

CISA | CYBERSECURITY AND INFRASTRUCTURE SECURITY AGENCY

# Louisiana Statewide Interoperability Executive Committee (SIEC)

October 23, 2019

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Emergency Communications Division



## CISA Overview

### Cybersecurity And Infrastructure Security Agency (CISA)

#### Emergency Communications Division

Enhances public safety interoperable communications at all levels of government, providing training, coordination, tools and guidance to help develop emergency communications

#### Infrastructure Security Division

Provides strategic guidance to public and private partners, promotes a national unity of effort, and coordinates Federal efforts to promote the security and resilience of the Nation's critical infrastructure

#### Cybersecurity Division

Offers cybersecurity programs and services to improve cybersecurity postures, including training, and technical assistance.

#### Integrated Operation Division

Provides tools and training to partners to help partners in government and industry manage the risks to their assets, systems, and networks.

#### Stakeholder Engagement Division

Leverages partnerships to build capacity for resilience across the Nation's critical infrastructure and the cybersecurity community.

#### National Risk Management Center

A planning, analysis, and collaboration center that identifies and addresses the most significant risks to the Nation's critical infrastructure

- Created by the *Cybersecurity and Infrastructure Security Agency Act of 2018*
- Leads the Federal Government's cyber security, critical infrastructure protection, and emergency communications efforts
- Unites efforts from across government and industry to understand and manage risks together



# What ECD Does

## Core Competencies



**CISA**  
CYBER+INFRASTRUCTURE



### National and Statewide Planning & Execution

Develop and implement nationwide emergency communications policy and plans, including the National Emergency Communications Plan (NECP) and 56 Statewide Communications Interoperability Plans (SCIPs)



### Federal Grant Coordination

Manage funding, sustainment, and grant programs to support communications interoperability



### National Governance

Support nationwide sharing of best practices and lessons learned through facilitation of the SAFECOM and Emergency Communications Preparedness Center (ECPC) governance bodies



### Priority Telecommunications Services (PTS)

Provide PTS over commercial networks to enable national security and emergency preparedness personnel to communicate during congestion scenarios across the nation



### Technical Assistance & Outreach

Build capacity with Federal, State, Local, Tribal, and Territorial stakeholders by providing technical assistance, training, resources, and guidance



### Assessment and Reports

Assess the Nation's progress regarding interoperable emergency communications to identify remaining gaps

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# The SAFECOM Interoperability Continuum

<b>Governance</b>	Individual Agencies Working Independently	Informal Coordination Between Agencies	Key Multi-Discipline Staff Collaboration on a Regular Basis	Regional Committee Working within a Statewide Communications Interoperability Plan Framework
<b>Standard Operating Procedures</b>	Individual Agency SOPs	Joint SOPs for Planned Events	Joint SOPs for Emergencies	Regional Set of Communications SOPs National Incident Management System Integrated SOPs
<b>Technology</b>	<small>DATA ELEMENTS</small> Swap Files <small>VOICE ELEMENTS</small> Swap Radios	Common Applications Gateway	Custom-Interfaced Applications Shared Channels	One-Way Standards-Based Sharing Proprietary Shared System Two-Way Standards-Based Sharing Standards-Based Shared System
<b>Training &amp; Exercises</b>	General Orientation on Equipment and Applications	Single Agency Tabletop Exercises for Key Field and Support Staff	Multi-Agency Tabletop Exercises for Key Field and Support Staff	Multi-Agency Full Functional Exercises Involving All Staff Regular Comprehensive Regionwide Training and Exercises
<b>Usage</b>	Planned Events	Localized Emergency Incidents	Regional Incident Management	Daily Use Throughout Region

Limited Leadership, Planning, and Collaboration Among Areas with Minimal Investment in the Sustainability of Systems and Documentation

High Degree of Leadership, Planning, and Collaboration Among Areas with Commitment to and Investment in Sustainability of Systems and Documentation

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# National Emergency Communications Plan

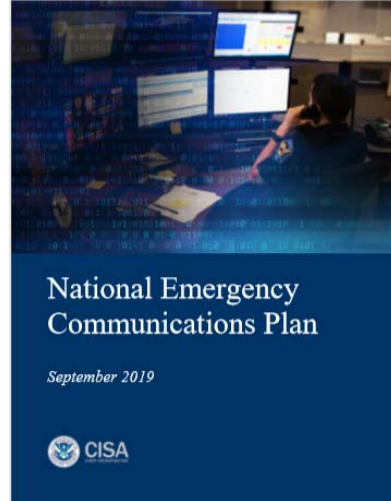
The NECP was released September 25, 2019.



