



WISCONSIN

Statewide Communication Interoperability Plan (SCIP) Implementation Report

November 2010

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SCIP Implementation Report Overview

The Statewide Communication Interoperability Plan (SCIP) Implementation Report provides an annual update on your State's progress in achieving the initiatives and strategic vision identified in the SCIP. Further, this information will provide OEC with a clearer understanding of your State's capabilities, needs, and strategic direction for achieving interoperability statewide.

- **Part 1, "SCIP Implementation Update"** of the report is to be completed by the Statewide Interoperability Coordinator (SWIC) or Statewide Communication Interoperability Plan (SCIP) Point of Contact (POC). As required by Congress, States provide updates and changes to the status of their Statewide Interoperable Communications Plans in this section. Each State created a SCIP in 2007 and all have been regularly updated. The template sections match those required in the original SCIP, and extensive instructions were provided to the States to understand the requirements of these sections and assist in the development of their SCIPs. The initiatives within each report include milestones identified in the NECP which will be standardized, as well as State-specific efforts.
- **Part 2, "UASI Interoperability Communications Assessment,"** is to be completed by the designated UASI and submitted to the SWIC or SCIP POC. Goal 1 of the NECP states that by the end of 2010, 90% of DHS-designated Urban Areas will be able to demonstrate response-level communications during a routine event. To assess Goal 1, OEC has sent teams of evaluators to the 60 UASI cities to observe communications during a large-scale planned event. In addition to the event observation, this section of template will provide OEC with broader capability data across the lanes of the Interoperability Continuum which are key indicators of consistent success in response-level communications.
- **Part 3, "NECP Goal 2 Methodology,"** is to be completed by the SWIC or SCIP POC. This portion of the SCIP Implementation Report will help the State prepare for the assessment of NECP Goal 2 in 2011. In 2011, capability data (identical to the questions asked of UASIs in the 2010 report) and response-level performance data will be collected at the county/county-equivalent level to meet the NECP Goal 2 mandate of assessing response-level communications in "non-UASI" jurisdictions. Through this section of the template, OEC is asking for each State's methodology, which must address key issues such as: ensuring that all counties will be assessed; ensuring adequate local input; and ensuring completion by the September 30, 2011 deadline. OEC will validate the proposed approaches before States begin the data collection process in FY 2011.

Part 1. SCIP Implementation Update

The following sections ask that States provide an update on the implementation of their SCIP. States will first provide an overview of their current interoperability environment (“State Overview”) and then identify their vision and mission statements (“Vision and Mission”). The remaining sections in Part I ask that States consider their progress along the five lanes of the SAFECOM Interoperability Continuum (Governance, Standard Operating Procedures [SOPs], Technology, Training and Exercises, and Usage).

For each lane of the Continuum, States are asked to provide a brief narrative explaining their efforts related to the identified lane. For each lane of the Continuum, States are also asked to address initiatives identified in the National Emergency Communications Plan (NECP) as well as any additional initiatives identified within their State. NECP-related initiatives appear pre-populated in the “NECP Initiatives” section of each table below. Additional initiatives identified by States can be addressed in the “Additional State Initiatives” section of each table below. States are not limited to the number of fields provided in the template and should add additional rows as needed to accurately address all applicable initiatives. When completing these tables, the following information must be provided for each initiative:

- **Gap:** Identify the gap that this initiative will address.
- **Owner:** Identify the State owner of this specific initiative.
- **Milestone:** List the date that this initiative was or is scheduled to be completed.
- **Status:** Identify whether this initiative is complete, in progress, or not started.

The following is an example of how the charts in Part 1 should be completed:

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
NECP Initiatives				
<i>Establish a full-time statewide interoperability coordinator or equivalent position.</i>	No full time SWIC in place	Governor	2/2009	Complete

Part 1 is to be completed by the SWIC or SCIP POC.

State Overview

Overview of the State and its interoperability challenges:

The Statewide Communications Interoperability Plan (SCIP) provides an overview of the current status of interoperable communications in the state of Wisconsin, including a discussion of existing governance structures, available technology, the existence of standard operating procedures and of interoperable communications training and exercises. In some cases, it is necessary to acknowledge the fact that additional information, planning, and effort is necessary to fully develop an assessment of the current status of interoperable communication and alternatives. In this case, the SCIP plan provides an outline (timelines, assignment of responsibilities and benchmarks) for the completion. Additional information, related plans and documents are cataloged, indexed and included to capture the full scope of interoperable initiatives in the state.

