	Console Rack Count	Total Rack Count
2	1-1	1	Sandy Point	X	X	X-NEC	3	1		4
3	1-2	2	Solley	X		X-NEC	2	1		3
4	1-3	3	Parole (under tower)		X	X-Moto	2			2
5	1-3a	3a	Parole	X	X	X-NEC		1		1
6	1-4	4	Crownsville MIEMSS	X-exist		X-Moto	2	1*		2
7	1-5	5	BWI DPG 8th Floor		X	X-NEC	2	1		3
8	1-5a	5a	BWI DPG 9th Floor							
9	1-5b	5b	BWI MAC						Existing	0
10	1-6	6	Pikesville HQ	X	X	X-Moto	10	1		11
11	1-7	7	Golden Ring Barrack	X		X-Moto	2	1	1	4
12	1-8	8	Bush Street	X	X	X-Moto	2	1		3
13	1-9	9	Dundalk Marine Terminal	X		X-Moto	2	1		3
14	1-10	10	Kingsville	X		X-Moto	2	1		3
15	1-11	11	World Trade Center	X-exist	X	X-Moto	2	1		3
16	2-12	12	Elkton SHA	X	X	X-Moto	3	1		4
17	1-13	13	JFK Hwy Lower Shelter	X	X		2	1		3
18	1-13a	13a	JFK Hwy Upper Shelter	X-exist	X	X-Moto			1	1
19	1-13b	13b	JFK Police Barracks		X				Existing	1
20		13c	JFK Room 110		X					
21	1-13d	13d	JFK Maint North							
22	1-13e	13e	JFK Maint South							
23	1-13f	13f	JFK Scale NB							
24	1-13g	13g	JFK Scale SB							
25	2-14	14	North East Barrack Dispatch	X	X	X-Moto	2	1		3
26	2-14a	14a	North East Barrack Computer Room		X				1 + existing	2
27	2-14b	14b	North East Barracks Shelter	X	X	X-NEC				
28	2-14c	14c	North East Barracks TX Room		X				1	1
29	1-15	15	Joppa	X		X-Moto	3	1		4
30	1-16	16	Lapidum	X		X-Moto	2	1		3
31	1-17	17	Stoney Forest	X		X-Moto	2	1		3
32	1-18	18	Matapeake	X-exist	X	X-Moto	3	1		4
33	1-19	19	FMT 5th Floor		X	X-NEC	1 Cab/1 Rack	1	4	5

H ◄ ► H \ PH2 Implementation Plan \ **TOTAL LOCATION MATRIX** /

Ready

9. Existing Government-Owned Networks

a. Describe how you plan to identify any hardening, security, reliability, or resiliency requirements that are currently required for existing government-owned networks within the State, including those networks at the local and tribal governments.

The primary government network in the State is networkMaryland, the statewide data network run by DoIT. Today, networkMaryland serves public safety users within the state. Core nodes within the network are co-located with public safety facilities, such as PSAPs, EOCs, and public safety communications towers. An analysis of all of networkMaryland's points-of-presence will identify any facilities that need to be hardened. Since networkMaryland leverages county assets, part of the planning process of the grant will be to reach out to the county partners and work to identify facilities that the State would rely upon for broadband data that are not hardened.

> *b. Describe how you plan to identify any existing contractual requirements regarding hardening, security, reliability, or resiliency for commercial carriers providing wireless data services within the State, including those at the local and tribal governments.*

We plan to use SLIGP to identify existing contractual requirements regarding hardening, security, reliability, or resiliency for commercial carriers that provide wireless data services in Maryland.

10. Network Users

> *a. Describe how you plan to identify the potential users of the nationwide public safety broadband network within the State, including at the local and tribal governments.*

Maryland has conducted workshops to get local jurisdictions and State agencies thinking about their needs and likely usage of the NPSBN. Once we have staff on board, they will use a standardized form to collect the data required by FirstNet from all potential stakeholder organizations by region. Maryland plans to use a combination of surveys to potential network users along with a coordinated outreach effort. A State Broadband Outreach Administrator will coordinate the activities of five regional coordinators who will focus on FirstNet activities. This model has proven successful in our NECP Goal activities by providing a single individual focused on education of the stakeholders, gathering and recording data, and reporting to the State any needs or concerns. We have found that because public safety officials have full-time activities along with attending to emergencies they require assistance to complete additional activities such as those described above.

