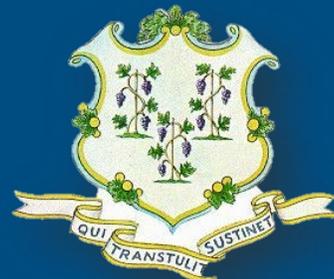




# State of Connecticut

## Statewide Communication Interoperability Plan (SCIP)

Adopted: December 2016



## EXECUTIVE SUMMARY

The Connecticut Statewide Communication Interoperability Plan (SCIP) is a stakeholder-driven, multi-jurisdictional, and multi-disciplinary statewide strategic plan to enhance interoperable and emergency communications. The SCIP is a critical mid-range (three-to-five year) strategic planning tool to help Connecticut prioritize resources, strengthen governance, identify future investments, and address interoperability gaps.

The purpose of the Connecticut SCIP is to:

- Provide the strategic direction and alignment for those responsible for interoperable and emergency communications at the state, regional, local, and tribal levels.
- Explain to leadership and elected officials the vision for interoperable and emergency communications and demonstrate the need for funding.
- Serve as a guide to engage the right stakeholders to prioritize activities and ensure the Connecticut Public Safety State Interoperability Executive Committee (CPSSIEC, abbreviated SIEC for the purpose of this document) is on target to meet the SCIP's goals and initiatives

The following are Connecticut's Vision and Mission for improving emergency communications operability, interoperability, and continuity of communications statewide.

**Vision:** Provide and sustain a common interoperable communications pathway for all involved stakeholders.

**Mission:** By 2020, provide and sustain a standards-based telecommunications infrastructure that will allow for secure, timely, efficient, and cost-effective statewide interoperability (meaning operationally-appropriate compatible systems and data platforms, e.g. voice, video, and data) for all public safety and other partners (e.g., federal, state, regional, local tribal nations, private sector, and non-governmental organizations).

The following strategic goals represent the priorities for delivering Connecticut's vision for interoperable and emergency communications.

- Governance :
  - Update and enhance inter-state and intra-state regional coordination on operable and interoperable communications activities and efforts.
  - Continue presence on national committees (e.g., Public Safety Advisory Committee [PSAC], Northeast States Emergency Consortium [NESEC], Regional Emergency Communications Coordination Working Groups [RECCWGs], National Emergency Management Association [NEMA], National Council of Statewide Interoperability Coordinators [NCSWIC], SAFECOM).
  - Ensure required expertise remains on the SIEC and as technical experts in the field (i.e., the sustainment of human assets).

- Capture information regarding available assets in a centralized location.
- Standard Operating Procedures (SOPs) :
  - Build on established SOPs to include non-traditional public safety response partners (e.g., utilities, non-governmental organizations [NGOs]) in initial notification of an incident or event.
  - Document agreements (e.g., Emergency Management Assistance Compact [EMAC], memoranda of understanding [MOUs], memoranda of agreement [MOAs]) to utilize Communications Unit Leader (COML)/Communications Unit Technician (COMT) resources across regions and/or states.
  - Create interoperable communications mission-ready mutual aid packages for inter-state and intra-state resource sharing.
  - Create interoperable communications and broadband SOPs which are regularly updated and stored in a centralized repository, enabling sharing across regions and municipalities.
- Technology :
  - Leverage existing voice, video, and data communications networks to enhance coverage and capabilities.
  - Document and coordinate use of best practices for redundancy/resiliency of existing public safety answering points (PSAP's).
  - Promote migration to the statewide Project 25 (P25) system, as appropriate.
  - Establish a roadmap for migration to the Nationwide Public Safety Broadband Network developed by FirstNet.
  - Support State Threat and Hazard Identification and Risk Assessment (THIRA) efforts to complete cyber risk and security assessments for existing systems and make appropriate improvements.
  - Identify and enhance the integration and use of data sharing and common operating systems (e.g., WebEOC) used for emergency and disaster response.
- Training and Exercises :
  - Incorporate a specific communications component (e.g., COML/COMT personnel, strategic technology reserve equipment, and communications objectives) into all training, exercises, and planned events.
  - Enhance end user training on national, state, and regional interoperability systems.
  - Provide additional education programs for Auxiliary Communication (AUXCOMM) personnel (e.g., Amateur Radio Emergency Services [ARES], Radio Amateur Civil Emergency Services [RACES]).
  - Conduct training on SOPs and availability of mutual aid resources.

- Usage :
  - Ensure efficient use of Communications Unit (COMU) and other subject matter experts (SMEs) in the field during real-world incidents, events, and exercises.
  - Establish and maintain a schedule for the systematic testing and use of interoperable systems, strategic technology reserve (STR)/cache equipment, and channels or talk groups.
- Outreach and Information Sharing :
  - Consider existing resources such as WebEOC to provide regular non-emergency updates across the state
  - Develop an outreach plan for the state to engage and encourage local and tribal participation to ensure their public safety needs are adequately represented during the First Responder Network Authority (FirstNet) consultation process.
- Life Cycle Funding :
  - Implement a life cycle funding plan which takes into account all interoperable communications systems and equipment, the interoperability program, and the core elements of establishing and maintaining interoperable and emergency communications in the state.

This SCIP is owned and managed by the Deputy Commissioner, Emergency Services and Public Protection, responsible for the Division of Emergency Management and Homeland Security through the SIEC and the Statewide Interoperability Coordinator (SWIC). The SWIC is responsible for ensuring this plan is implemented and maintained statewide.

---

**TABLE OF CONTENTS**

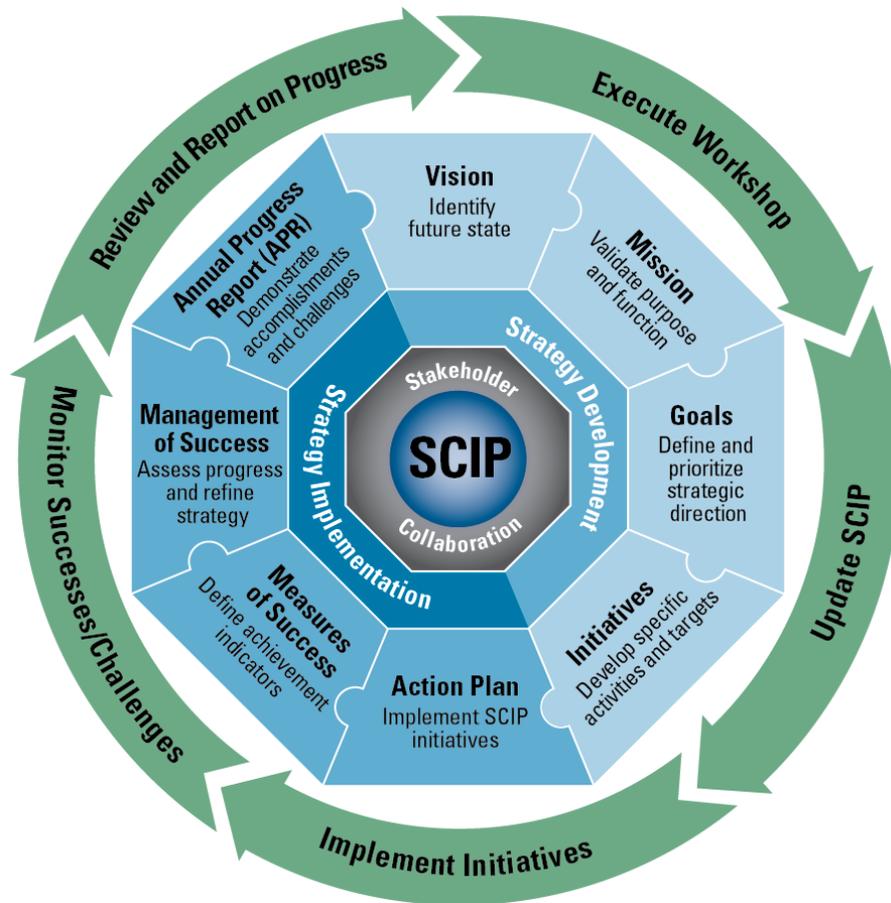
|                                                                      |    |
|----------------------------------------------------------------------|----|
| Executive Summary .....                                              | 1  |
| 1. Introduction.....                                                 | 5  |
| 2. Purpose.....                                                      | 11 |
| 3. State’s Interoperable and Emergency Communications Overview ..... | 11 |
| 4. Vision and Mission .....                                          | 13 |
| 5. Strategic Goals And Initiatives .....                             | 13 |
| 5.1 Governance.....                                                  | 13 |
| 5.2 Standard Operating Procedures (SOPs).....                        | 16 |
| 5.3 Technology.....                                                  | 18 |
| 5.4 Training and Exercises.....                                      | 21 |
| 5.5 Usage.....                                                       | 23 |
| 5.6 Outreach and Information Sharing .....                           | 24 |
| 5.7 Life Cycle Funding.....                                          | 25 |
| 6. Implementation .....                                              | 27 |
| 6.1 Action Plan .....                                                | 27 |
| 6.2 Measures of Success .....                                        | 27 |
| 6.3 Management of Success.....                                       | 33 |
| 6.4 Strategic Plan Review.....                                       | 33 |
| 7. Reference Materials.....                                          | 33 |
| Appendix A: Major Systems .....                                      | 35 |
| Appendix B: List of Acronyms .....                                   | 41 |

## 1. INTRODUCTION

The Connecticut Statewide Communication Interoperability Plan (SCIP) is a stakeholder-driven, multi-jurisdictional, and multi-disciplinary statewide strategic plan to enhance interoperable and emergency communications. The SCIP is a three-to-five year strategic planning tool to help Connecticut prioritize resources, strengthen governance, identify future investments, and address interoperability gaps. This document contains the following planning components:

- Introduction – Provides the context necessary to understand what the SCIP is and how it was developed.
- Purpose – Explains the purpose/function(s) of the SCIP in Connecticut.
- State’s Interoperable and Emergency Communications Overview – Provides an overview of the state’s current and future emergency communications environment and defines ownership of the SCIP.
- Vision and Mission – Articulates the state’s three-to-five year vision and mission for improving emergency communications operability, interoperability, and continuity of communications at all levels of government.
- Strategic Goals and Initiatives – Outlines the strategic goals and initiatives aligned with the three-to-five year vision and mission of the SCIP and pertains to the following critical components: Governance, Standard Operating Procedures (SOPs), Technology, Training and Exercises, Usage, Outreach and Information Sharing, and Life Cycle Funding.
- Implementation – Describes the process to evaluate the success of the SCIP and to conduct SCIP reviews to ensure it is up-to-date and aligned with the changing internal and external environment.
- Reference Materials – Includes resources that provide additional background information on the SCIP or interoperable and emergency communications in Connecticut or directly support the SCIP.

