

OHIO STATEWIDE COMMUNICATION INTEROPERABILITY PLAN



November 2018

Developed with Support from the
Cybersecurity and Infrastructure Security Agency (CISA), Emergency Communications Division (ECD)

INTERNAL WORKING DOCUMENT

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LETTER FROM THE SWIC

Greetings,

I am pleased to present the 2018 Ohio Statewide Communication Interoperability Plan (SCIP). This SCIP represents Ohio's continued commitment to improving emergency communications interoperability and supporting the public safety practitioner community throughout the state. In addition, this updated SCIP is also required by the recently released FY2018 Department of Homeland Security (DHS) grant guidelines, which require each state to update its SCIP and designate a full time Statewide Interoperability Coordinator (SWIC).

With support from the Cyber and Infrastructure Agency (CISA), Emergency Communications Division (ECD), representatives from the Ohio Statewide Interoperable Communications Executive Committee (SIEC) and local agencies from across the state collaborated to rewrite the SCIP to include actionable and measurable goals and objectives. These goals focus on governance, incident response and coordination, notifications, alerts and warnings, as well as reporting and requests for assistance. Developing our strategy around these three aspects of the rapidly evolving emergency communications landscape will support our state in achieving the enhanced interoperable emergency communications necessary to ensure public safety. The goals and objectives in this strategic document also include priorities and activities identified by Ohio's delegation during the National Governors Association (NGA) Southwest Regional Meeting held in Albuquerque, New Mexico on March 20-21, 2018. As a result of the updates for 2018, you will find both new and ongoing interoperability objectives in the SCIP. These SCIP Goals also complement the goals in Ohio's Homeland Security Strategic Plan as interoperable communications are integral to each of these plans.

Ohio faces challenges that will require a holistic approach as we work towards achieving public safety interoperability. For the next one-to-three years, this strategic plan will guide our efforts to protect Ohio's citizens through advances in governance, technology, training and exercises, as well as education and outreach for emergency communications.

As we continue to enhance interoperability, we must remain dedicated and continue to improve our ability to communicate among disciplines and across jurisdictional boundaries. With help from public safety practitioners, local and federal agencies, we will work to achieve the goals set forth in this SCIP.

Sincerely,

Richard Schmahl
Ohio Statewide Interoperability Coordinator



EXECUTIVE SUMMARY

On October 18, 2018, Ohio hosted a Statewide Communication Interoperability Plan (SCIP) Workshop to develop goals to improve interoperable emergency communications in the key areas of the emergency communications ecosystem: incident response and coordination, notifications, alerts and warnings, reporting and requests for assistance as well as governance which is critical to the success of all of the aspects of the emergency communications ecosystem and the lanes of the SAFECOM continuum. Ohio's SWIC, Richard Schmahl, designed and conducted the SCIP Workshop after attending the National Governor's Association (NGA) Regional Meeting in Albuquerque on March 20-21, 2018. During the NGA meeting, participants identified action items to support efforts to revitalize the state's governance structure that were then utilized in the planning for the SCIP Workshop.

Participants at the SCIP Workshop included leaders from the Ohio 911 Program Office, Ohio Association of Chief of Police (OACP), Ohio Fire Chiefs' Association (OFCA), Ohio Homeland Security (OHS), Emergency Management Agency (EMA), Ohio State Highway Patrol (OSHP), Department of Administrative Service (DAS) Multi Agency Radio Communications System (MARCS) Division, Buckeye State Sheriffs Association (BSSA), Department of Justice, as well as a variety of stakeholders involved in the emergency management process for the state. Stakeholders leveraged Ohio's participation in the NGA Southwest Regional Meeting to account for planning activities involving new technologies, the emergency communications ecosystem, and to incorporate national efforts and strategies as needed.

Ohio's SCIP is a stakeholder-driven, multi-agency, and multi-disciplinary statewide strategic plan to enhance interoperable emergency communications. The SCIP is a critical mid-range strategic planning tool to help the state develop public safety communications capabilities that supports the elements of the public safety communications ecosystem. This SCIP is an adjunct to and complements the State of Ohio's Homeland Security Strategic Plan.¹

Ohio utilized a collaborative and objective-oriented approach to bring together key stakeholders from across disciplines, agencies, and jurisdictions within the state to participate in the development of a new strategic document that would address the need to keep pace and adapt to an ever-evolving emergency communications ecosystem. Data gathered in advance of the workshop was then assessed during the SCIP workshop to develop new goals and objectives to help position the state of Ohio to meet today's needs and to plan for the integration of emerging technologies.