The NECP is available for download at:  
[www.cisa.gov/necp](http://www.cisa.gov/necp)

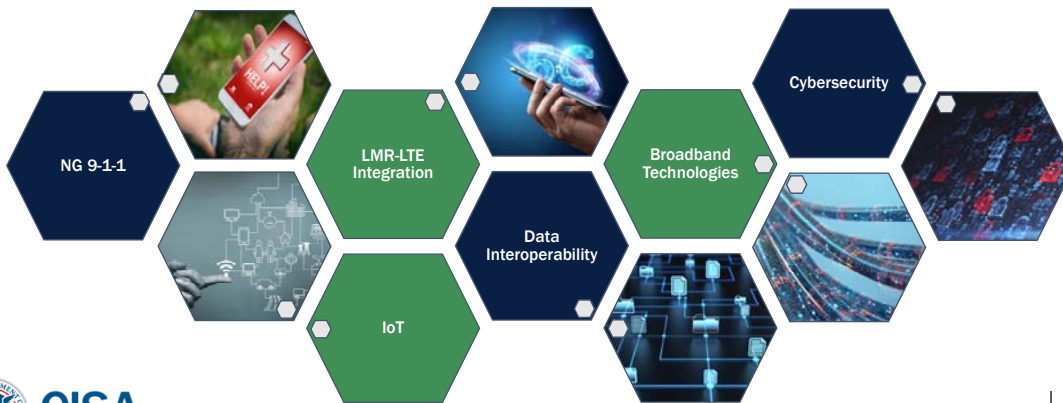


For more information on the NECP, contact:  
[necp@cisa.dhs.gov](mailto:necp@cisa.dhs.gov)



## Drivers of Change

Since the NECP's first publication in 2008 and its update in 2014, there have been significant advancements in technology and changes to the emergency communications landscape, affecting the Nation's ability to communicate. While, new technologies have increased capabilities, they also introduce new challenges around data interoperability and cybersecurity. Examples of drivers of change include:



# The Updated NECP

Several of the key updates to the NECP include, but are not limited to:



### A Focus on Adaptive Governance Strategies

Embracing adaptive governance models that are flexible and support collaborative decision-making and expand membership composition



### Advocacy for Updated Training & Exercise Programs

Expanding training and exercise participation and content to improve operational policies and procedures



### A Technology and Infrastructure Goal

Building upon the previous Research and Development Goal and expanding to cover key data interoperability, NG911, and FirstNet considerations



### A Cybersecurity Goal

Taking proactive measures to manage cybersecurity risks and strengthen the cyber posture of the Emergency Communications Ecosystem



### Expanded Concept of Communications Resiliency

Expanded to include periodic testing and user-usage observations, active resources sharing, and regionalization of shared infrastructure, networks, and services



### Recommendations for Enhanced Communication Coordination

Establishing and maintaining a repeatable process to periodically observe and record user proficiency for communications systems



## Emergency Communications Iceberg Graphic

## The True Cost and Scope of Emergency Communications

### What Most People See



- Voice Systems (Telephone)
- Computer Aided Dispatch (CAD) Systems
- Transition to Next Generation 911 (NG911)

### What People Don't See



#### Radio Communications Systems

- Mobile and Portable Land Mobile Radio (LMR)
- Interoperability Maintenance Costs
- Communication Towers
- Tower Equipment Sheds



#### Broadband & Data Systems

- Mobile Data Terminals (MDT)
- FirstNet
- Government Emergency Telecommunications Service (GETS)
- Wireless Priority Service (WPS)



#### Alerts & Warnings

- Outdoor Warning Systems
- Emergency Alert System (EAS)
- Wireless Emergency Alerts (WEA)
- IPAWS (including silver/amber alerts)
- TV/Radio/Website/Media Updates
- Social Media Outlets

#### Governance

- SWIC / Communications Champion
- Statewide Communications Office
- Strategic Planning