The initiatives for a statewide public safety communications in Wisconsin were outlined in the precursor document entitled Wisconsin Statewide Public Safety Communications System (WSPSCS). It was adopted by Wisconsin's State Interoperability Executive Council operating under the authority of Executive Order 87. WSPSCS was revalidated by the Interoperability Council, the successor to the SIEC operating under WI Statute 16.9645. The initiatives are now detailed in the Statewide Communications Interoperability Plan (SCIP). These initiatives (previously called goals and objectives) are:

- Coverage of the state of Wisconsin with a series of conventional repeater systems to allow for a Mutual Aid Radio Channel (MARC) for use by all public safety disciplines.
- Provision for additional mutual aid radio channels for simplex (end user radio to end user radio) communications in support of multi-discipline operations co-located at a single site/incident.
- Patching methods, including using radio over internet protocol (RoIP) technologies to enable the patching of agency conventional radio channels with other agency radio channels. This also connects dispatch centers to foster redundancy and a methodology to back up center operations by another dispatch center.
- A shared statewide trunked radio communications network that, from its early build out stages, enables a flexible platform for multiple, simultaneous talk group communications paths over a larger geographical area and without interference between these communications paths or an impediment to their real time usage. The shared system is designed to effectively interface with existing trunked radio systems compatible with an ISSI interface.
- Standard Operating Procedures that are not system specific, applicable to all public safety disciplines and joint responses, and fully consistent with National Incident Management provisions.
- Functional Specifications for equipment that fosters interoperability.

All of these initiatives are in various stages of achievement. This SCIP documents what has been achieved, identifies the key players, and defines a method to jointly plan, govern and

implement the plan. Generally:

- MARC Repeaters cover most of Wisconsin and support mutual aid operations. However, Wisconsin experiences some operational difficulty in remote areas and interference when two adjacent systems, both activated, clash and inadvertently talk over each other.
- Connecting conventional agency systems via RoIP was initiated in 2008 and training and optimization is ongoing.
- The shared statewide trunking system known as the Wisconsin Interoperable System for Communications (WISCOM) was initiated with use of Public Safety Interoperability Communications (PSIC) funding in 2008.
- A Strategic Technology Reserve (STR) consisting of a robust mobile communications trailer and radio cache is under construction and will be available to support any jurisdiction or agency, long term, statewide in early 2011.

Wisconsin held its first SCIP Implementation Workshop in Appleton, WI on June 23, 2010. This followed an extensive outreach to collect stakeholder input on current SCIP goals and objectives via a web-based on line tool utilizing “survey monkey” and OJA hosted two conference calls on May 26, 2010 for local and state agency stakeholders to phone in with comments. This data was shared with the workshop facilitators and incorporated into the plan update efforts.

The outcome from the SCIP Workshop was presented to the Interoperability Council on September 16, 2010. The revised SCIP goals and objectives were adopted to be effective on October 1, 2010. These goals and objectives are intended to be used as written subject to strategic changes as the Interoperability Council may find necessary in the future. Some of the new initiatives have been adopted but not fully developed at the time of this report. A second SCIP Implementation Workshop is planned for 2011.

Vision and Mission

Overview of the interoperable communications vision and mission of the State:

The State SCIP has a timeframe of four years (November 2007 – November 2011).

Vision: Wisconsin’s emergency response community faces many critical issues with regard to communications interoperability. This community inventoried these issues during sessions in July and August 2007 making the following individual statements. Individually, they said they are:

- Funding
- Government Collaboration
- Training, Exercises

- Change management – expectations
- Volunteer service considerations
- Border problems
- People do not want change
- Making any unfunded mandate.
- Determining which carrot and which stick works for which group.
- Different bands for responders even within the same dispatch center. It stifles interoperability.
- We need to educate local political leaders. These political leaders then need to advocate all the way up the line. Needs that go from bottom on up with political leaders get addressed. Need to convince small towns to participate in this plan/larger idea.
- Problems will be encountered by not getting communication to all the people involved. Need to form regions and regional working groups. Plans should be living breathing documents. Keep building and working on plans so there is continued involvement at local level. Maybe need better strategy for funding.
- If we can focus on making regional models work, than the pressure gets put on the state to create connectivity. Politicians won't be able to ignore it if it gets to state level.
- If successful regions are out there, give them support and let others follow them.
- State needs to define what regions look like. May not be achievable short-term. Maybe we should look at other states to see how they addressed regions. Minnesota DOT/metro system.
- As regions grow, people are incorporated in MN. Home rule state issue is different between WI and MN.
- WCIA group 10 counties. Did study and formed to get more money. Now they regularly meet to make plans/improve system. Worked to get frequencies, re-program radios and got repeaters to make their plan happen. Runs on BadgerNet system. 10 county area also paid for dispatch centers in ring or adjacent counties to integrate with their system. Others want to join these 10 counties. Pilot project funded through OJA.
- Asks what is our concept of regions: is it based on de-centralization or on ability of those in area to work on system. Right now seems like a moving target. What are distance limitations of a system? Define what a region is. Needs to be based off something that is objective, like distance limitations.
- Problem is with local officials.
- State must have discussions with local officials.
- Professional organizations must lobby local officials.
- The state must provide more resources to locals.
- The state must place a greater emphasis on regionalization.
- Local, state, and regions must effectively collaborate.

- Consider regional planning that has already addressed interoperability issues.
- Establish priorities for implementation of statewide plan.
- Locals are not familiar with specific build out plans.
- Local agencies must buy into statewide plan.
- Federal buy-in to statewide plan.

Mission: The mission of the Wisconsin's emergency response community is to achieve statewide public safety interoperability among Federal, state, local and tribal public safety agencies. Through inclusive and representative governance, led by the Interoperability Council, utilizing inclusive and representative governance, guided by the strategic principles cited previously, we will focus on implementing short and long term initiatives (goals and objectives) to accomplish this vision and strategy.

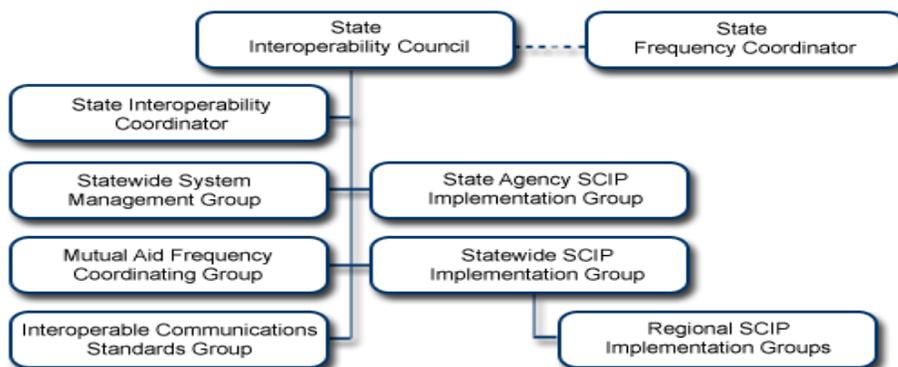
Governance

Overview of the governance structure, practitioner-driven approaches, and funding:

The Interoperability Council was established under Wis. Stats. 15.107 and 16.9645 in March 2008 to develop strategies and recommend standards and guidelines for achieving statewide communications interoperability for Wisconsin's public safety community. The Council advises the Office of Justice Assistance on the allocation of homeland security grants and other funding available for the Wisconsin Interoperability Initiative. The current council replaces its predecessor, the State Interoperability Executive Council, which was created by executive order in 2004.

As the main statewide planning and governance body for communications interoperability in Wisconsin, the Council has chartered numerous other subcommittees and working groups to address particular communications issues. Members are appointed by the Governor and represent key state and local stakeholders.

To this end, the Council has adopted the [Statewide Communication Interoperability Plan](#) (SCIP) to provide a shared strategic vision and implementation roadmap. It has also embraced a shared governance approach to encourage widespread support for achieving statewide interoperability by identifying and addressing the concerns, perspectives and any unique circumstances of the jurisdictions and organizations that will benefit most from interoperability. The multi-disciplinary sub-committees included in the chart below have been established to develop policies and procedures and coordinate SCIP implementation activities:



The **Statewide System Management Group (SSMG)** oversees the development and implementation of [WISCOM](#), a common statewide system that will allow responders across the state to seamlessly communicate during a major disaster. The SSMG ensures that all aspects of WISCOM are user-driven and that the system meets the needs of the public safety community statewide.