During the SCIP workshop, participants developed goals to:

- Continue to be a strong supporter to 911 committee of local representatives as they work with the legislature to enact the recommendations
- Continue current path for all public safety communication programs and prepare to fully educate new Governor and staff

¹ Ohio's Homeland Security Plan can be found here: https://homelandsecurity.ohio.gov/doc/OHS_Strategic_Plan.pdf



- In the long term, achieve a seamless, non-duplicative shared public safety communications services system
- Promote flexible SIEC membership composition to be responsive to changing needs
- Ensure all federal grants related to public safety emergency communications are reviewed by a SIEC grants review working group for compliance with the SCIP
- Implement the goals of the Ohio Next Generation 911 plan statewide
- Utilization of 911 capabilities and features for alerts and warnings and responder notifications
- Encourage certification of county IPAWS usage
- Outreach to local governments on how to draft and send IPAWS messaging
- Continue and expand NG911 pilot project
- Standardized usage of statewide encryption
- Each region develops a TICP
- Enhance, encourage, and establish end user training
- Develop a SCIP outreach and information sharing plan

The resulting goals and objectives along with owners, completion dates and measurements are provided within this SCIP.

As mentioned, this updated SCIP supports the fulfillment of requirements included in the FY2018 DHS State Homeland Security Grant Program (HSGP) Notice of Funding Opportunity. It requires that all states and territories update their SCIP by the end of the FY 2018 HSGP period of performance (36 months), with a focus on communications resilience/continuity, to include assessment and mitigation of all potential risks.



TABLE OF CONTENTS

Letter From the SWIC i

Executive Summary..... ii

Introduction..... 1

 Interoperability and Emergency Communications Overview 1

 Vision & Mission..... 3

 Ohio SCIP Overview 3

Overview of Goals & Objectives 5

 Goals, Objectives & Benefits..... 6

Governance..... 8

 Supporting Interoperability in a Dynamic Emergency Communications Landscape 8

Technology 9

 911/Next Generation 911 9

 Notifications, Alerts and Warnings 10

 Broadband 10

 Land Mobile Radio 10

Training, Outreach, and Standard Operating Procedures 12

Implementation Plan..... 13

Appendix A: NGA Roadmap..... 16

Appendix C: List of Acronyms..... 19



INTRODUCTION



Interoperability and Emergency Communications Overview

Reliable, timely communications among public safety responders and between public safety agencies and citizens, is critical to effectively carrying out public safety missions, and in many cases, saving lives.

Traditional voice capabilities, such as land mobile radio (LMR) and landline 911 services have long been and continue to be critical tools for communications. However, the advancement of Internet Protocol (IP) based technologies in public safety, has increased the type and amount of information responders can receive, the tools they communicate with, and the complexity that comes with new and interdependent systems. Both the promise, and challenges new technologies bring increase the need for coordination across public safety disciplines, communications functions, and levels of government to ensure emergency communications capabilities are interoperable, reliable, and secure.

An example of this evolution is the First Responder Network Authority's (FirstNet) implementation of the Nationwide Public Safety Broadband Network (NPSBN). All 50 states, including Ohio, have opted-in to FirstNet. With this new system, agencies will be able to supplement existing LMR capabilities to provide public safety users with spectrum for broadband capabilities, and the means to move and transfer data as never before. Its adoption and implementation will entail close coordination with 911 administrators, dispatch supervisors, LMR systems managers and alerts and warnings managers to ensure interoperability and cybersecurity are coordinated as agencies begin adopting wireless applications for daily operations. Ohio public safety uses a variety of LMR systems, including the Multi-Agency Radio Communication System (MARCS) which is an 700/800 MHz trunked radio system with 97.5% mobile coverage.



Similarly, the transition of Public Safety Answering Points (PSAP) to Next Generation 911 (NG9-1-1) technology will enhance the sharing of critical information in real-time using multimedia—such as pictures, video, and text — among citizens, PSAP operators, dispatch, and first responders. Ohio is currently investigating the costs associated with transitioning to a NG9-1-1 system and standardizing the use of text-to-911 which currently varies widely from PSAP to PSAP. The benefits of NG9-1-1 are tremendous, yet, interfacing all mission critical systems along with governance, standard operating procedures, training and funding are necessary to fully realize the public safety benefits.