Figure 1 provides additional information about how these components of the SCIP interrelate to develop a comprehensive plan for improving interoperable and emergency communications.



**Figure 1: SCIP Strategic Plan and Implementation Components**

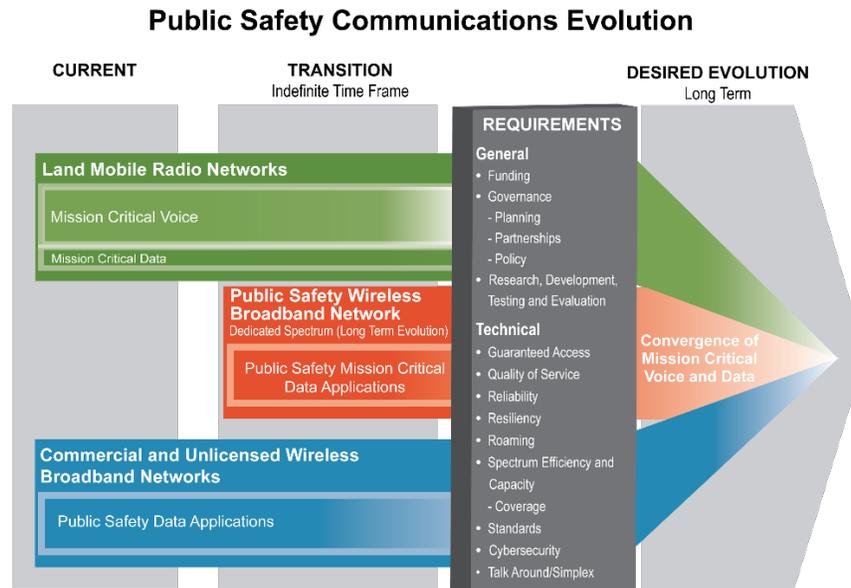
The Connecticut SCIP is based on an understanding of the current and mid-range interoperable and emergency communications environment. Connecticut has taken significant steps towards enhancing interoperable and emergency communications, including:

- **Enhancing interoperable communications between agencies.** Connecticut installed a Project 25 (P25) switch for statewide use; built the Connecticut Public Safety Data Network (PSDN), an ultra-high-speed fiber optic data network for approximately 400 public safety and government facilities for public safety services statewide; and continued to build out and enhance the Connecticut Statewide Radio Network, an 800 megahertz (MHz) system for interoperable communications for state and local users.

- **Enhancing on-scene communications and building communications resiliency in the State.** Connecticut Department of Emergency Services and Public Protection, Division of Emergency Management and Homeland Security (DESPP/DEMHS) distributed six mobile communications vehicles throughout the state to provide voice, video, and data. The state also created a Strategic Technology Reserve (STR), comprised of two mobile towers and an equipment cache, to provide resiliency and surge capacity.
- **Assisting the five DEMHS Planning & Preparedness Regions in their interoperability efforts.** State and federal funding supported communications interoperability efforts in all five regions, including build-out of a region-wide 700 MHz system and procurement of mobile assets and other associated equipment.
- **Providing regular communications training.** Connecticut provided targeted training (e.g., P25 controller training, narrowbanding training); Communications Unit Leader (COML)/Communications Unit Technician (COMT)/Auxiliary Communications (AUXCOMM) training and workshops; developed a statewide credentialing system for COML/COMT certification; and implemented a statewide Telecommunication Emergency Response Taskforce (TERT) training program and framework.
- **Demonstrating interoperable communications capabilities through exercises and real-world incident response** (e.g., tested during the Annual Governors Emergency Planning and Preparedness Initiative [EPPI] Statewide Exercises, Hurricanes Sandy and Irene, train derailments, large events and the Sandy Hook Elementary School Shooting).

However, more work remains to achieve Connecticut's vision. It is also important to note this work is part of a continuous cycle as Connecticut will always need to adapt to evolving technologies, operational tactics, and changes in key individuals. In the next three-to-five years, Connecticut will encounter challenges relating to operability, interoperability, geography, aging equipment/systems, emerging technologies, changing project champions, and sustainable funding.

Wireless voice and data technology is evolving rapidly and efforts are underway to determine how to leverage these new technologies to meet the needs of public safety. For example, the enactment of the Middle Class Tax Relief and Job Creation Act of 2012 (the Act), specifically Title VI, related to Public Safety Communications, authorizes the deployment of the Nationwide Public Safety Broadband Network (NPSBN) by FirstNet. The NPSBN is intended to be a wireless, interoperable nationwide communications network which will allow members of the public safety community to securely and reliably gain access and share information with their counterparts in other locations and agencies. New policies and initiatives such as the NPSBN present additional challenges and considerations for future planning efforts and require an informed strategic vision to properly account for these changes. Figure 2 illustrates a public safety communications evolution by describing the long-term transition toward a desired converged future.



**Figure 2: Public Safety Communications Evolution**

Integrating capabilities such as broadband provide an unparalleled opportunity for the future of interoperable communications in Connecticut. It may result in a secure path for information-sharing initiatives, PSAPs, and Next Generation 911 (NG911) integration. Broadband will not replace existing Land Mobile Radio (LMR) voice systems in the foreseeable future due to implementation factors associated with planning, deployment, technology, and cost. A cautious approach to this investment is needed. Therefore, robust requirements and innovative business practices must be developed for broadband initiatives prior to any implementation.

Connecticut is keeping up-to-date with the planning and build-out of the NPSBN in the near and long term in coordination with the First Responder Network Authority (FirstNet). FirstNet is the independent authority within the National Telecommunications and Information Administration (NTIA) and is responsible for developing the NPSBN, which will be a single, nationwide, interoperable public safety broadband network. The network build-out will require continuing education and commitment at all levels of government and across public safety disciplines to document network requirements and identify existing resources and assets which could potentially be used in the build-out of the network. It will also be necessary to develop and maintain strategic partnerships with a variety of stakeholder agencies and organizations at the national, state, regional, local, and tribal levels and design effective policy and governance structures that address new and emerging interoperable and emergency communications technologies. During this process, investments in LMR will continue to be necessary and in the near term, wireless data systems or commercial broadband will complement LMR.

More information on the role of these two technologies in interoperable and emergency communications is available in the Department of Homeland Security (DHS) Office of Emergency Communications (OEC) Public Safety Communications Evolution brochure and at <http://Firstnet.gov>.<sup>1</sup>

Connecticut has conducted data collection activities as part of the requirements of the State and Local Implementation Grant Program (SLIGP), and continues to conduct outreach to tribal nations to ensure inclusion in FirstNet's State Plan. Currently the State Emergency Management Director is identified as the SWIC and the SPOC for broadband efforts and is supported by a coordinating team. The State has identified the Statewide Interoperability Coordinator (SWIC) as the Single Point of Contact (SPOC) for broadband efforts. The Connecticut Public Safety State Interoperability Executive Committee (CPSSIEC, abbreviated SIEC for the purpose of this document) Broadband Working Group will work to answer data calls and provide information as requested by FirstNet. Additionally The Broadband Working Group Staff will continue with outreach efforts and other necessary tasks in support of the initiative.

Achieving sustainable funding in the current fiscal climate is a priority for Connecticut. As state and federal grant funding diminishes, states need to identify alternative funding sources to continue improving interoperable and emergency communications for voice, video, and data systems. The key funding priorities for Connecticut include sustainment of existing training and systems while planning for enhancement of existing and emerging technologies. More information on a typical emergency communications system life cycle, cost planning, and budgeting is available in OEC's System Life Cycle Planning Guide.<sup>2</sup>

The Interoperability Continuum, developed by SAFECOM and shown in Figure 3, serves as a framework to address all of these challenges and 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.

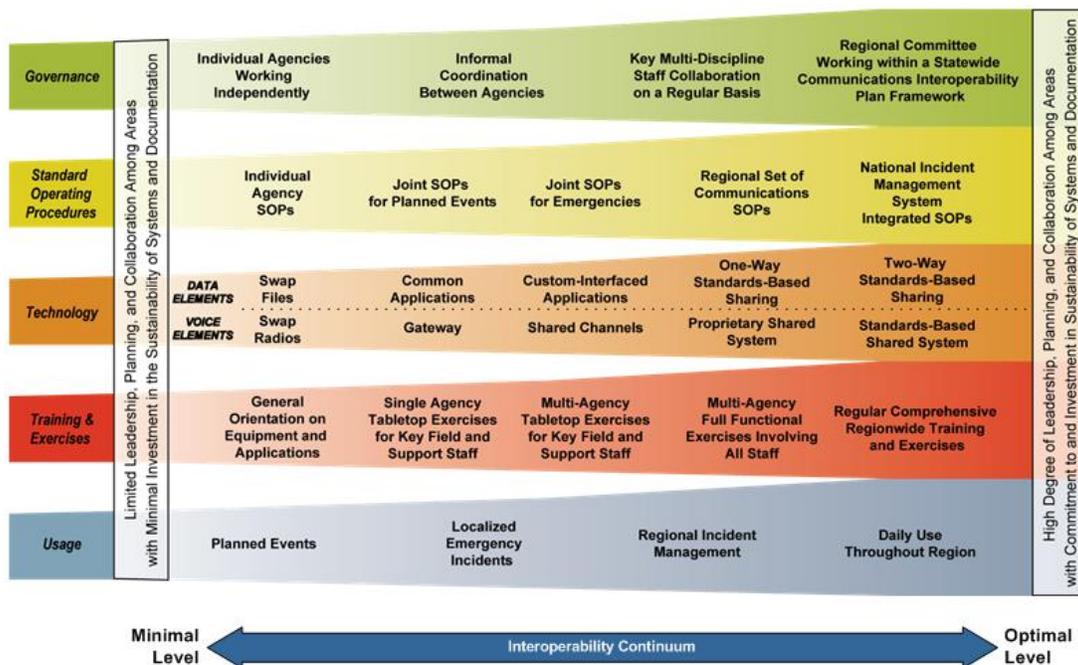
---

<sup>1</sup> OEC's Public Safety Communications Evolution brochure is available here:

[http://publicsafetytools.info/oec\\_guidance/docs/Public\\_Safety\\_Communications\\_Evolution\\_Brochure.pdf](http://publicsafetytools.info/oec_guidance/docs/Public_Safety_Communications_Evolution_Brochure.pdf)

<sup>2</sup> OEC's System Life Cycle Planning Guide is available here:

[http://publicsafetytools.info/oec\\_guidance/docs/OEC\\_System\\_Life\\_Cycle\\_Planning\\_Guide\\_Final.pdf](http://publicsafetytools.info/oec_guidance/docs/OEC_System_Life_Cycle_Planning_Guide_Final.pdf)



**Figure 3: The Interoperability Continuum**

The Continuum identifies five critical success elements which must be addressed to achieve a successful interoperable communications solution:

- **Governance** – Collaborative decision-making process supporting interoperability efforts to improve communication, coordination, and cooperation across disciplines and jurisdictions. Governance is the critical foundation of all of Connecticut's efforts to address communications interoperability.
- **Standard Operating Procedures** – Policies, repetitive practices, and procedures which guide emergency responder interactions and the use of interoperable communications solutions.
- **Technology** – Systems and equipment which enables emergency responders to share voice and data information efficiently, reliably, and securely.
- **Training and Exercises** – Scenario-based practices used to enhance communications interoperability and familiarize the public safety community with equipment and procedures.
- **Usage** – Familiarity with interoperable communications technologies, systems, and operating procedures used by first responders to enhance interoperability.