#### Training & Exercises

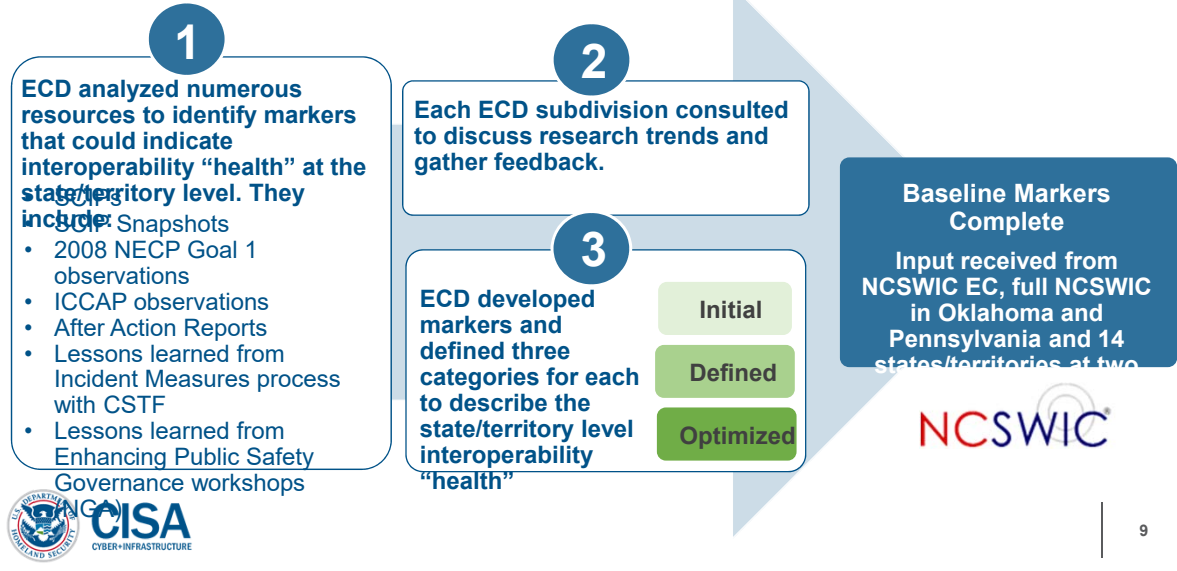
- Telecommunicator/Dispatch Training and Retention
- Agency LMR, Telephone, Alerts/Warning procedures
- Agency System Maintenance staff (technicians, engineers)
- Incident Communications Training
- Communications Exercise (tabletop, functional)
- Technical Emergency Response Training (TERT)
- Incident Communications Unit staff training, including:
  - Communications Unit Leader (COML)
  - Communications Technician (COMT)
  - Incident Tactical Dispatcher (INTD) Training
  - Radio Operator (RADO) Training
  - Information Technology Service Unit Leader (ITSL)
  - Audio Gateway Information and Training
  - Cybersecurity Training and Awareness

#### Cybersecurity

- Expertise and Planning
- Tools and Solutions
- Risk and Vulnerability Management
- Prevention Equipment and Training



# State Interoperability Marker Development



# Benefits for States and Territories

- Understand impacts of interoperability efforts
- Improve coordination and buy-in from lawmakers and executive branch staff
- Reduce workload and reporting requests by eliminating SCIP Snapshots and reducing time required to gather data
- Improve strategic planning and implementation aligned to ecosystem
- Justify grant funding and state budget requests
- Enhance the SCIP planning process
- Improve coordination with locals
- Enhance governance body participation and membership

# Benefits for CISA



Understand state/territory interoperability capabilities and gaps and assist in improving the SCIP process



Improve alignment to the NECP



Improve TA offerings to better meet state/territory needs



Justify resource requirements to DHS leadership, OMB, Congress, and the President