The **Mutual Aid Frequency Coordinating Group (MFCG)** is responsible for managing the day-to-day use of Wisconsin’s statewide mutual aid frequencies and ensures that the resources are equitably available to all public safety agency users within Wisconsin and in a manner consistent with the goals, objectives, and policies reflected in the Statewide Communication Interoperability Plan ([SCIP](#)).

The **Interoperable Communications Standards Group (ICSG)** was created by the Wisconsin Interoperability Council to develop standards that will improve the quality and consistency of public safety radio communications across Wisconsin. Standards developed by the ICSG will assist public safety answering points, known as PSAPs or dispatch centers, as well as provide a credentialing process for individuals responsible for communications under Incident Command System (ICS) protocols.

The **State Agency SCIP Implementation Group** has been established to guide the implementation of the Statewide Communication Interoperability Plan ([SCIP](#)) among Wisconsin's state government agencies.

While [Regional Interoperability Councils](#) will implement the Statewide Communication Interoperability Plan (SCIP) in a manner that addresses unique local and regional circumstances, a **Statewide SCIP Implementation Group (SSIG)** will ensure that these regional implementations result in a final system that achieves statewide interoperability.

Membership on the SSIG will include leadership from each of the six Regional Councils and

will report to, and be guided by, the State Interoperability Council. In addition to coordination among regional efforts, the group will develop milestones for assessing regional progress in the implementation process, provide consistent policies for regional efforts and develop templates for use by Regional Councils for implementation planning, training and exercise activities.

Governance Initiatives

The following table should outline the strategic governance initiatives, gaps, owners, and milestone dates Wisconsin outlined in its SCIP to improve interoperable communications.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
NECP Initiatives				
<i>Establish a full-time statewide interoperability coordinator or equivalent position.</i>		Office of Justice Assistance	2007	Complete
<i>Incorporate the recommended membership into the Statewide Interoperability Governing Body (SIGB)¹.</i>		Office of Justice Assistance	2008	Complete
<i>Establish the SIGB via legislation or executive order.</i>		Office of Justice Assistance	2008	Complete
Additional State Initiatives (numbers in parentheses represent goals in SCIP)				

1 SIGBs should include representatives from the Governor's office, State and local elected officials, State and local emergency medical services, State and local health officials, State and local fire response services, State and local law enforcement, State and local emergency management, State and local homeland security offices, tribal governments, State and local transportation agencies, military organizations, Federal agencies that need to be interoperable with State and local emergency responders, Urban Area Security Initiative (UASI) regions, critical infrastructure, non-government organizations, response and recovery organizations, and regional planning committee chairpersons. This guidance is included in the Statewide Interoperability Planning Guidebook:

<http://www.safecomprogram.gov/NR/rdonlyres/18F02413-CC4D-41B2-9097-F5FF04E080C7/0/StatewidePlanningGuidebookFINAL.pdf>.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
(NEW) Conduct a SCIP Implementation Workshop to keep WI SCIP plan current	There is a desire to keep the plan current and create actions plans for each initiative.	Office of Justice Assistance & Statewide Interoperability Manager/Planner	JUN 2011	In Progress
(NEW) Create Interstate interoperability connections	Create Interstate interoperability connections to other P25 systems: <ul style="list-style-type: none"> • Adjacent States • In-state (counties) • Federal (Integrated Wireless Network (IWN)) 	Office of Justice Assistance & Statewide Interoperability Manager/Planner	To Be Determined	In Progress
(LT 7.1) Integrate Interoperability Planning	Conduct analysis and act to remove all procedural conflicts and gaps between the Wisconsin SCIP and other Wisconsin statewide plans. <ul style="list-style-type: none"> • Establish a clearinghouse to review proposed modifications, conflicts, gaps, etc. between WI SCIP and other statewide plans 	Office of Justice Assistance & Statewide Interoperability Manager/Planner	JAN 2012	In Progress
(ST 1.5) Conventional Mutual Aid Radio Channel (MARC) Repeater Coverage	Eliminate frequency usage conflicts on statewide mutual aid channels by encouraging agencies that are currently using one of the mutual aid frequencies for local usage to move their operation to another frequency	Office of Justice Assistance & Statewide Interoperability Manager/Planner	SEP 2011	In Progress - Complete as possible awaiting licensed agencies to consider changes.