More information on the Interoperability Continuum is available in OEC's Interoperability Continuum brochure.<sup>3</sup>

<sup>3</sup> OEC's Interoperability Continuum is available here:  
<http://www.safecomprogram.gov/oecguidancedocuments/continuum/Default.aspx>

The following sections will further describe how the SCIP will be used in Connecticut and Connecticut's plans to enhance interoperable and emergency communications.

## 2. PURPOSE

The purpose of the Connecticut SCIP is to:

- Provide the strategic direction and alignment for those responsible for interoperable and emergency communications at the state, regional, local, and tribal levels.
- Explain to leadership and elected officials the vision for interoperable and emergency communications and demonstrate the need for funding.
- Serve as a guide to engage the appropriate stakeholders to prioritize activities and ensure the SIEC is on target to meet the SCIP's goals and initiatives.

The development and execution of the SCIP assists Connecticut with addressing the results of the National Emergency Communications Plan (NECP) Goals and the Federal government with fulfilling the Presidential Policy Directive 8 (PPD-8)<sup>4</sup> National Preparedness Goal for Operational Communications.<sup>5</sup>

In addition to this SCIP, Connecticut will develop an annual SCIP Snapshot shared with OEC and other stakeholders to highlight recent accomplishments and demonstrate progress toward achieving the goals and initiatives identified in the SCIP. More information on the SCIP Snapshot is available in Section 6.4.

## 3. STATE'S INTEROPERABLE AND EMERGENCY COMMUNICATIONS OVERVIEW

Connecticut serves as the primary geographic gateway between New England and the Metropolitan New York areas, and has developed a high level of communications technology to address the distinct challenges it faces.

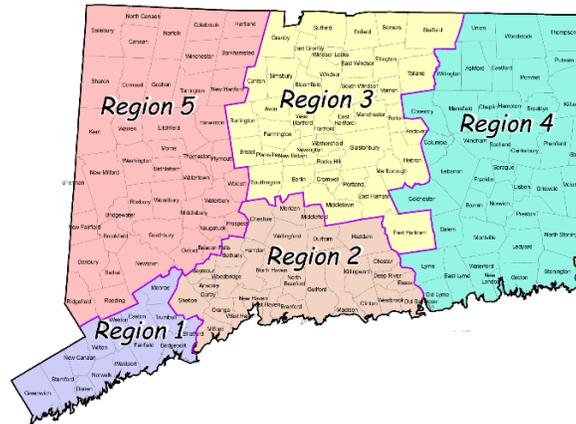
Governance of the interoperable and emergency communications environment in the State includes the five DEMHS Emergency Planning Regions. The basis of these are the 169 municipalities, and two tribal nations, each with various government and non-governmental organization (NGO) response partners. Municipalities are autonomous and coordinate through the Planning Regions.

---

<sup>4</sup> PPD-8 was signed in 2011 and is comprised of six elements: a National Preparedness Goal, the National Preparedness System, National Planning Frameworks and Federal Interagency Operational Plan, an annual National Preparedness Report, and ongoing national efforts to build and sustain preparedness. PPD-8 defines a series of national preparedness elements and emphasizes the need for the whole community to work together to achieve the National Preparedness Goal. <http://www.dhs.gov/presidential-policy-directive-8-national-preparedness>.

<sup>5</sup> National Preparedness Goal – Mitigation and Response Mission Area Capabilities and Preliminary Targets – Operational Communications: Ensure the capacity for timely communications in support of security, situational awareness, and operations by any and all means available, among and between affected communities in the impact area and all response forces.

1. Ensure the capacity to communicate with the emergency response community and the affected populations and establish interoperable voice and data communications between Federal, State, and local first responders.
2. Re-establish sufficient communications infrastructure within the affected areas to support ongoing life-sustaining activities, provide basic human needs, and transition to recovery.



To oversee statewide efforts among the regions, the SIEC was formally established by DEMHS now a division of the DESPP. Under Titles 28 and 29 of the Connecticut General Statutes, DESPP is responsible for providing a coordinated, integrated program for the protection of life and property and for statewide emergency management and homeland security. Under Connecticut General Statute 29-1r, the Commissioner of DESPP delegates emergency management and homeland security authority to the Deputy Commissioner of DESPP responsible for DEMHS. As outlined in Connecticut General Statutes 28-1a(b), DEMHS is responsible for, among other things “coordinating” and as may be necessary consolidating homeland security communications and communications systems of the state government with state and local personnel, agencies and authorities, the general public and the private sector.

The SIEC meets monthly and recently updated its membership to ensure statewide inclusivity and accurate representation. The SIEC’s Technical Committee meets regularly to carry out various communications interoperability efforts. The State is also involved in collaboration and coordination with the Federal Emergency Management Agency (FEMA) Regions I and II, participating in joint training and exercises and working toward inter-State interoperability. However, this can result in discrepancies with interoperability methods used during internal statewide events, as certain parts of the state align more closely with either FEMA Region I or Region II and their respective efforts and systems.

In terms of technology, existing communications systems in Connecticut vary widely from low band (30-50MHz), VHF, UHF to more sophisticated digitally trunked systems. The state has a robust 700- 800 MHz infrastructure with a microwave backbone utilized by many of the regional communications systems and municipalities.

Sustainment of these systems is a major focus in Connecticut, which achieved significant expansion of capabilities among the systems in the past few years. Sustainment of training and exercises is also of high priority to prevent loss of institutional knowledge and to increase usage and familiarity with new and/or upgraded systems and equipment. The lack of county governance structures and the autonomous nature of the municipalities make coordination of sustainment a priority. The state will continue to employ strong regional and State interoperability governance to ensure efficiency of efforts and maximization of resources.

## 4. VISION AND MISSION

The Vision and Mission section describes the Connecticut vision and mission for improving emergency communications operability, interoperability, and continuity of communications statewide.

### **Connecticut Interoperable and Emergency Communications Vision:**

Provide and sustain a common interoperable communications pathway for all involved stakeholders.

### **Connecticut Interoperable and Emergency Communications Mission:**

By 2020, provide and sustain a standards-based telecommunications infrastructure that will allow for secure, timely, efficient, and cost-effective statewide interoperability (meaning operationally-appropriate compatible systems and data platforms, e.g., federal, state, regional, local, tribal nations, private sector, and non-government organizations).

## 5. STRATEGIC GOALS AND INITIATIVES

The Strategic Goals and Initiatives section describes the statewide goals and initiatives for delivering the vision for interoperable and emergency communications. The goals and initiatives are grouped into seven sections, including Governance, SOPs, Technology, Training and Exercises, Usage, Outreach and Information Sharing, and Life Cycle Funding.

### 5.1 Governance

The Governance section of the SCIP outlines the future direction of the Connecticut governance structure for interoperable and emergency communications. The Connecticut SIEC is a subcommittee of the DEMHS Advisory Council. It is formally recognized by Executive Order and meets monthly to coordinate interoperability issues within the state. The SIEC's primary purpose is to provide recommendations to the Deputy Commissioner of DEMHS and to the Advisory Council with regard to sharing real-time voice, video, and data information with authorized first responders and other critical components of the emergency management and public safety community. In 2014, the SIEC updated its membership to ensure statewide inclusivity and accurate representation. It also invites non-voting members of the stakeholder community to participate in meetings. Its Technical Committee meets regularly to carry out various communications interoperability efforts. The SIEC Broadband Working Group will continue to coordinate data gathering, planning, build-out, and implementation efforts for the NPSBN.

Regional emergency management in the State is coordinated through five DEMHS Regional Emergency Planning Teams (REPTs) and five DEMHS Regional offices. The regional offices serve as a structure for multi-agency, multi-jurisdictional, multi-level collaboration within each intra-State region. They are the primary interface with local officials in each of the 169 towns and two Tribal Nations in Connecticut, a strategy which has been successful in coordinating the activities of the municipalities in the state. Connecticut also plans to enhance stakeholder understanding of the Regional Emergency Support Function (RESF) 2 committees and to enhance RESF 2 Committees' scope for coordinating intra-State regional efforts.

Table 1 outlines Connecticut's goals and initiatives related to governance.