The broader emergency communications ecosystem consists of many inter-related components and functions. Participants of the Ohio SCIP workshop focused on three corners of the emergency communications ecosystem to guide the development of their new SCIP goals and objectives. The first corner, incident response and coordination, deals with government to government emergency communications capabilities such as LMR and broadband communications. Notifications, alerts and warnings is the corner of the ecosystem that deals with government to public emergency communications capabilities. Examples of this include IPAWS and media updates. Finally, Ohio focused on reporting and requests for assistance which addresses public to government emergency communications capabilities like 911 and amateur radio. Public information exchange makes up the fourth corner of the ecosystem and deals with public to public emergency communications. This fourth corner of the ecosystem does not involve interaction with the government and is beyond the goals and objectives of the SCIP. The primary functions of the emergency communications ecosystem are depicted in the 2014 National Emergency Communications Plan (NECP)²

The Interoperability Continuum³ was developed by SAFECOM and serves as a framework to address challenges and to continue improving operable/interoperable and emergency communications. It is designed to assist emergency response agencies and policy makers with planning and implementing interoperability solutions for voice and data communications. ECD developed the emergency communications ecosystem to understand the challenges of the new landscape of emergency communications.

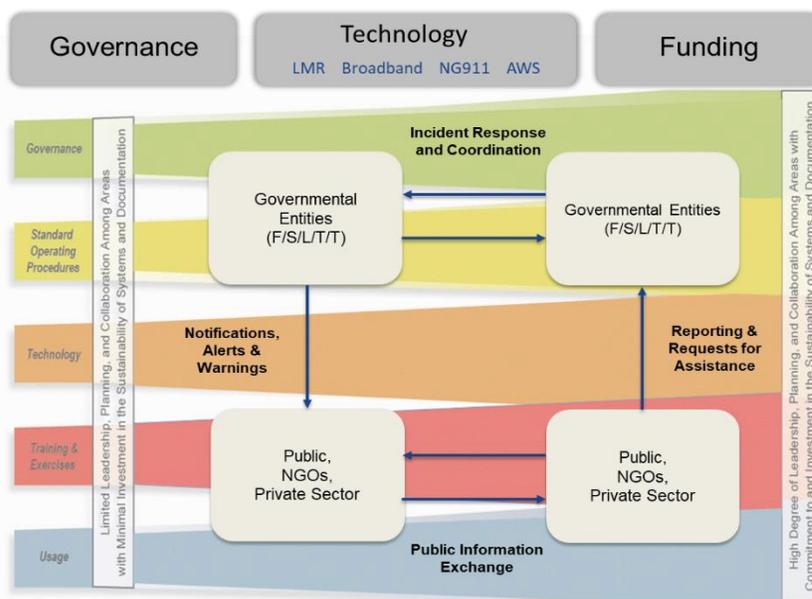


Figure 1: Interoperability Continuum and Emergency Communications Ecosystem

² 2014 NECP can be found here: <https://www.dhs.gov/publication/2014-national-emergency-communications-plan>

³ Interoperability Continuum can be found here: <http://www.safecomprogram.gov/oecguidancedocuments/continuum/Default.aspx>



Vision & Mission

The following are Ohio's SCIP vision and mission statements:

Vision:

The state of Ohio's Vision for interoperable mission-critical communications is to have all responders throughout Ohio operating on a standards-based, shared, system of systems, allowing seamless communications across all disciplines, ultimately offering all users a single integrated platform maximizing operability and interoperability.

Mission:

The mission of the Ohio SIEC is to provide guidance and strategic direction for public safety First Responders in their communications initiatives, for the purpose of continuous improvement in reliable, interoperable mission critical communications. The SIEC will leverage the experience, expertise, and statewide connections of its membership to provide the Directors with independent, timely advice to support decision making across the spectrum of interoperable communications matters.

Ohio SCIP Overview

- **Overview of Goals & Objectives:** Provides an executive summary of the SCIP goals and objectives and their intended benefits.
- **Governance:** Describes the current governance mechanisms for communications interoperability within the state along with lessons learned from the NGA workshop and priorities for improving governance within the evolving landscape.
- **Technology:** Describes the state's approach to overcoming the various technological challenges it faces in the landscape of emergency communications broken down into the key technologies of land mobile radio (LMR), notifications, alerts and warnings, 911, and broadband.
- **Training:** Describes the state's approach to ensuring all stakeholders are continuously trained and up-to-date on relevant policies, procedures, and practices to meet today's needs and to plan for the integration of emerging technologies.
- **Outreach:** Describes collaboration with state, local, tribal, and federal entities and efforts to ensure an understanding of the necessity of the improvement of interoperable emergency communications from agency to agency.
- **Standard Operating Procedures (SOPs):** Describes efforts to develop and implement policies, repetitive established or best practices, and procedures that guide emergency responder interactions and the use of interoperable communications solutions.