Respond to Congressional, GAO and OMB requests for ECD program impacts



# DATA CAPTURE PROCESS

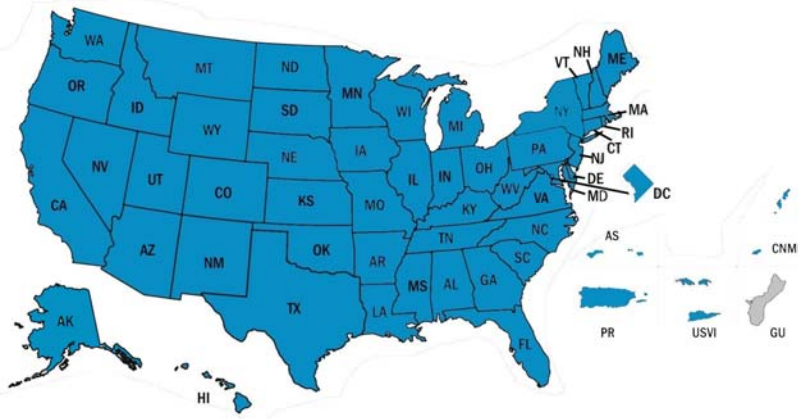
## Governance

Marker #	Best Practices / Performance Markers	Initial	Defined	Optimized
1	<ul style="list-style-type: none"> <li>State-level governing body established (e.g., SIEC, SIGB)</li> <li>Governance framework in place to sustain all emergency communications</li> </ul>	Governing body does not exist, or exists and role has not been formalized by legislative or executive actions	Governing body role established through executive order	Governing body role established through state law
2	<ul style="list-style-type: none"> <li>SIGB/SIEC participation</li> <li>Statewide governance body is comprised of members who represent all components of the emergency communications ecosystem</li> </ul>	Initial (1-2) Governance body participation includes: <ul style="list-style-type: none"> <li><input type="checkbox"/> Communications Champion/SWIC</li> <li><input type="checkbox"/> LMR</li> <li><input type="checkbox"/> Broadband/LTE</li> <li><input type="checkbox"/> 911</li> <li><input type="checkbox"/> Alerts, Warnings and Notifications</li> </ul>	Defined (3-4) Governance body participation includes: <ul style="list-style-type: none"> <li><input type="checkbox"/> Communications Champion/SWIC</li> <li><input type="checkbox"/> LMR</li> <li><input type="checkbox"/> Broadband/LTE</li> <li><input type="checkbox"/> 911</li> <li><input type="checkbox"/> Alerts, Warnings and Notifications</li> </ul>	Optimized (5) Governance body participation includes: <ul style="list-style-type: none"> <li><input type="checkbox"/> Communications Champion/SWIC</li> <li><input type="checkbox"/> LMR</li> <li><input type="checkbox"/> Broadband/LTE</li> <li><input type="checkbox"/> 911</li> <li><input type="checkbox"/> Alerts, Warnings and Notifications</li> </ul>

- Objective:** Complete governance lane in group setting and continue in breakouts
- Outcome:** Complete submission of State Interoperability Markers data



# National Completion Map

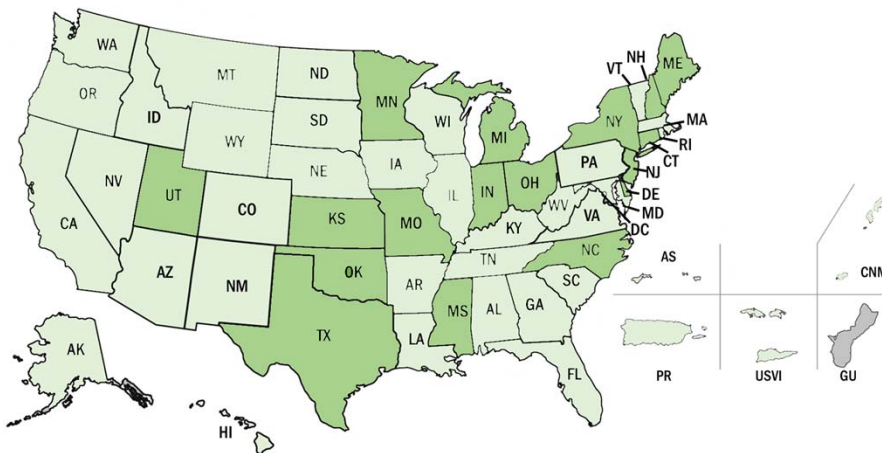


- Key**
- States / Territories with State Marker Data
  - States / Territories without State Marker Data