**Table 1: Governance Goals and Initiatives**

| <b>Governance Goals and Initiatives</b> |                                                                                                                                     |                                                                                                        |                                                                                                                                                                                                                                                |                                    |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Goal #                                  | Goals                                                                                                                               | Initiatives                                                                                            | Owner                                                                                                                                                                                                                                          | Completion Date                    |
| 1.                                      | Update and enhance inter- and intra-State regional coordination on operable and interoperable communications activities and efforts | 1.1 Update SIEC list serve to ensure RESF 2 committees are included in distribution of meeting minutes | SWIC                                                                                                                                                                                                                                           | November 2016                      |
|                                         |                                                                                                                                     | 1.2 Ensure all regions are represented at SIEC meetings                                                | Regional POCs or designee(s)                                                                                                                                                                                                                   | January 2017, quarterly thereafter |
|                                         |                                                                                                                                     | 1.3 Maintain communications with FEMA Regions I and II and their respective States                     | DEMHS, SWIC, Representatives on FEMA Regional Committees (RECCWG), Representatives on national DHS and FEMA Communications working groups, including IPAWS, FirstNet, FCC Representatives to Regional Frequency Groups in FCC Region 8 and 19. | Ongoing                            |
| 2.                                      |                                                                                                                                     | 2.1 Identify target national committees on which to participate for communications issues.             | SIEC                                                                                                                                                                                                                                           | January 2017                       |

| <b>Governance Goals and Initiatives</b> |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                |       |                                                    |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|
| Goal #                                  | Goals                                                                                                                                                                                                                                                                                                                                             | Initiatives                                                                                    | Owner | Completion Date                                    |
|                                         | Continue presence on national committees (e.g., Public Safety Advisory Committee [PSAC], Northeast States Emergency Consortium [NESEC], Regional Emergency Communications Coordination Working Groups [RECCWGs], National Emergency Management Association [NEMA], National Council of Statewide Interoperability Coordinators [NCSWIC], SAFECOM) | 2.2 Identify personnel to participate on national committees for communications issues.        | SIEC  | January 2017, annual review of attendance          |
|                                         |                                                                                                                                                                                                                                                                                                                                                   | 2.3 Communicate information from national committees to the regions for communications issues. | SIEC  | January 2017, annual review of information sharing |
| 3.                                      | Ensure required expertise remains on the SIEC and as technical experts in the field (i.e., the sustainment of human assets)                                                                                                                                                                                                                       | 3.1 Establish a working group to develop recommendations                                       | SIEC  | July 2017                                          |
|                                         |                                                                                                                                                                                                                                                                                                                                                   | 3.2 Establish a mentoring program to identify and develop the next generation of expertise     | SIEC  | July 2017                                          |
|                                         |                                                                                                                                                                                                                                                                                                                                                   | 3.3 Document existing and needed skill sets, defining technical and operational requirements   | SIEC  | July 2017                                          |
|                                         |                                                                                                                                                                                                                                                                                                                                                   | 3.4 Identify a centralized repository to store important documents for succession planning     | SIEC  | July 2017                                          |
| 4.                                      | Capture available assets in a centralized location                                                                                                                                                                                                                                                                                                | 4.1 Define location for assets management and responsible parties                              | SIEC  | January 2017                                       |
|                                         |                                                                                                                                                                                                                                                                                                                                                   | 4.2 Identify the responsible parties for regularly updating information and how often          | SIEC  | January 2017                                       |

## 5.2 Standard Operating Procedures (SOPs)

The SOPs section of the SCIP identifies the framework and processes for developing and managing SOPs statewide. SOP implementation and documentation varies throughout the state. Under the statutory mission to provide a coordinated, integrated program DESPP/DEMHS works to coordinate local, regional and state SOP's. In an effort to support standardization, development, and usage of SOPs statewide. Connecticut recently developed SOP templates for statewide use and held a workshop for stakeholders to develop SOPs.

However, challenges in establishing consistent documentation and usage of SOPs statewide remain due to municipal autonomy. The State plans to develop mutual aid agreements and mission-ready mutual aid packages to share resources across municipal and regional boundaries. Stakeholders have also identified the need for a common repository of SOPs to serve as a knowledge base and sharing platform. Currently the SOPs are located on the CT-DEMHS website. This repository will serve as the basis for conducting regular reviews of statewide SOPs and performing gap analyses to determine SOP updates and new SOP development, as needed.

Table 2 outlines Connecticut's goals and initiatives for SOPs.

**Table 2: Standard Operating Procedures Goals and Initiatives**

| Standard Operating Procedures Goals and Initiatives |                                                                                                                                                              |                                                                                                                                                                       |                                                            |                 |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------|
| Goal #                                              | Goals                                                                                                                                                        | Initiatives                                                                                                                                                           | Owner                                                      | Completion Date |
| 5.                                                  | Build on established SOPs to include non-traditional public safety response partners (e.g., utilities, NGOs) in initial notification of an incident or event | 5.1 Develop State and regional lists of non-traditional public safety response partners or secondary end users to include in pre-notification (e.g., utilities, NGOs) | SIEC, Regional ESF 2 leads                                 | September 2017  |
|                                                     |                                                                                                                                                              | 5.2 Develop relationships with identified non-traditional public safety response partners (e.g., utilities, NGOs)                                                     | SIEC, Regional ESF 2 leads                                 | December 2016   |
|                                                     |                                                                                                                                                              | 5.3 Identify pre-notification methods (e.g. Notification systems )                                                                                                    | SIEC, Regional ESF 2 leads                                 | June 2017       |
|                                                     |                                                                                                                                                              | 5.4 Update established SOPs for pre-notification                                                                                                                      | Regional ESF 2 leads and non-traditional response partners | October 2017    |

| Standard Operating Procedures Goals and Initiatives |                                                                                                                                                                                                                                                                   |                                                                                                                                                     |                    |                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------|
| Goal #                                              | Goals                                                                                                                                                                                                                                                             | Initiatives                                                                                                                                         | Owner              | Completion Date                             |
| 6.                                                  | Document agreements (e.g., Emergency Management Assistance Compact [EMAC], memoranda of understanding [MOUs], memoranda of agreement [MOAs]) to utilize COML/COMT and Telecommunicator Emergency Response Taskforce (TERT) resources across regions and/or states | 6.1 Collaborate with mutual aid partners to develop agreements for sharing communications resources                                                 | DEMHS, DESPP       | Ongoing                                     |
|                                                     |                                                                                                                                                                                                                                                                   | 6.2 Leverage existing mutual aid programs through DEMHS and DESPP                                                                                   | DEMHS, DESPP       | June 2017                                   |
|                                                     |                                                                                                                                                                                                                                                                   | 6.3 Identify existing communications resources within the State via regional Tactical Interoperable Communications Plans (TICPs)                    | SIEC, REPTs        | December 2016                               |
|                                                     |                                                                                                                                                                                                                                                                   | 6.4 Conduct Incident Command System (ICS) resource typing and costs for deployable communications resources                                         | DEMHS, CTS         | October 2017                                |
| 7.                                                  | Create interoperable communications mission-ready mutual aid packages for inter-state and intra-state resource sharing                                                                                                                                            | 7.1 Develop a statewide list of communications resources (see Initiatives 5.3 and 5.4)                                                              | DEMHS, CTS, REPT's | June 2017                                   |
|                                                     |                                                                                                                                                                                                                                                                   | 7.2 Review and update list(s) of available deployable communications resources                                                                      | SIEC, REPTs        | October 2016, annually each year thereafter |
| 8.                                                  | Create interoperable communications and broadband SOPs that are regularly updated and stored in a centralized repository that enables sharing across regions and municipalities                                                                                   | 8.1 Identify existing interoperable communications and broadband SOPs and conduct gap analysis                                                      | SIEC, REPTs        | December 2016, ongoing reviews              |
|                                                     |                                                                                                                                                                                                                                                                   | 8.2 Develop new SOPs based on identified gaps and in accordance with grant guidance                                                                 | SIEC, REPTs        | June 2017, ongoing                          |
|                                                     |                                                                                                                                                                                                                                                                   | 8.3 Review SOPs for State and National Response Frameworks (SRF/NRF) and National Incident Management System (NIMS) compliance and update as needed | SIEC, REPTs        | July 2017                                   |

| Standard Operating Procedures Goals and Initiatives |       |                                                                                                                                                                                                   |             |                 |
|-----------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| Goal #                                              | Goals | Initiatives                                                                                                                                                                                       | Owner       | Completion Date |
|                                                     |       | 8.4 Create a repository/knowledge base for sharing SOPs, lessons learned, and other materials to retain institutional knowledge across regions and municipalities (SIEC meeting minutes and AARs) | SIEC, REPTs | January 2017    |

### 5.3 Technology

The Technology section of the SCIP outlines Connecticut's plan to maintain and upgrade existing technology; the roadmap to identify, develop, and implement new and emerging technology solutions; and the approach to survey and disseminate information on current and future technology solutions to ensure user needs are met.

Connecticut has developed robust communications infrastructure by building ample tower sites and fiber and microwave backhaul capabilities to connect systems. Primary public safety communications systems in Connecticut include:

- **State Trunked Radio System**, a statewide 7/800 MHz trunked radio system providing 98% mobile radio coverage throughout the state. The system is transitioning to a P25 Standards Based System.
- **CS-PERN**, an 800 MHz system for interoperable communications for local and State law enforcement users.
- **PSDN**, an ultra-high-speed fiber optic data network for approximately 400 public safety government applications and services statewide.
- **8CALL90/8-TAC Interoperability Mutual Aid Radio System**, a statewide 800 MHz conventional radio system designated for command and control radio communications at multi-agency and/or multi-jurisdictional incidents.
- **State Tactical On-Scene Channel System (STOCS)**, a system of VHF, UHF, and 800 MHz frequencies combined into five interoperability channel groups used for on-scene patching.
- **Statewide Coordinated Medical Emergency Dispatch (CMED)**, a 40-year-old UHF system utilized by all Emergency Medical Services (EMS) personnel and hospitals to relay patient critical care information.
- **Connecticut State Fire Chiefs System and Connecticut State County Fire Systems**, a low band system, available for regional fire communications centers and local fire services, and the State Fire Coordinator system. The conventional channel systems were installed in the 1950s.

- **Statewide Police Hotline**, a low band, point to point radio system providing rapid exchange of information between local and state police agencies
- **MEDNET/HEAR**, a VHF, point to point radio system providing radio exchange of information between regional CMEDs and the State's general hospitals.
- **Regional Law Enforcement Radio Systems**, (SCAN, WARN, FAPERN, RAFS) VHF and UHF regional radios systems used for tactical coordination of law enforcement activities.
- **Amateur Digital Radio System** (DRS), an amateur radio network supported by the State tower system to provide redundant emergency management communications and supplement day to day public safety radio systems.

Since Connecticut's public safety communications landscape is robust, its challenges lie in sustaining systems and coordinating upgrades among neighboring cities in the state's autonomous environment to ensure continuity of interoperability.

In the next three-to-five years, the state will focus on leveraging existing networks to enhance operable and interoperable communications; leveraging best practices to enhance PSAP resiliency; migrating systems, as appropriate, to P25 technology; and expanding the use of data sharing tools to achieve a common operating picture among first responders before, during, and after an incident. These efforts will continue to be coordinated by the SIEC and the five Intra-state DEMHS regions to ensure municipalities plan and implement communications technology improvements collaboratively.

Table 3 outlines Connecticut's goals and initiatives for technology.