- **Implementation Plan:** Describes how Ohio plans to implement, maintain, and update the SCIP to enable continued evaluation of and progress towards the state's interoperability goals.



OVERVIEW OF GOALS & OBJECTIVES



Incident Response and Coordination

This corner of the ecosystem deals with government to government emergency communications capabilities



Reporting and Requests for Assistance

This corner of the ecosystem deals with public to government emergency communications capabilities



Notifications, Alerts & Warnings

This corner of the ecosystem deals with government to public emergency communications capabilities



Governance

The governance goals ensure Ohio meets the public safety needs presented by the emergency communications ecosystem



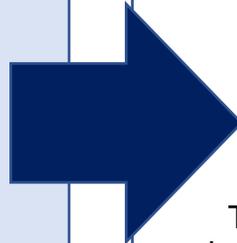
Technology

The state of Ohio will work toward enhancing technologies to allow for better public to government and government to public emergency communication



Outreach, Training & SOPs

The state of Ohio will work towards improving outreach, training, and SOPs statewide to ensure the best possible incident response and coordination.



Goals, Objectives & Benefits

The following section provides an overview of the Ohio SCIP goals, objectives, and benefits, and how activities outlined in this SCIP can drive advancements in interoperability capabilities throughout the state.

Goals	Objectives	Benefits
Continue to be a strong facilitator to 911 committee of local representatives as they work with the legislature to enact the recommendations	<ul style="list-style-type: none"> Educate legislators on benefits of transitioning the state to NG911 	Ensure the best possible development and usage of 911 capabilities in the state
Continue current path for all public safety communication programs and prepare to fully educate new Governor and staff	<ul style="list-style-type: none"> Refine and present a transition package for the new administration including the importance, needs, and historical content 	Ensures the continual state prioritization of statewide interoperability for emergency communication
In the long term, achieve a seamless, non-duplicative shared public safety communications services system	<ul style="list-style-type: none"> Provide education and awareness to stakeholders explaining efficiencies, economies of scale, and resource sharing. Educate the legislators as appropriate Take advantage of Ohio's Lean process 	Ensures statewide interoperability at all levels of government as well as proper usage of emergency communications equipment
Promote flexible SIEC membership composition to be responsive to changing needs	<ul style="list-style-type: none"> Add ODOT and 911 representation to SIEC 	Ensures that the Ohio SIEC is keeping pace with its increasing responsibilities and the ever-evolving landscape of emergency communications
Ensure all federal grants related to public safety emergency communications are reviewed by a SIEC grants review working group for compliance with the SCIP	<ul style="list-style-type: none"> Establish a grant review working group (membership to be further defined) 	Ensures grant funds for emergency communications are used in a way that furthers the goals set in the Ohio SCIP
Implement the goals of the Ohio Next Generation 911 plan statewide	<ul style="list-style-type: none"> SIEC supports the ESInet Steering Committee in the establishment of the goals 	Ensures that Ohio will implement the best possible technology for 911 and meet the current needs of reporting and requests for assistance



Utilization of 911 capabilities and features for alerts and warnings and responder notifications	<ul style="list-style-type: none"> • Develop best practices to address disparities between different mobile applications • Research 911 capabilities and emerging applications to ensure alignment • Identify what 911 features accompany NG911 core capabilities • Identify best practices for filling the gap between enhanced 911 and NG911 	<p>Ensures the best possible usage of mobile applications and emerging capabilities in 911 and alerts and warnings</p>
Encourage certification of county IPAWS usage	<ul style="list-style-type: none"> • 50 counties certified 	<p>Ensuring that all counties can work toward receiving notifications, alerts, and warnings</p>
Outreach to local governments on how to draft and send IPAWS messaging	<ul style="list-style-type: none"> • Develop a standard procedure to familiarize and standardize a public alerting message • Provide outreach and training 	<p>Ensures that local governments are able to oversee the successful application of alerts and warnings</p>
Continue and expand NG911 pilot project	<ul style="list-style-type: none"> • Evaluate the pilot 	<p>Supports efforts towards the achievement of a statewide NG911 system</p>
Standardized usage of statewide encryption	<ul style="list-style-type: none"> • Develop a statewide interoperable encryption plan for encryption users 	<p>Ensures greater interoperability between encryption users</p>
Each region develops a TICP	<ul style="list-style-type: none"> • Current emergency communications assets, procedures, and contacts are documented 	<p>Ensures consistent operating procedures on the local level for interoperable emergency communication statewide</p>
Enhance, encourage, and establish end user training	<ul style="list-style-type: none"> • State to develop training materials • Develop training proficiencies 	<p>Ensures usage of emergency communications equipment and capabilities on the local statewide</p>
Develop a SCIP outreach and information sharing plan	<ul style="list-style-type: none"> • Associations on the SIEC provides packet to agencies 	<p>Ensure collaboration in interoperable emergency communications between different levels of government within the state of Ohio</p>