\* 55 States and territories have now completed and submitted their markers



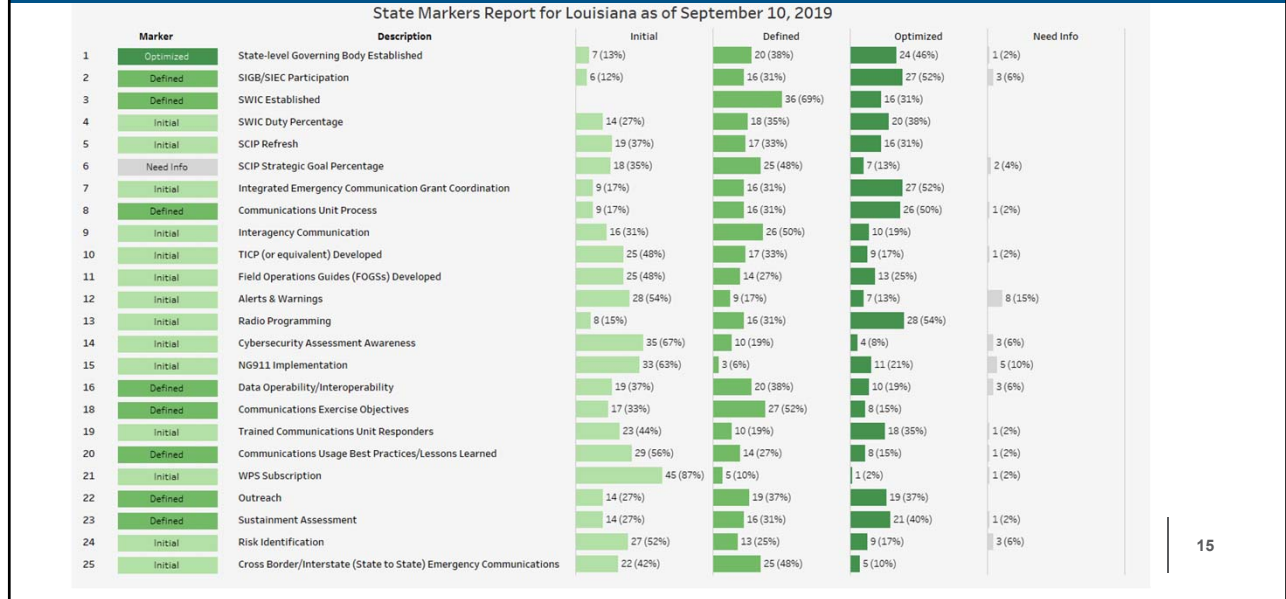
# State Marker Status Map



- Overall State Averages**
- 0% - Optimized
  - 34% - Defined
  - 64% - Initial
  - 2% Incomplete



# Preliminary Louisiana Self-Assessment



## Future SIEC Membership Feedback

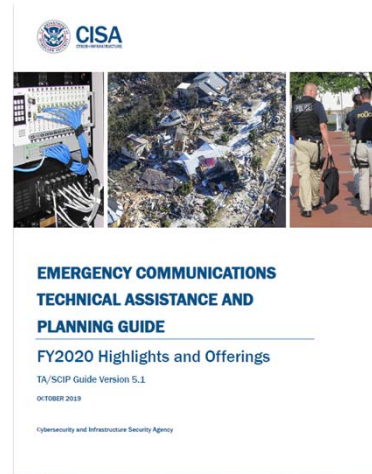
- At a future SIEC meeting, ECD would like to conduct a brief review and validation of your interoperability markers
- Using live capture and an anonymous polling tool called "Poll Anywhere" we can quickly validate your baseline
- State interoperability markers will drive our efforts in future ICTAP Technical Assistance program offerings, Statewide Communications Interoperability Plan (SCIP) workshops, and implementation of *National Emergency Communications Plan (NECP)* goals





## FY2020 ICTAP Technical Assistance

- ECD's Interoperable Communications Technical Assistance Catalog will be available soon
- Requests are coordinated through your Statewide Interoperability Coordinator (SWIC)
- <https://www.dhs.gov/publication/ictapscip-resources>



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## Questions?



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## Contact

### Cybersecurity and Infrastructure Security Agency Emergency Communications Division

<https://www.cisa.gov/emergency-communications>

#### Jim Lundsted

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# Backup Slides

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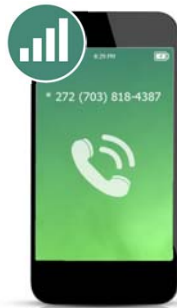


# How WPS Works

1. Confirm You Have a Signal

2. Enter \*272 + Destination Number

3. Press SEND



# How WPS "Really" Works