**Table 3: Technology Goals and Initiatives**

| Technology Goals and Initiatives |                                                                                                       |                                                                                                     |                     |                                        |
|----------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------|----------------------------------------|
| Goal #                           | Goals                                                                                                 | Initiatives                                                                                         | Owner               | Completion Date                        |
| 9.                               | Leverage existing voice, video, and data communications networks to enhance coverage and capabilities | 9.1 Promote the use of the Conventional Channel Gateway (CCGW)                                      | SIEC/ESF 2 Chairs   | July 2017                              |
|                                  |                                                                                                       | 9.2 Identify existing communications networks and limitations via regional TICPs                    | SIEC, Regional ESFs | December 2016                          |
|                                  |                                                                                                       | 9.3 Update regional TICPs with communications networks information as needed and submit to the SIEC | SIEC, Regional ESFs | July 2016, bi-annually thereafter      |
|                                  |                                                                                                       | 9.4 Conduct review of updated regional TICPs                                                        | SIEC                | September 2016, bi-annually thereafter |

| Technology Goals and Initiatives |                                                                                           |                                                                                                                        |                                                                                                            |                  |
|----------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------|
| Goal #                           | Goals                                                                                     | Initiatives                                                                                                            | Owner                                                                                                      | Completion Date  |
| 10.                              | Document and coordinate use of best practices for redundancy/resiliency of existing PSAPs | 10.1 Develop an emergency communications architecture best practices document for PSAPs, leveraging national standards | SIEC Technical Committee, 911 Commission,<br><br>Division of Statewide Emergency Telecommunications (DSET) | October 2017     |
| 11.                              | Promote migration to the statewide P25 system, as appropriate                             | 11.1 Enhance understanding of statewide P25 capabilities                                                               | SIEC Technical Committee                                                                                   | June 2017        |
|                                  |                                                                                           | 11.2 Conduct a user needs assessment for statewide P25 technology                                                      | DESPP/<br>Connecticut Telecommunications System (CTS)                                                      | Based on request |
|                                  |                                                                                           | 11.3 Develop draft guidance for integrating existing resources into the statewide P25 system                           | DESPP/CTS                                                                                                  | September 2016   |
| 12.                              | Establish a roadmap for migration to the NPSBN                                            | 12.1 Develop a plan to conduct a user needs assessment for broadband technology                                        | SIEC Broadband Working Group                                                                               | TBD              |
|                                  |                                                                                           | 12.2 Enhance understanding of mobile broadband capabilities                                                            | SIEC Broadband Working Group                                                                               | TBD              |
|                                  |                                                                                           | 12.3 Review the technology roadmap with key decision makers to identify next steps                                     | SIEC Broadband Working Group                                                                               | TBD              |
|                                  |                                                                                           | 12.4 Develop a plan to conduct an inventory of existing infrastructure that may support broadband technology           | SIEC Broadband Working Group                                                                               | TBD              |
|                                  |                                                                                           | 12.5 Develop a roadmap for integrating data and video communications                                                   | SIEC Broadband Working Group                                                                               | TBD              |

| Technology Goals and Initiatives |                                                                                                                                                                                           |                                                                                       |                                                                                                            |                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------|
| Goal #                           | Goals                                                                                                                                                                                     | Initiatives                                                                           | Owner                                                                                                      | Completion Date |
| 13.                              | Support State Threat and Hazard Identification and Risk Assessment (THIRA) efforts to complete cyber risk and security assessments for existing systems and make appropriate improvements | 13.1 Ensure integration of ESF 2 functions in ongoing THIRA efforts                   | DEMHS                                                                                                      | December 2017   |
| 14.                              | Identify and enhance the integration and use of data sharing and common operating systems (e.g., WebEOC) used for emergency and disaster response                                         | 14.1 Identify existing data systems and data format compatibility among those systems | SIEC (Broadband Working Group), PSDN Governance Committee, DAS/BEST, Office of Policy and Management (OPM) | March 2017      |
|                                  |                                                                                                                                                                                           | 14.2 Standardize data reporting format                                                | SIEC (Broadband Working Group), PSDN Governance Committee, DAS/BEST, OPM                                   | March 2017      |
|                                  |                                                                                                                                                                                           | 14.3 Develop plan to integrate data connection and sharing among existing systems     | SIEC (Broadband Working Group), PSDN Governance Committee, DAS/BEST, OPM                                   | March 2017      |

#### 5.4 Training and Exercises

The Training and Exercises section of the SCIP explains Connecticut's approach to ensure that emergency responders are familiar with interoperable and emergency communications equipment and procedures and are better prepared for responding to real-world events. The DESPP/ DEMHS maintains a statewide calendar of training and exercises on its website. The state has provided COML/COMT/AUXCOMM training classes. Development of a formal COML/COMT credentialing system is ongoing. The regions conduct training sessions and hold "Tech Days" - workshops designed for COML/COMTs along with a communications exercise to provide the opportunity to have task books signed for formal credentialing. The state also provides targeted training on relevant communications topics, such as narrowbanding and P25 controller training. In addition, DEMHS Region 5 created a series of DVDs to train local agency personnel.

Despite the various training courses already occurring in the state, maintenance of institutional knowledge and utilization of available resources is a concern for Connecticut. The state plans to incorporate communications components into existing training and exercises and continue to provide regular training opportunities for first responders and other partners across the state. These opportunities will ensure familiarity with operable and interoperable communications systems and equipment as well as plans, policies, and procedures. Specific end user training on national, state, and regional interoperability systems and SOPs and incorporation of AUXCOMM resources will further strengthen interoperable and emergency communications statewide.

Table 4 outlines Connecticut’s goals and initiatives for training and exercises.

**Table 4: Training and Exercises Goals and Initiatives**

| <b>Training and Exercises Goals and Initiatives</b> |                                                                                                                                                                        |                                                                                                                                                                                                                         |                                       |                 |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|
| Goal #                                              | Goals                                                                                                                                                                  | Initiatives                                                                                                                                                                                                             | Owner                                 | Completion Date |
| 15.                                                 | Incorporate a specific communications component (e.g., COML/COMT personnel, STR equipment, communications objectives) into all training, exercises, and planned events | 15.1 Conduct outreach to various organizations in the State to facilitate coordination with Communications Unit (COMU) personnel and align with ESF 2 job description                                                   | DEMHS, SIEC, Regional ESF 2 Personnel | January 2018    |
|                                                     |                                                                                                                                                                        | 15.2 Align communications training with Federal initiatives                                                                                                                                                             | DEMHS, SIEC                           | January 2018    |
|                                                     |                                                                                                                                                                        | 15.3 Identify training, exercise and planned event opportunities, including those on the statewide multi-year training and exercise calendar, to leverage existing opportunities to integrate communications components | DEMHS, SIEC                           | July 2018       |
| 16.                                                 | Enhance end user training on national, State, and regional interoperability systems                                                                                    | 16.1 Update the NIMS implementation plan to ensure ICS training (e.g. IS-802) for multi-disciplinary personnel to ensure understanding of available communications resources (COML/COMT/COMU/AUXCOMM)                   | DEMHS                                 | October 2017    |
|                                                     |                                                                                                                                                                        | 16.2 Update existing training programs to include training on communications fundamentals and provide to agencies involved in multi-disciplinary response—                                                              | SIEC, Professional Associations       | June 2017       |

| Training and Exercises Goals and Initiatives |                                                                                                                                                             |                                                                                                                                                                                     |                                           |                 |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|
| Goal #                                       | Goals                                                                                                                                                       | Initiatives                                                                                                                                                                         | Owner                                     | Completion Date |
|                                              |                                                                                                                                                             | managers and field personnel—to ensure a clear understanding of communications assets (e.g. fiber network availability)                                                             |                                           |                 |
|                                              |                                                                                                                                                             | 16.3 Identify professional associations and/or other training associations and promote incorporation of updated training on communications fundamentals                             | SIEC                                      | June 2017       |
| 17.                                          | Provide additional education programs for AUXCOMM personnel (e.g., Amateur Radio Emergency Services [ARES], Radio Amateur Civil Emergency Services [RACES]) | 17.1 Identify AUXCOMM personnel, resources, capabilities, and gaps                                                                                                                  | Statewide ARES Representative to the SIEC | September 2016  |
|                                              |                                                                                                                                                             | 17.2 Develop a training program to address identified gaps                                                                                                                          | Statewide ARES Representative to the SIEC | September 2016  |
| 18.                                          | Conduct training on SOPs and availability of mutual aid resources                                                                                           | 18.1 Upon completion of SOPs (see Goals 5-7), develop and schedule a training program for mutual aid (leverage TICPs, Connecticut Interoperability Field Operations Guide [CTIFOG]) | SIEC                                      | October 2017    |

## 5.5 Usage

The Usage section of the SCIP outlines efforts to ensure responders adopt and familiarize themselves with interoperable and emergency communications technologies, systems, and operating procedures in the state. Regular usage ensures the maintenance and establishment of interoperability in case of an incident. Connecticut responded to several real-world events in the past few years, including Superstorm Sandy, the Sandy Hook Elementary School Shooting, and several severe winter storms. Though devastating, these incidents provided opportunities for Connecticut responders and resources to be used regularly. To ensure continued efficient and effective usage during future real-world events, Connecticut plans to enhance the use of COMUs and other Subject Matter Experts (SMEs) during training and incident response.

The state also plans to maintain a schedule for periodic testing of cache equipment and other interoperability tools (e.g., talkgroups) to ensure familiarity during future response to incidents.

Table 5 outlines Connecticut's goals and initiatives for usage.