GOVERNANCE

Supporting Interoperability in a Dynamic Emergency Communications Landscape

Discussions at the NGA Academy revealed a need for the state of Ohio to update the composition of its SIEC by adding new positions for the Ohio Department of Transportation (ODOT) and 911 to meet the increasing and ever-changing responsibilities of the committee. The membership of the ESInet Steering Committee and the county 911 committees on the local level are also a concern for the state of Ohio. Ohio is currently reuniting the membership of county 911 committees on the local levels and the cost to provide NG9-1-1 for local agencies and 911 infrastructure. The SIEC will support the ESInet steering committee in meeting its objective to improve 911 capabilities in the state of Ohio. The lack of alignment of federal grant usage and the objectives of the SCIP are another concern the Ohio SIEC aims to address. There is currently no group that ensures that grant funds are being spent consistently with the SCIP goals. A SIEC grants review working group will be established to review grants and ensure that federal grant money for emergency communications is being used to further the SCIP goals set by the state of Ohio.

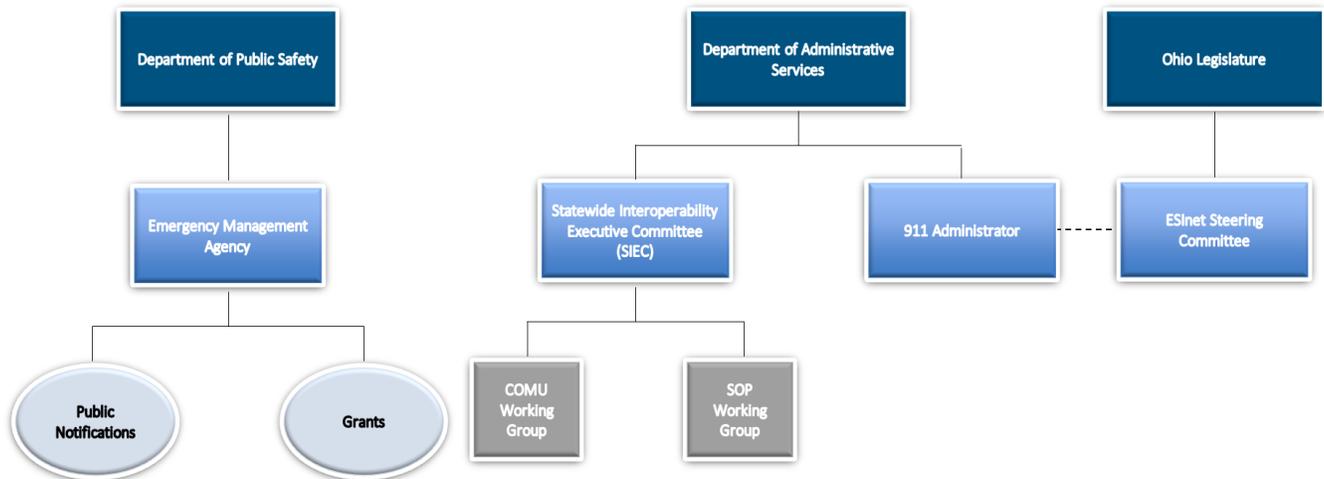


Figure 2: Ohio Governance Structure



Table 1 outlines Ohio's goals and objectives related to Governance.