11. Education and Outreach

> *a. Describe how you plan to educate and train multi-discipline, public safety and other government users of the nationwide public safety broadband network at your State, local, and tribal levels.*

Maryland has already established a website for dissemination of information.
https://sites.google.com/site/mdprepfirstnet/

We plan to use SLIGP funds to conduct workshops, webinars, and training sessions with a wider audience during the planning stage of this program. Maryland relies on our five Interoperability Regions for coordination and planning as well as representation on our SIEC. Due to the heavy workload of public safety and emergency management personnel, a regional coordinator will be assigned to each region to focus on FirstNet activities and ensure that each region has a voice in the planning and decision making that will take place over the course of the planning and building of the Nationwide Public Safety Broadband Network. Each regional coordinator will educate the stakeholders, monitor State and FirstNet activities, schedule meetings, conduct surveys, record meetings and discussions, and report to the State Broadband Outreach Coordinator.

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12. Memorandum of Agreements

a. Describe any specific obstacles, laws, and/or legal issues that will likely impede your ability to participate fully in the nationwide public safety broadband network or in SLIGP.

There are no specific obstacles, laws, and/or legal issues known in the State of Maryland at this point in time of the application.

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13. Tools

a. What are some of the software tools that the State has used and could apply to the planning and data collection activities associated with this program?

Maryland has entered much of its tower inventory into CASM as well as Google Earth.

Additional information is captured in OSPInsight (statewide fiber documentation for Counties and the State), as well as in the State's central GIS database MDiMap.

The MD FiRST Project has also entered fiber and microwave backhaul into Google Earth for reference.

b. Is the State aware of additional tools that could be useful for implementing allowable grant activities?

No, the State unaware of additional tools that could be useful for implementing allowable grant activities.

14. Phase Two Funding

a. Describe the activities that you expect to undertake with the Phase 2 funding when it is made available to the State, Territory, or District.

The State plans to continue its activities under Phase 1 and to implement the data collection requirements from FirstNet and NTIA once they are formulated. Maryland understands that the SLIGP funds will be provided in two phases.

15. Other

a. Please list any consultants, vendors, or other entity that assisted in the preparation of this application.

The All Hazards Consortium helped ensure a regionally coordinated response across the mid-Atlantic States.

FORM **CD-511**
(REV 1-05)

CERTIFICATION REGARDING LOBBYING

U.S. DEPARTMENT OF COMMERCE

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, 'New Restrictions on Lobbying.' The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over $100,000 or a loan or loan guarantee over $150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying.' in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure occurring on or before October 23, 1996, and of not less than $11,000 and not more than $110,000 for each such failure occurring after October 23, 1996.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure occurring on or before October 23, 1996, and of not less than $11,000 and not more than $110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

* NAME OF APPLICANT

Maryland Department of Information Technology

* AWARD NUMBER	* PROJECT NAME
2013-NTIA-SLIGP-01	Maryland Broadband Planning and Implementation Project

Prefix:	* First Name:	Middle Name:
Ms.	Lori	

* Last Name:	Suffix:
Stone	

* Title: Analyst

* SIGNATURE:	* DATE:
Lori Stone	03/15/2013

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C.§§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation

Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U. S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.

15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.

16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	* TITLE
Lori Stone	Analyst
* APPLICANT ORGANIZATION	* DATE SUBMITTED
Maryland Department of Information Technology	03/15/2013

Standard Form 424B (Rev. 7-97) Back

MARTIN O'MALLEY
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STATE HOUSE
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(410) 974-3901
(TOLL FREE) 1-800-811-8336

TTY USERS CALL VIA MD RELAY

March 5, 2013

Lawrence E. Strickling
Assistant Secretary for Communications and Information and Administrator,
National Telecommunications and Information Administration (NTIA)
U.S. Department of Commerce
1401 Constitution Ave., N.W.
Washington, D.C. 20230

Dear Secretary Strickling:

The Middle Class Tax Relief and Job Creation Act of 2012 (Act) directs NTIA to establish a grant program to assist State, regional, tribal, and local jurisdictions with identifying, planning, and implementing the most efficient and effective means to use and integrate the infrastructure, equipment, and other architecture associated with the nationwide public safety broadband network to satisfy the wireless broadband and data services needs of their jurisdictions.

The State of Maryland welcomes this State and Local Implementation Grant Program (SLIGP) and appreciates the tremendous opportunity it presents to participate in the planning, education, and outreach stages for the deployment of the network.

I have appointed Mr. Ray Lehr, our Statewide Interoperability Director, as the single officer to serve as the coordinator of implementation of the SLIGP grant funds. Mr. Lehr is a full-time employee of the Maryland State Police and reports directly to Colonel Marcus Brown, Superintendent of the Maryland State Police and Chairman of our Statewide Interoperability Executive Committee (SIEC). If you have any questions, please don't hesitate to contact me or Mr. Lehr at 410-533-4610 ray.lehr@maryland.gov.

Sincerely,

Governor