**Table 5: Usage Goals and Initiatives**

| <b>Usage Goals and Initiatives</b> |                                                                                                                                                 |                                                                                                        |                                               |                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Goal #                             | Goals                                                                                                                                           | Initiatives                                                                                            | Owner                                         | Completion Date                             |
| 19.                                | Ensure efficient use of COMU and other SMEs in the field during real-world incidents, events, and exercises                                     | 19.1 Based on RESF 2 job description, identify SMEs and establish regional lists of COMU resources     | REPTs, DEMHS Regional Coordinators            | June 2017                                   |
|                                    |                                                                                                                                                 | 19.2 Market state and regional assets                                                                  | REPTs, SIEC                                   | Ongoing                                     |
|                                    |                                                                                                                                                 | 19.3 Promote awareness of SMEs via COMU training program (see Initiative 16.1)                         | REPTs, COMUs, Professional Associations, SIEC | October 2017, annually each July thereafter |
|                                    |                                                                                                                                                 | 19.4 Review deployment procedures for COMU and other SME personnel to ensure maximization of resources | SIEC – Regional ESF 2s                        | September 2017                              |
| 20.                                | Establish and maintain a schedule for the systematic testing and use of interoperable systems, STR/cache equipment, and channels or talk groups | 20.1 Identify resources that require testing and frequency of testing (Ref. TICPs)                     | DEMHS, CTS, DSET, Regional RESF 2's           | December 2016                               |
|                                    |                                                                                                                                                 | 20.2 Develop and publish a testing schedule and align with existing testing, as applicable             | DEMHS, CTS, DSET, Regional RESF 2's           | January 2017                                |

## 5.6 Outreach and Information Sharing

The Outreach and Information Sharing section of the SCIP outlines Connecticut's approach for building a coalition of individuals and emergency response organizations statewide to support the SCIP vision and for promoting common emergency communications initiatives. Each of the DEMHS Planning and Preparedness Regions has a RESF 2 Chairperson and a Regional Representative to the SEIC, through which members of the public safety community and others provide feedback concerning communications interoperability efforts.

Connecticut is formalizing its outreach and information sharing strategy based on its State Response Framework (SRF). The SRF provides the framework for emergency operations both before and during any incident which requires the activation of local or state EOC's as well as day to day request for services between local municipalities the state and federal government.

These efforts will include the development of daily communications status updates, will include non-traditional response partners (e.g. utilities and NGOs), better engage tribal and local representatives, and enhance the DESPP/DEMHS website as a resource for statewide interoperable and emergency communications information. The state also plans to enhance understanding about its interoperable and emergency communications governance structure, particularly the RESF 2 committees.

Table 6 outlines Connecticut's goals and initiatives for outreach and information sharing.

**Table 6: Outreach and Information Sharing Goals and Initiatives**

| Outreach and Information Sharing Goals and Initiatives |                                                                                                                                                                                                       |                                                                                                                                                        |                              |                 |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|
| Goal #                                                 | Goals                                                                                                                                                                                                 | Initiatives                                                                                                                                            | Owner                        | Completion Date |
| 21.                                                    | Consider existing resources such as WebEOC to provide regular non-emergency updates across the state                                                                                                  | 21.1 Leverage and expand upon existing list serves to develop a comprehensive contact list and applicable information for daily updates                | DEMHS, CTS, CFA, POST, DSET  | June 2017       |
|                                                        |                                                                                                                                                                                                       | 21.2 Establish a DESPP/DEMHS "watch desk" to provide "real time" updates to stakeholders                                                               | DESPP/DEMHS                  | October 2018    |
| 22.                                                    | Develop an outreach plan for the State to engage and encourage local and tribal participation to ensure their public safety needs are adequately represented during the FirstNet consultation process | 22.1 Identify non-traditional public safety stakeholders to include in the consultation process with FirstNet by leveraging existing stakeholder lists | SIEC Broadband Working Group | December 2016   |
|                                                        |                                                                                                                                                                                                       | 22.2 Conduct stakeholder forums to gather feedback regarding user needs for broadband                                                                  | SIEC Broadband Working Group | December 2017   |

## 5.7 Life Cycle Funding

The Life Cycle Funding section of the SCIP outlines Connecticut's plan to fund existing and future interoperable and emergency communications priorities. The state's efforts to build sufficient interoperability into its systems have been largely successful, particularly in serving Connecticut's geographic location connecting metropolitan New York City and New England.

Funding for the next three-to-five years will focus on sustainment of these systems and efforts, including necessary training, maintenance, and upgrades. Funding will also focus on training to ensure institutional knowledge is passed on to new generations of first responders and to members of the community who support public safety communications-related efforts.

Table 7 outlines Connecticut's goals and initiatives for life cycle funding.

**Table 7: Life Cycle Funding Goals and Initiatives**

| <b>Life Cycle Funding Goals and Initiatives</b> |                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                              |              |                                            |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------|
| <b>Goal #</b>                                   | <b>Goals</b>                                                                                                                                                                                                                                                    | <b>Initiatives</b>                                                                                                                                                                                                                           | <b>Owner</b> | <b>Completion Date</b>                     |
| 23.                                             | Implement a life cycle funding plan that takes into account all interoperable communications systems and equipment, the interoperability program, and the core elements of establishing and maintaining interoperable and emergency communications in the State | 23.1 Identify the life cycle and funding requirements of major systems and equipment to demonstrate long-term budget requirements to fiscal decision makers                                                                                  | SWIC         | December 2017                              |
|                                                 |                                                                                                                                                                                                                                                                 | 23.2 Establish a Life Cycle Funding Committee of the SIEC to explore long-term funding options (e.g. donations to public safety organizations, repurposing of decommissioned private sector equipment)                                       | SIEC         | January 2017                               |
|                                                 |                                                                                                                                                                                                                                                                 | 23.3 Present the business case for sustaining interoperable and emergency communications systems to municipal, State, and Federal legislators via the SCIP and its high level of stakeholder support, as well as other applicable mechanisms | SIEC, REPTs  | Annually in conjunction with budget cycles |
|                                                 |                                                                                                                                                                                                                                                                 | 23.4 Leverage stakeholder groups (e.g. professional associations) to present the business case for sustaining interoperable and emergency communications systems to legislators                                                              | SIEC         | Annually in conjunction with budget cycles |

## 6. IMPLEMENTATION

### 6.1 Action Plan

The Action Plan section of the SCIP describes the process Connecticut will use to determine a plan to execute the initiatives in the SCIP.

The SIEC and the SWIC oversee the action planning process, which occurs each year during the SCIP strategic plan review.

During this time, the SIEC discusses necessary updates to the SCIP based on ongoing monitoring and modifying of steps necessary to implement the state's strategic plan for interoperable and emergency communications. The SIEC informs its action planning process with information from status updates during the governing body's monthly meetings to determine the path forward for completing SCIP goals and initiatives.

### 6.2 Measures of Success

The Measures of Success section of the SCIP defines the measures Connecticut will use to monitor progress and indicate accomplishments toward achieving the vision for interoperable and emergency communications. Measures of success are used to meaningfully assess the outcomes and impacts of program functions and processes in meeting strategic goals. Table 8 outlines these measures for Connecticut. More information on how these measures are managed is included in Section 6.3.

**Table 8: SCIP Measures of Success**

| Measures of Success |                                                                                                                                     |                                                                                       |                                                                                                                                                                                                           |                         |                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|
| Goal #              | Strategic Goal(s) Supported                                                                                                         | Initial State                                                                         | Target                                                                                                                                                                                                    | Measure Completion Date | Owner or Source           |
| 1.                  | Update and enhance inter- and intra-State regional coordination on operable and interoperable communications activities and efforts | Inconsistent participation at intra-State regional meetings and monthly SIEC meetings | 100% participation by all five DEMHS Planning & Preparedness Regions and ESF 2 committees at monthly SIEC meetings. Updated membership/distribution lists for intra-State regions and inter-State regions | December 2016           | Regional POCs to the SIEC |

| Measures of Success |                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                                                                     |                         |                             |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------|
| Goal #              | Strategic Goal(s) Supported                                                                                                                      | Initial State                                                                                                                                                                                | Target                                                                                                                                                              | Measure Completion Date | Owner or Source             |
| 2.                  | Continue presence on national committees (e.g., PSAC, NESEC, RECCWG, NEMA, NCSWIC, SAFECOM, FPIC, NPSTC, P-25 Steering Committee)                | Connecticut has presence on several national committees including, but not limited to, PSAC, NESEC, RECCWG, NEMA, NCSWIC, SAFECOM                                                            | Connecticut State presence on 100% of targeted national committees identified and twice annual updates, at a minimum, to the SIEC on national committee information | January 2017            | SIEC                        |
| 3.                  | Ensure required expertise remains on the SIEC and as technical experts in the field (i.e., the sustainment of human assets)                      | No succession planning is in place                                                                                                                                                           | Recruit new members to assist with various SIEC functions and work groups, consider alternate members                                                               | December 2016           | SIEC                        |
| 4.                  | Assets inventory in a centralized location                                                                                                       | The information is available locally and to some extent within each region.                                                                                                                  | Incorporate information from the Regional TIC plans and the inventory of available assets in a centralized location available to appropriate communications staff.  | February 2017           | SIEC                        |
| 5.                  | Build on established SOPs to include non-traditional public safety response partners (e.g., utilities, NGOs) in initial notification of an event | Traditional first responders have established pre-notification and notification SOPs for an unfolding incident, but do not typically include non-traditional public safety response partners | Comprehensive contact list of traditional and non-traditional response partners for pre-notification of an incident is used in 100% of all real-world incidents     | June 2017               | SIEC, Regional RESF 2 leads |

| Measures of Success |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                            |                         |                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|
| Goal #              | Strategic Goal(s) Supported                                                                                                                                                     | Initial State                                                                                                                                                                                | Target                                                                                                                                                                                     | Measure Completion Date | Owner or Source |
| 6.                  | Document agreements (e.g., EMAC, MOUs, MOAs) to utilize COML/COMT and TERT resources across regions and/or states                                                               | Development of mutual aid agreements is currently in progress for EMAC, but further mutual aid agreements could be made between municipalities, regions, and other States                    | Formalized mutual aid agreements (and/or agreement templates to expedite ad-hoc mutual aid agreements) are used in 60% of real-world incidents in which additional resources are necessary | March 2017              | DEMHS           |
| 7.                  | Create interoperable communications mission-ready mutual aid packages for inter-state and intra-state resource sharing                                                          | Documentation of communications resources varies across Connecticut, and mission-ready mutual aid packages do not exist for all municipalities, regions, and with other States               | Annual update of a list of a secure, statewide, ICS-typed communications resources                                                                                                         | October 2017            | DEMHS           |
| 8.                  | Create interoperable communications and broadband SOPs that are regularly updated and stored in a centralized repository that enables sharing across regions and municipalities | Various SOPs exist for interoperable communications, but need to be updated generally and to include SOPs for broadband. There is currently one single statewide repository for sharing SOPs | Interoperable communications SOPs are updated every two years, at minimum, and uploaded to a common repository                                                                             | June 2018               | SIEC, REPTs     |
| 9.                  | Leverage existing voice, video, and data communications networks to enhance coverage and capabilities                                                                           | Major metropolitan areas and others are linked into the State's "system of systems" for interoperability, but further coverage, capabilities, and training is needed                         | 90% of the State has access to statewide "system of systems" for interoperable communication                                                                                               | Ongoing                 | SIEC            |