Table 1: Governance Goals and Objectives



Goals	Objectives
<p>Continue to be a strong supporter to 911 committee of local representatives as they work with the legislature to enact the recommendations</p>	<ul style="list-style-type: none"> • Educate legislators on benefits of transitioning the state to NG911
<p>Continue current path for all public safety communication programs and prepare to fully educate new Governor and staff</p>	<ul style="list-style-type: none"> • Refine and present a transition package for the new administration including the importance, needs, and historical content.
<p>In the long term, achieve a seamless, non-duplicative shared public safety communications services system</p>	<ul style="list-style-type: none"> • Provide education and awareness to stakeholders explaining efficiencies, economies of scale, and resource sharing. • Educate the legislators as appropriate • Take advantage of Ohio's LEAN process
<p>Promote flexible SIEC membership composition to be responsive to changing needs</p>	<ul style="list-style-type: none"> • Add ODOT and 911 representation to SIEC
<p>Ensure all federal grants related to public safety emergency communications are reviewed by a SIEC grants review working group for compliance with the SCIP</p>	<ul style="list-style-type: none"> • Establish a grant review working group (membership to be further defined)

TECHNOLOGY

911/Next Generation 911

Ohio has minimum standards for answering and processing 911 calls which were adopted in 2016 and implemented by 2018. These rules apply to all wireless public safety answering



points (PSAPs). Text to 911 capabilities vary from PSAP to PSAP. These PSAPs are also capable of sending outgoing texts in response to hang up calls to increase efficiency in addressing the high volume of reporting and requests for assistance. Ohio is currently in transition from Enhanced 911 (E911) to NG911. Ohio has a NG911 plan to guide the development of the core services for NG911.

Notifications, Alerts and Warnings

Ohio has created an infrastructure and overlay of the existing EAS system. There is a digital platform utilized to distribute messaging that can reach all IP systems in the state of Ohio. Ohio alert to message transmissions last about an hour. Some counties in Ohio are still not registered or certified for IPAWs. Multi county alerts need to go to the state to ensure notifications, alerts, and warnings are received statewide. There are other systems that are clearly encoded for public safety entities. With the development of next generation television systems, Ohio emergency responders will be able to utilize geo-targeting. This will allow them to provide redundancy.

Broadband

Ohio has opted into FirstNet and has a Broadband subcommittee. Ohio aims to achieve statewide coverage regardless of location within the state. Ohio is also working towards offering increased outreach and education about the different vendor offerings to broadband users. LMR and LTE integration is an issue that is expected to become increasingly complicated as emergency communications continue to evolve.

Land Mobile Radio

Ohio has a statewide system Multi-Agency Radio Communications System (MARCS). It is stable and up to date. Some counties have their own system. Ohio is working towards having a more in-depth study of equipment capabilities before they are sold to customers as well as more seamless interoperability with entities not on the MARCS system. They will also investigate having a budget set aside to build new sites when needed with the aim of increased coverage.



Table 2 outlines Ohio's goals and objectives related to Technology.

Table 2: Technology Goals and Objectives



Goals	Objectives
Implement the goals of the Ohio Next Generation 911 plan statewide	<ul style="list-style-type: none"> • SIEC supports the ESInet Steering Committee in the implementation of the goals
Utilization of 911 capabilities and features for alerts and warnings and responder notifications	<ul style="list-style-type: none"> • Develop best practices to address disparities between different mobile applications • Research 911 capabilities and emerging applications to ensure alignment • Identify what 911 features accompany NG911 core capabilities • Identify best practices for filling the gap between enhanced 911 and NG911
Encourage certification of county IPAWS usage	<ul style="list-style-type: none"> • 50 counties certified
Outreach to local governments on how to draft and send IPAWS messaging	<ul style="list-style-type: none"> • Develop a standard procedure to familiarize and standardize a public alerting message • Provide outreach and training
Continue and expand NG911 pilot project	<ul style="list-style-type: none"> • Evaluate the pilot
Standardized usage of statewide encryption	<ul style="list-style-type: none"> • Develop a statewide interoperable encryption plan for encryption users



TRAINING, OUTREACH, AND STANDARD OPERATING PROCEDURES

Ohio emergency responders statewide have proven that they are capable of establishing interoperable communications having effectively done so during the 2016 Republican National Convention, and the more recent Hocking Hills Fire. The ability of emergency responders to get onto the same talk group and respond to the Ohio State University shooting as had been previously exercised allowed that active shooter event to come to a timelier close.

The Multi-Agency Radio Communications System (MARCS) serves as Ohio's statewide LMR system and allows for statewide interoperability. However, cross border communication continues to be a challenge as well as interoperability at the local to local and county to county level. Ohio aims to address the remaining interoperability challenges by placing increased emphasis on training and outreach. Ensuring that each region has a TICP will also help to ensure the equipment and systems available for establishing interoperability in a region are documented.

Table 3 outlines Ohio's goals and objectives related to Training, Outreach, and Standard Operating Procedures.