Standard Operating Procedures

Overview of the shared interoperable communications-focused SOPs

A companion document to this SCIP, are Wisconsin's standard operating procedures (Appendix D and Figure 4-8) which are undergoing review and adoption at this time. Regional

listening sessions have occurred, and the IC’s workgroup. The Mutual Aid Frequency Coordinating Group (MFCG) has appointed a sub-workgroup to complete the revisions. Meetings have occurred in 2010 with completion of an updated draft to be available in June 2011.

Wisconsin’s SOPs (WSPSCS SOP3.3) establish binding authority on the components they cover. A special condition upon recipients of Homeland Security Grant Funding is compliance with these procedures. Wisconsin ensures that SOPs are enforced and being used in the field occurs through a state grant condition/requirement that exercise and evaluations reports are forwarded to the SAA for sharing with the Interoperability Coordinator. These reports are appropriately shared with the SIEC.

SOP Initiatives

The following table should outline the SOP strategic initiatives, gaps, owners, and milestone dates Wisconsin outlined in its SCIP to improve interoperable communications.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
NECP Initiatives				
<i>Tactical planning among Federal, State, local, and tribal governments occurs at the regional interstate level.</i>	Develop Tactical Communications Interoperability Plans (TICP) for each County and a State Agency TICP	Office of Justice Assistance, the SWIC (Mgr.), IC assisting the: State Agency SCIP and Regional SCIP Implementation Groups	<ul style="list-style-type: none"> ● State TICP JUN 2011 ● MAR 2011 30% of Counties ● JUL 2011 30% of Counties ● APR 2012 66% of Counties 	In Progress
<i>All Federal, State, local and tribal emergency response providers within UASI jurisdictions implement the Communications and Information Management section of the National Incident Management System (NIMS).</i>	Area-wide SOPs exist and steps have been taken to institute these interoperability procedures among included agencies. Formal NIMS/ICS procedures are in place, but understanding varies among agencies leading to some issues during responses and/or incidents.	●Office of Justice Assistance, the SWIC (Mgr.), IC assisting the: UASI's Milwaukee Urban Area Working Group (UAWG)	DEC 2011	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
<i>Incorporate the use of existing nationwide interoperability channels into SOPs.</i>	Mutual Aid Frequency Plan needs to be updated – perhaps tied to narrow banding activities.	Office of Justice Assistance, the SWIC (Mgr.), IC assisting the: Mutual Aid Frequency Coordination Group	OCT 2010	Complete
<i>Update SCIP to reflect plans to eliminate coded substitutions throughout the Incident Command System (ICS).</i>	Promote local agency adoption.	Office of Justice Assistance, the SWIC (Mgr.), IC	DEC 2007	Complete
<i>Define alternate/backup capabilities in emergency communications plans.</i>	Develop Tactical Communications Interoperability Plans (TICP) for each County	Office of Justice Assistance, the SWIC (Mgr.), IC and Regional SCIP Implementation Group	See above for Tactical planning among Federal, State, local, and tribal governments occurs at the regional interstate level.	In Progress
Additional State Initiatives (numbers in parentheses represent goals in SCIP)				
(ST 4.1) – User Procedures and Standards	Utilize the Feedback Summary on the 2007 listening sessions to complete, approve, and publish standard operating procedures (SOPs)	Office of Justice Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency Coordination Group	JUN 2011	In Progress
(ST 6.1) – Create Strategic Technology Reserves	Implement a Mobile Communications Center maintained by Wisconsin Emergency Management (WEM) ● Procedures to be developed	Office of Justice Assistance & Statewide Interoperability Manager assisting: Wisconsin Emergency Management	Jun 2011	In Progress
(ST 6.1) – Create Strategic Technology Reserves	Utilize Communications Assets and Mapping (CASM) tool to identify gaps in Wisconsin's Strategic Technology Reserve and create	Office of Justice Assistance, the SWIC (Mgr.), IC assisting the: Regional SCIP	● MAR 2011 complete 33% of Counties ● MAR 2011 complete	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
	<p>plans to upgrade if necessary. The mobile command posts and mobile communications centers will be properly National Incident Management System (NIMS) resource typed</p> <ul style="list-style-type: none"> • Survey all communications equipment (ACU-1000 etc.) 	Implementation Group	<p>33% of Counties <ul style="list-style-type: none"> • MAR 2011 complete 33% of Counties</p>	

Technology

Overview of the technology approaches, current capabilities, and planned systems:

Wisconsin plans include continuing support of legacy systems, and developing interfaces among disparate systems, while migrating to newer technologies. In Wisconsin, upgrading independent, local systems is a local decision. Plans for migration to consolidated systems follow in future objectives of the state's long term goal for WISCOM, a statewide communications system (long term Goal L.1.2).