| Measures of Success |                                                                                                                                                   |                                                                                                                              |                                                                                                    |                               |                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|
| Goal #              | Strategic Goal(s) Supported                                                                                                                       | Initial State                                                                                                                | Target                                                                                             | Measure Completion Date       | Owner or Source                   |
| 10.                 | Document and coordinate use of best practices for redundancy/resilience of existing PSAPs                                                         | No single set of best practices has been made available to PSAPs statewide                                                   | Emergency communications architecture best practices document for PSAPs is posted to DEMHS website | January 2017                  | SIEC Technical Committee/<br>DSET |
| 11.                 | Promote migration to the statewide P25 system, as appropriate                                                                                     | Limited understanding of the statewide P25 system has resulted in limited migration                                          | Migrate 50% of identified systems that want to join the statewide P25 system                       | October 2017                  | SIEC Technical Committee          |
| 12.                 | Establish a roadmap for migration to the NPSBN                                                                                                    | Received initial SLIGP funding for planning for the NPSBN                                                                    | By 2022, implementation and testing of the NPSBN in Connecticut                                    | October 2022                  | SIEC Broadband Working Group      |
| 13.                 | Support State THIRA efforts to complete cyber risk and security assessments for existing systems and make appropriate improvements                | Ensure integration of ESF 2 functions in ongoing THIRA efforts                                                               | 100% completion of THIRA, to include ESF 2 functions                                               | Coincides with THIRA deadline | DEMHS                             |
| 14.                 | Identify and enhance the integration and use of data sharing and common operating systems (e.g., WebEOC) used for emergency and disaster response | Data sharing and common operating systems are used to varying degrees by various agencies and response partners in the State | Implementation of updated version WebEOC and its components in real world incidents                | August 2016                   | SIEC                              |
| 15.                 | Incorporate a specific communications component (e.g., COML/COMT personnel, strategic technology reserve equipment, communications                | Communications is specifically included in approximately 50% of all training and exercises                                   | 100% of all training and exercises in Connecticut include a specific communications component      | November 2016                 | DEMHS                             |

| Measures of Success |                                                                                                                         |                                                                                                                                                                            |                                                                                                                                    |                         |                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------|
| Goal #              | Strategic Goal(s) Supported                                                                                             | Initial State                                                                                                                                                              | Target                                                                                                                             | Measure Completion Date | Owner or Source                           |
|                     | objectives) into all training, exercises, and planned events                                                            |                                                                                                                                                                            |                                                                                                                                    |                         |                                           |
| 16.                 | Enhance end user training on national, State, and regional interoperability systems                                     | Few incident commanders fully understand all interoperable and emergency resources                                                                                         | Engage 50% of command level responders in interoperable communications state/region specific training                              | January 2018            | SIEC Training Work group DEMHS            |
| 17.                 | Provide additional education programs for AUXCOMM personnel (e.g., ARES, RACES)                                         | Stakeholders do not understand the full scope or how to best utilize AUXCOMM resources                                                                                     | AUXCOMM personnel are incorporated into 50% of training and exercises and real-world events, as needed                             | October 2017            | Statewide ARES Representative to the SIEC |
| 18.                 | Conduct training on SOPs and availability of mutual aid resources                                                       | Various SOPs exist for interoperable communications, but require updates. New SOPs for broadband are also needed. There is no single statewide repository for sharing SOPs | Interoperable communications SOPs are updated every two years, at minimum, and uploaded to a common repository                     | October 2017            | SIEC                                      |
| 19.                 | Ensure efficient use of COMU and other SMEs in the field during real-world incidents, events, and exercises             | Communications experts are underutilized in real-world incident response                                                                                                   | 90% of real-world incidents will include a staffed, formally certified COML/COMT or other SME position                             | July 2017               | SIEC                                      |
| 20.                 | Establish and maintain a schedule for the systematic testing and use of interoperable systems, STR/cache equipment, and | STR and other cache equipment is tested to varying degrees and frequencies                                                                                                 | STR and other cache equipment is successfully deployed without major issues in 70% real-world deployments, as reviewed in incident | January 2018            | DESPP, RESF 2s                            |

| <b>Measures of Success</b> |                                                                                                                                                                                                                                                  |                                                                                               |                                                                                                                                                       |                         |                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|
| Goal #                     | Strategic Goal(s) Supported                                                                                                                                                                                                                      | Initial State                                                                                 | Target                                                                                                                                                | Measure Completion Date | Owner or Source              |
|                            | channels or talk groups                                                                                                                                                                                                                          |                                                                                               | After Action Reports (AARs)                                                                                                                           |                         |                              |
| 21.                        | Consider existing resources such as WebEOC to provide regular non-emergency updates across the state                                                                                                                                             | Communications resources status updates are sent infrequently to traditional first responders | Consistent regular dissemination of a statewide status update for communications to traditional and non-traditional response partners, as appropriate | July 2017               | DEMHS                        |
| 22.                        | Develop an outreach plan for the State to engage and encourage local and tribal participation to ensure their public safety needs are adequately represented during the FirstNet consultation process                                            | Received initial SLIGP funding for planning for the NPSBN                                     | Initial consultation completed in 2015. State plan consultation to continue.                                                                          | July 2017               | SIEC Broadband Working Group |
| 23.                        | Implement a life cycle funding plan that takes into account all interoperable systems and equipment, the interoperability program, and the core elements of establishing and maintaining interoperable and emergency communications in the State | Decreased funding for emergency communications has altered previous budgets                   | Identify a long-term funding plan for all major systems in the State                                                                                  | July 2017               | SWIC/DESPP                   |

### 6.3 Management of Success

The Management of Success section describes the iterative, repeatable method Connecticut will follow to add, update and refine the measures of success. At each monthly meeting, the SIEC reserves time to provide status updates on SCIP goals and initiatives. The SIEC will continue this process and include measures of success to determine if the intended impacts of the strategic goals are achieved. Measures of success owners will present the measures at SIEC meetings, as appropriate; if unavailable to attend, owners will communicate updates to the SWIC to share with the SIEC. Status update information will be reviewed by the SIEC to determine if any further action is necessary, either to enhance the impacts or to sustain their successes.

### 6.4 Strategic Plan Review

The Strategic Plan Review section outlines the process Connecticut will use to conduct reviews of the SCIP to ensure it is up to date and aligned with the changing internal and external interoperable and emergency communications environment as well as to track and report progress against the defined initiatives and measures of success.

The SIEC reviews the status SCIP goals and initiatives monthly and may make ad-hoc, minor updates to the SCIP. At least every five years, the SCIP will be reviewed and approved by the SIEC. Annually, the SWIC will compile statewide interoperable and emergency communications updates to develop the SCIP Snapshot, which will be used as a tool to demonstrate challenges and accomplishments to state and federal decision makers as well as other relevant stakeholders.

## 7. REFERENCE MATERIALS

The Reference Materials section outlines resources that contribute additional background information on the SCIP and interoperable and emergency communications in Connecticut. Table 9 includes the links to these reference materials.

**Table 9: SCIP Reference Materials**

| Title                                                                | Description                                                                                                                                                                                                         | Source/Location                                                                                                                 |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Connecticut Interoperability Field Operations Guide (CTIFOG)         | <i>A public safety sensitive collection of technical reference material to aid Communications Unit personnel in establishing solutions to support communications during emergency incidents and planned events.</i> | Printed and distributed to communications personnel and dispatch centers                                                        |
| Connecticut Public Safety State Interoperability Executive Committee | <i>Record of the actions of the States Communications Interoperability governing body.</i>                                                                                                                          | <a href="http://www.ct.gov/demhs/cwp/view.asp?a=1923&amp;q=287890">http://www.ct.gov/demhs/cwp/view.asp?a=1923&amp;q=287890</a> |

| Title                                                                    | Description                                                                                                                                                                                                                                                                                                                         | Source/Location                                                                                                                                 |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| (CPSSIEC)<br>Monthly Meeting<br>Minutes                                  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                 |
| Connecticut<br>State Response<br>Framework<br>(SRF)                      | <i>The purpose of the State Response Framework is to describe the interaction of state government with local, federal and tribal governments, nongovernmental response organizations and other private sector partners, the media, and the public in implementing emergency response and recovery functions in times of crisis.</i> | <a href="http://www.ct.gov/demhs/lib/demhs/srf_v_4_1.pdf">http://www.ct.gov/demhs/lib/demhs/srf_v_4_1.pdf</a>                                   |
| Regional<br>Tactical<br>Interoperable<br>Communications<br>Plans (TICPs) | <i>These documents are specific to each of the five DEMHS regions and outline communications practices and both fixed and deployable assets.</i>                                                                                                                                                                                    | Filed with the SIEC                                                                                                                             |
| Emergency<br>Communications<br>and Warning<br>Appendix.                  | <i>The purpose of this Appendix is to detail how emergency information will be relayed to the public and emergency response partners in the State prior to, during and after an emergency.</i>                                                                                                                                      | Connecticut Response Framework<br><a href="http://www.ct.gov/demhs/lib/demhs/srf_v_4_1.pdf">http://www.ct.gov/demhs/lib/demhs/srf_v_4_1.pdf</a> |

## APPENDIX A: MAJOR SYSTEMS

Table A-1 lists major interoperable and emergency communication systems in the State of Connecticut.