Table 3: Training, Outreach, and Standard Operating Procedures Goals and Objectives



Goals	Objectives
Each region develops a TICP	<ul style="list-style-type: none"> Current emergency communications assets, procedures, and contacts are documented
Enhance, encourage, and establish end user training	<ul style="list-style-type: none"> State to develop training materials Develop training proficiencies
Develop a SCIP outreach and information sharing plan	<ul style="list-style-type: none"> Associations on the SIEC provides packet to agencies



IMPLEMENTATION PLAN

The SWIC serves as the chief administrator of the SCIP and is responsible for tracking progress towards achieving the SCIP goals. The Ohio SIEC will add the objectives assigned to its committees as formal agenda items for review and oversight during regular meetings. The SWIC and working group members will provide status updates and coordinate collaborative action and planning to ensure continued progress. The SIEC will also conduct a thorough review of the SCIP on a biennial basis to update strategies and tactics to address identified needs and advancements involving statewide emergency communications capabilities.

Table 4 outlines the measures of success, assigned owners, and timelines for achieving the goals and objectives.

Table 4: Measures of Success, Owners, and Timelines

Goal	Objectives	Measures of Success	Owners	Completion Date
Continue to be a strong supporter to 911 committee of local representatives as they work with the legislature to enact the recommendations	<ul style="list-style-type: none"> Educate legislators on benefits of transitioning the state to NG911 	Operational NG911 core services	ESInet Steering Committee and local 911 authorities	October 2022
Continue current path for all public safety communication programs and prepare to fully educate new Governor and staff	<ul style="list-style-type: none"> Refine and present a transition package for the new administration including the importance, needs, and historical content 	Reissued executive order related to the SIEC	SWIC/ SIEC co-chairs	March 2019



<p>In the long term, achieve a seamless, non-duplicative shared public safety communications services system</p>	<ul style="list-style-type: none"> • Provide education and awareness to stakeholders explaining efficiencies, economies of scale, and resource sharing. • Educate the legislators as appropriate • Take advantage of Ohio's Lean process 	<p>Seamless interaction among various governance bodies</p>	<p>SIEC, ESInet Steering Committee, State Emergency Communications Committee (SECC)</p>	<p>October 2020</p>
<p>Promote flexible SIEC membership composition to be responsive to changing needs</p>	<ul style="list-style-type: none"> • Add ODOT and 911 representation to SIEC 	<p>SIEC composition updated for current operational environment</p>	<p>SWIC and SIEC co-chairs</p>	<p>March 2019</p>
<p>Continue and expand NG911 pilot project</p>	<ul style="list-style-type: none"> • Evaluate the pilot 	<p>Successful analysis and report of pilot project</p>	<p>911 Program Office</p>	<p>October 2019</p>
<p>Ensure all federal grants related to public safety emergency communications are reviewed by a SIEC grants review working group for compliance with the SCIP</p>	<ul style="list-style-type: none"> • Establish a grant review working group (membership to be further defined) 	<p>The working group is created and actively reviewing grants</p>	<p>SWIC and SIEC co-chairs</p>	<p>June 2019</p>
<p>Standardized usage of statewide encryption</p>	<ul style="list-style-type: none"> • Develop a statewide interoperable encryption plan for encryption users 	<p>Development of statewide encryption policy</p>	<p>SWIC, system owners, and SOP subcommittee</p>	<p>June 2020</p>
<p>Implement the goals of the Ohio Next Generation 911 plan statewide</p>	<ul style="list-style-type: none"> • SIEC supports the ESInet Steering Committee in the establishment of the goals 	<p>NG911 network is fully integrated</p>	<p>ESInet Steering Committee</p>	<p>October 2022</p>



Utilization of 911 capabilities and features for alerts and warnings and responder notifications	<ul style="list-style-type: none"> • Develop best practices to address disparities between different mobile applications • Research 911 capabilities and emerging applications to ensure alignment • Identify what 911 features accompany NG911 core capabilities • Identify best practices for filling the gap between enhanced 911 and NG911 	Sending the 911 feature information as needed for responder notifications, alerts and warnings*	Local 911 administrators, ESInet Steering Committee, Operations Subcommittee, and PSAPs	June 2023
Encourage certification of county IPAWS usage	<ul style="list-style-type: none"> • 50 counties certified 	All counties are certified	EMA	June 2021
Outreach to local governments on how to draft and send IPAWS messaging	<ul style="list-style-type: none"> • Develop a standard procedure to familiarize and standardize a public alerting message • Provide outreach and training 	Clear, concise, and consistent messaging to public entities	EMA	June 2019, ongoing
Each region develops a TICP	<ul style="list-style-type: none"> • Current emergency communications assets, procedures, and contacts are documented 	Each region has a TICP utilizing the standard template	SWIC and SIEC regional chairs	June 2020
Enhance, encourage, and establish end user training	<ul style="list-style-type: none"> • State to develop training materials • Develop training proficiencies 	Training plan and materials are made available to end users	SIEC association representatives and EMA	June 2020
Develop a SCIP outreach and information sharing plan	<ul style="list-style-type: none"> • Associations on the SIEC provides packet to agencies 	Plan is developed and proactively shared with stakeholders	SIEC regional chairs and association representatives	December 2019