As the state of Wisconsin provides leadership and moves the public safety community towards the plan's "system of trunking systems," parallel efforts will implement the Radio over Internet Protocol (RoIP) methodology-- used to connect (minimally) county dispatch centers together via a patching system on the statewide BadgerNet telephone network. It is envisioned that this capability will be supported through the useful life of existing independent conventional radio systems.

It is envisioned that local independent conventional systems will be supplemented by the MARC Conventional VHF Repeater systems as long as much of Wisconsin emergency communications continue on local conventional systems. The statewide trunking communications system will be a supplement to existing communications systems and mutual aid methods. As the statewide VHF trunking network grows in users and capacity, local communities will have the option of consolidating with the statewide system. However, that remains a local decision.

Major Systems

The following tables should list the major systems in Wisconsin and include those used for solely interoperable communications, large regional systems specifically designed to provide interoperability solutions, and large wireless data networks.

Shared Statewide System ² (Name)	Description (Type, frequency, P25 compliance, etc.)	Status (Existing, planned, etc.)
Wisconsin Interoperable System for Communications (WISCOM)	VHF P25 Trunked	Under Construction

State Systems (Name)	Description (Type, frequency, P25 compliance, etc.)	Status (Existing, planned, etc.)
State Patrol Radio Network	VHF Conventional State Patrol and DNR Warden Dispatch	Existing
WEM Radio Network	VHF Conventional Emergency Management and Public Safety	Existing
West Central Interoperability Alliance Radio Over Internet Protocol (RoIP)	RoIP Gateway via BadgerNet	Existing

Regional Systems (Name)	Description (Type, frequency, P25 compliance, etc.)	Status (Existing, planned, etc.)
County-wide Local Agency Systems	Conventional and Trunked	Existing
FOXCOM (Outagamie, Winnebago)	700/800 MHz Trunked	Planned

Technology Initiatives

The following table should outline the technology strategic initiatives, gaps, owners, and milestone dates Wisconsin outlined in its SCIP to improve interoperable communications.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
NECP Initiatives				
<i>Program nationwide interoperability channels into all existing emergency responder radios.</i>	Programming radios is a local endeavor often tied to narrow banding	Local Agency	JAN 2013	In Progress