**Table A-1: Major Systems, Updates, and New Systems**

| Major Systems Information |                                   |                      |                                                                                                                                   |                                                |                            |                            |
|---------------------------|-----------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------|----------------------------|
| System Type               | System Name                       | System Owner(s)      | System Description                                                                                                                | # Subscribers and Agencies                     | Users' Level of Government | Status and Changes/Updates |
| Shared Statewide System   | CS-PERN                           | State of Connecticut | 800MHz<br>Non-P25<br>Multi brand<br>Analog<br>Conventional<br>Not Encrypted<br>Other:<br>_____                                    | 5,000 subscribers<br>100 plus Agencies         | State<br>Local             | Existing System            |
|                           |                                   |                      | Primary Usage: Voice                                                                                                              |                                                |                            |                            |
|                           |                                   |                      | Number of Sites: 40                                                                                                               |                                                |                            |                            |
| Shared Statewide System   | Public Safety Data Network (PSDN) | State of Connecticut | Fiber<br>Supports P25<br>Cisco<br>Digital<br>Choose trunked/conventional – N/A<br>Encryption N/A<br>Other: High-speed fiber optic | 400+ agencies and/or applications and services | State<br>Local             | Existing System            |

| Major Systems Information |                                                                                             |                      |                                                                                                                                                       |                                        |                            |                            |
|---------------------------|---------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------|----------------------------|
| System Type               | System Name                                                                                 | System Owner(s)      | System Description                                                                                                                                    | # Subscribers and Agencies             | Users' Level of Government | Status and Changes/Updates |
|                           |                                                                                             |                      | Primary Usage: Data                                                                                                                                   |                                        |                            |                            |
|                           |                                                                                             |                      | Number of Sites: 400 plus                                                                                                                             |                                        |                            |                            |
| Shared Statewide System   | 8CALL90/8-TAC Interoperability Mutual Aid Radio System                                      | State of Connecticut | 800MHz<br>Non-P25<br>Multi brand<br>Analog<br>Conventional<br>Not Encrypted<br>Other:                                                                 | 5,000 subscribers<br>100 plus Agencies | State<br>Local<br>Federal  | Existing System            |
|                           |                                                                                             |                      | Primary Usage: Voice                                                                                                                                  |                                        |                            |                            |
|                           |                                                                                             |                      | Number of Sites: 40                                                                                                                                   |                                        |                            |                            |
| Shared Statewide System   | State Tactical On-Scene Channel System (STOCS). Five frequencies each, VHF, UHF and 800 MHz |                      | VHF (High Band): 150MHz to 170MHz<br>UHF (Upper High Band): 450MHz to 470MHz<br>800MHz<br>Non-P25<br>Other<br>Analog<br>Conventional<br>Not Encrypted | 8,000 subscribers<br>800 Agencies      | State<br>Local             | Existing System            |

| Major Systems Information |                                                         |                    |                                                                                                                                 |                            |                            |                            |
|---------------------------|---------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| System Type               | System Name                                             | System Owner(s)    | System Description                                                                                                              | # Subscribers and Agencies | Users' Level of Government | Status and Changes/Updates |
|                           |                                                         |                    | Other:<br>_____                                                                                                                 |                            |                            |                            |
|                           |                                                         |                    | Primary Usage: Voice                                                                                                            |                            |                            |                            |
|                           |                                                         |                    | Number of Sites: Portable Cross Band Repeaters 100 units                                                                        |                            |                            |                            |
| Shared Statewide System   | Statewide Coordinated Medical Emergency Dispatch (CMED) |                    | UHF (Upper High Band): 450MHz to 470MHz<br>Non-P25<br>Multi brand<br>Analog<br>Conventional<br>Not Encrypted<br>Other:<br>_____ |                            | State<br>Local             | Existing System            |
|                           |                                                         |                    | Primary Usage: Voice                                                                                                            |                            |                            |                            |
|                           |                                                         |                    | Number of Sites: 72 (licensed)                                                                                                  |                            |                            |                            |
| Shared Statewide System   | Statewide Police Hotline                                | Individually owned | Non P25 Low Band<br>Analog<br>Conventional                                                                                      | 99 Subscribers             | State<br>Local             | Existing System            |

| Major Systems Information                              |                                                                              |                 |                                                                                                         |                            |                            |                            |
|--------------------------------------------------------|------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| System Type                                            | System Name                                                                  | System Owner(s) | System Description                                                                                      | # Subscribers and Agencies | Users' Level of Government | Status and Changes/Updates |
| Multi-Jurisdictional System                            |                                                                              |                 | Not Encrypted<br>Other:<br>_____                                                                        | 84 Agencies                | Law Enforcement            |                            |
|                                                        |                                                                              |                 | Primary Usage: Voice                                                                                    |                            |                            |                            |
|                                                        |                                                                              |                 | Number of Sites: 99                                                                                     |                            |                            |                            |
| Shared Statewide System<br>Multi-Jurisdictional System | Connecticut State Fire Chief and Connecticut State County Fire Radio Systems |                 | VHF (Low Band): 30MHz to 50MHz<br>Non-P25<br>Analog<br>Conventional<br>Not Encrypted<br>Other:<br>_____ | 300 Agencies/Users         | State Local                | Existing System            |
|                                                        |                                                                              |                 | Primary Usage: Voice                                                                                    |                            |                            |                            |
|                                                        |                                                                              |                 | Number of sites: 50                                                                                     |                            |                            |                            |
| State Shared System                                    | MEDNET/ HEAR                                                                 |                 | VHF (High Band): 150MHz to 170MHz<br>Non-P25<br>Multi brand                                             | 50 Agencies                | State Local                | Existing System            |

| Major Systems Information |                                    |                            |                                                                       |                                    |                            |                            |
|---------------------------|------------------------------------|----------------------------|-----------------------------------------------------------------------|------------------------------------|----------------------------|----------------------------|
| System Type               | System Name                        | System Owner(s)            | System Description                                                    | # Subscribers and Agencies         | Users' Level of Government | Status and Changes/Updates |
|                           |                                    |                            | Analog<br>Conventional<br>Not Encrypted<br>Other:<br>_____            |                                    |                            |                            |
|                           |                                    |                            | Primary Use: Voice                                                    |                                    |                            |                            |
|                           |                                    |                            | Number of Sites: 50                                                   |                                    |                            |                            |
| Shared Statewide System   | Amateur Digital Radio System (DRS) | Public/Private Partnership | Non P25<br>Analog<br>Conventional<br>Not Encrypted<br>Other:<br>_____ | 200 Users                          | State<br>Local<br>Private  | Existing System            |
|                           |                                    |                            | Primary Use: Voice                                                    |                                    |                            |                            |
|                           |                                    |                            | Number of Sites: 30                                                   |                                    |                            |                            |
| State Shared System       | State Trunked Radio System         |                            | 700/800MHz<br>P25 Compliant<br>Multi brand<br>Digital                 | 12,500 subscribers<br>220 Agencies | State<br>Local             | Existing System            |

| Major Systems Information |                                                                  |                                   |                                                                                                                                                                                                         |                                  |                            |                            |
|---------------------------|------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------|----------------------------|
| System Type               | System Name                                                      | System Owner(s)                   | System Description                                                                                                                                                                                      | # Subscribers and Agencies       | Users' Level of Government | Status and Changes/Updates |
|                           |                                                                  |                                   | Trunked<br>Encrypted<br>Other: _____<br>_____<br>Primary Use: Voice<br>_____<br>Number of Sites: 64                                                                                                     |                                  |                            |                            |
| Regional Shared System    | Regional Law Enforcement Radio System (SCAN, WARN, FAPERN, RAFS) | Regional Law Enforcement Entities | VHF (High Band): 150MHz to 170MHz & UHF 450-512 MHz<br>Non-P25<br>Multi brand<br>Analog<br>Conventional<br>Not Encrypted<br>Other: _____<br>_____<br>Primary use: Voice<br>_____<br>Number of Sites: 60 | 1,000 subscribers<br>60 agencies | Local                      | Existing System            |

---

**APPENDIX B: LIST OF ACRONYMS**

|          |                                                                      |
|----------|----------------------------------------------------------------------|
| AAR      | After Action Report                                                  |
| ARES     | Amateur Radio Emergency Service                                      |
| AUXCOMM  | Auxiliary Communications                                             |
| CMED     | Statewide Coordinated Medical Emergency Dispatch                     |
| COMC     | Communications Unit Coordinator                                      |
| COML     | Communications Unit Leader                                           |
| COMT     | Communications Unit Technician                                       |
| COMU     | Communications Unit                                                  |
| CPSSIEC  | Connecticut Public Safety State Interoperability Executive Committee |
| CS-PERN  | Connecticut Statewide Police Emergency Radio Network                 |
| CTIC     | Connecticut Intelligence Center                                      |
| CTIFOG   | Connecticut Interoperability Field Operations Guide                  |
| CTS      | Connecticut Telecommunications System                                |
| DEMHS    | Division of Emergency Management and Homeland Security               |
| DESPP    | Department of Emergency Services and Public Protection               |
| DHS      | U.S. Department of Homeland Security                                 |
| DSET     | Division of Statewide Emergency Telecommunications                   |
| EMAC     | Emergency Management Assistance Compact                              |
| ESF 2    | Emergency Support Function 2 (Communications)                        |
| FCC      | Federal Communications Commission                                    |
| FEMA     | Federal Emergency Management Agency                                  |
| FirstNet | First Responder Network Authority                                    |
| MHz      | Megahertz                                                            |
| LMR      | Land Mobile Radio                                                    |
| MOA      | Memorandum of Agreement                                              |
| MOU      | Memorandum of Understanding                                          |
| NCSWIC   | National Council of Statewide Interoperability Coordinators          |
| NECP     | National Emergency Communications Plan                               |
| NEMA     | National Emergency Management Association                            |
| NESEC    | Northeast States Emergency Consortium                                |

---

|        |                                                              |
|--------|--------------------------------------------------------------|
| NG911  | Next Generation 911                                          |
| NGO    | Non-Governmental Organization                                |
| NIMS   | National Incident Management System                          |
| NPSBN  | Nationwide Public Safety Broadband Network                   |
| NRF    | National Response Framework                                  |
| NTIA   | National Telecommunications and Information Administration   |
| OEC    | Office of Emergency Communications                           |
| P25    | Project 25                                                   |
| PPD    | Presidential Policy Directive                                |
| PSAC   | Public Safety Advisory Committee                             |
| PSAP   | Public Safety Answering Point                                |
| PSDN   | Public Safety Data Network                                   |
| RACES  | Radio Amateur Civil Emergency Services                       |
| RECCWG | Regional Emergency Communications Coordination Working Group |
| REPT   | Regional Emergency Planning Team                             |
| RESF   | Regional Emergency Support Function                          |
| SCIP   | Statewide Communication Interoperability Plan                |
| SIEC   | State Interoperability Executive Committee                   |
| SLIGP  | State and Local Implementation Grant Program                 |
| SME    | Subject Matter Expert                                        |
| SOP    | Standard Operating Procedure                                 |
| SPOC   | Single Point of Contact                                      |
| STOCS  | State Tactical On-Scene Channel System                       |
| SRF    | State Response Framework                                     |
| SWIC   | Statewide Interoperability Coordinator                       |
| TERT   | Telecommunication Emergency Response Taskforce               |
| THIRA  | Threat and Hazard Identification and Risk Assessment         |
| TICP   | Tactical Interoperable Communications Plan                   |
| VHF    | Very High Frequency                                          |
| UHF    | Ultra High Frequency                                         |