APPENDIX A: NGA ROADMAP

This roadmap was developed at the March 2018 National Governors Association (NGA) Workshop by participants representing Ohio's emergency communications capabilities.

Activity	Target Completion	Owner	Additional Notes
<i>(Title/description)</i>	<i>(3, 6, 9, 12+ months)</i>	<i>(Individual/Organization)</i>	<i>(Other relevant information)</i>
Continue to be a strong supporter to 911 committee of local representatives as they formulate recommendations for the legislature	<p>Within one month - finalize committee recommendations</p> <p>3 months - provide recommendations to legislature</p> <p>12 months - move forward with legislation or other plan for NG911</p>		<p>At upcoming meetings, explain transition timing and investment in NG911</p> <p>Provide detailed information for costs, infrastructure, and logistics</p> <p>Provide expert resources to committee members and respond to all inquiries in a timely manner</p>
Continue on current path for all public safety communication programs and prepare to fully educate new Governor and staff	9 months - have information packet/briefing prepared		Prepare for education session after election (contents will vary based on requests); create a briefing packet
In the long term, set up a seamless, non-duplicative shared public safety communications services system	No set actions in next 12 months		Provide education and awareness to possible customers explaining efficiencies, economy of



			<p>scale, and potential data sharing</p> <p>Educate legislators as appropriate</p> <p>Facilitate Governor’s determination of scope of the system as appropriate</p> <p>In the short term, if opportunities present themselves, the core team will take advantage of it - observe the landscape and environment</p> <p>Take advantage of Ohio’s use of LEAN process to increase efficiency</p>
Continue and expand NG911 pilot project	<p>6 months - add 3 additional counties to the pilot</p> <p>12 months - evaluate pilot based on current state of NG911 legislation</p>		Already in place
Promote flexible SIEC membership composition to be responsive to changing needs	<p>Week 1: SWIC tells CIO of interest in EO change</p> <p>Governor’s office representative assesses</p>		<p>Create awareness of need within the Governor’s Office</p> <p>Explore the process for EO modification to Appendix</p>



	<p>process for EO modification with legal</p> <p>Governor's office representative reaches out to SWIC with results</p> <p>1 month: SWIC determines timeline for EO modification and roll-out strategy including member identification</p>		
<p>Determine a meeting cadence for the core team to follow up on the plan</p>			



APPENDIX C: LIST OF ACRONYMS

CIO	Chief Information Officer
DHS	U.S. Department of Homeland Security
EMA	Emergency Management Agency
ESINet	Emergency Services Internet Protocol Network
eFOG	Electronic Tactical Interoperable Communications Field Operations Guide
E911	Enhanced 911
EAS	Emergency Alert System
ECD	Emergency Communications Division
EO	Executive Order
ESINet	Emergency Services Internet Protocol Network
HSGP	Homeland Security Grant Program
ICTAP	Interoperable Communications Technical Assistance Program
IP	Internet Protocol
IPAWS	Integrated Public Alert and Warning System
ITSL	Information Technology Service Unit Leader
LMR	Land Mobile Radio
LTE	Long-Term Evolution
MARCS	Multi-Agency Radio Communications System
NECP	National Emergency Communications Plan
NGA	National Governors Association
NG911	Next Generation 911
OACP	Ohio Association of Chiefs of Police
ODOT	Ohio Department of Transportation
OFCA	Ohio Fire Chiefs' Association
OHS	Ohio Homeland Security
OSHP	Ohio State Highway Patrol
PSAP	Public Safety Answering Point
SCIP	Statewide Communication Interoperability Plan
SECC	State Emergency Communications Committee
SIEC	Statewide Interoperability Executive Committee
SOP	Standard Operating Procedure
SWIC	Statewide Interoperability Coordinator
TA	Technical Assistance