² Shared statewide radio systems are typically designed to consolidate the communications of multiple State agencies onto a single system, thereby providing strong interoperability. Many States also make these systems available to Federal, local, and tribal agencies on a voluntary basis. In this case, local governments either chose to use the shared statewide radio system as their primary system, or they decided to interface their system to the shared statewide radio system creating a system of systems.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
	efforts.			
Additional State Initiatives (numbers in parentheses represent goals in SCIP)				
(NEW) Achieve Interstate Interoperability	Interstate Interoperability <ul style="list-style-type: none"> ● Connections to other P25 systems ● Adjacent States, In State (counties), Federal (IWIN) 	Office of Justice Assistance, the SWIC (Mgr.), IC and Statewide System Management Group	TBD at next SCIP Imp Workshop	Just Started
(LT 1.1) Implement Statewide Communications (WISCOM)	Provide mobile coverage. Establish the VHF backbone to serve 95% of the State geography	Office of Justice Assistance, the SWIC (Mgr.), IC and Statewide System Management Group in conjunction with <ul style="list-style-type: none"> ● WI State Patrol, and ● Dept of Nat. Resources 	JUL 2011	In Progress
(LT 1.2) Implement Statewide Communications (WISCOM) (LT 1.3) Implement Statewide Communications (WISCOM)	Expand the coverage capability of the backbone system Expand the systems to serve portables, to provide for growth to support additional users and subscribers	Office of Justice Assistance, the SWIC (Mgr.), IC and Statewide System Management Group in conjunction with <ul style="list-style-type: none"> ● WI State Patrol, and ● Dept of Nat. Resources 	TBD at next SCIP Imp Workshop	In Progress
(ST 2.3) Expand Access to Mutual Aid Channels	Research and create a methodology to migrate agencies with common channels from wide to narrowband in a coordinated manner	Office of Justice Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency Coordination Group and the Statewide SCIP Implementation Group	JAN 201#	In Progress
(ST 1.1) Conventional MARC Repeater Coverage (ST 1.4) Conventional MARC Repeater Coverage	<ul style="list-style-type: none"> ● Ensure MARC and Interagency Fire Emergency Radio Network (IFERN) coverage in each county 	Office of Justice Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency	IFERN Grant Program DEC 2010 MARC	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
	<p>that currently does not have it.</p> <ul style="list-style-type: none"> ● Support repeater MARC bases/control stations or control links for dispatch centers, voting receiver systems for MARC repeaters, and base stations on other mutual aid channels including Wisconsin Police Emergency Radio Network (WISPERN), IFERN, 8CALL/8TAC and VCALL/VTAC ● Each county dispatch center should have access to a MARC repeater and an IFERN and WISPERN base. ● The short-term goal of this plan is to continue the build out of mutual aid channels throughout the State. 	Coordination Group	base/Control Stations - TBD at next SCIP Imp Workshop	
(ST 2.1) Expand Access to Mutual Aid Channels	Support replacement of wideband mobile and portable radios that are not software re-programmable to Very High Frequency (VHF) trunking compatible equipment. VHF radios should include 24 mutual aid channels.	Office of Justice Assistance	APR 2011	In Progress
(ST 1.5) Conventional MARC Repeater Coverage	Eliminate frequency usage conflicts on statewide mutual aid channels by encouraging agencies that are currently using one of the mutual aid frequencies for local usage to move their operation to another frequency	Office of Justice Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency Coordination Group	SEP 2011	In Progress - Complete as possible awaiting licensed agencies to consider changes
(ST 1.6) Conventional MARC Repeater	● Develop and	Office of Justice	See NECP	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
Coverage State-owned NECP Milestone	implement a method to incorporate the National Frequency Naming Protocol in Wisconsin <ul style="list-style-type: none"> ● Program nationwide interoperability channels into all existing emergency responder radios ● Consider Plans tied to narrow banding activities. 	Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency Coordination Group	Initiative for SOP and Technology	
(ST 2.2) Expand Access to Mutual Aid Channels	Utilize CASM tool to identify gaps in interoperability and radios that need replacement	Office of Justice Assistance, the SWIC (Mgr.), IC assisting the: Regional SCIP Implementation Group	<ul style="list-style-type: none"> ● MAR 2011 complete 33% of Counties ● MAR 2011 complete 33% of Counties ● MAR 2011 complete 33% of Counties 	In Progress
(ST 5.1) Maintain State Adopted Equipment Functional Specifications	Create functional specifications for interoperable data communications <ul style="list-style-type: none"> ● Focus toward national 700MHz broadband public safety system ● Align with national standards ● Align encryption SOP protocols statewide 	Office of Justice Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency Coordination Group	TBD at next SCIP Imp Workshop	Not Started

Training and Exercises

Overview of the diversity, frequency, and inter-agency coordination of training and exercises:

Wisconsin has an established method for offering and requiring interoperability training and exercises, as well as any certifications that will be needed. The Office of Justice Assistance oversees this responsibility and issues funding opportunities. OJA is Wisconsin's DHS State Administering Agency (SAA) and is also tasked with supporting the IC. Each OJA equipment grant announcement advocates for cross-disciplinary training effort and is monitored internally

by a single, cross-discipline, program analyst. The SAA also administers exercise funding and works closely with Wisconsin Emergency Management who coordinates preparedness exercises and NIMS certification training. To ensure quality training, Wisconsin uses a combination of ICS certified instructors and staff at Wisconsin Emergency Management. Local agencies have the authority to enhance minimum training requirements to higher levels as they determine.

A number of training and exercises exist. A combination of all instructional methods have been employed; based upon local agency preferences. This is a flexibility that local communities prefer.

Our strategy is that *all* exercises should include interoperable communications objectives.

Exercises testing interoperable communications systems, plans and operational procedures are a key component of the State All-hazard Exercise Program. In 2006, local and state agencies conducted 91 exercises that included 4,300 participants. Roughly one-third of all exercises included tested interoperable communications as a critical task. Of these exercises, only 41% reported that the task was completed successfully, indicating that communications interoperability continues to be an area that needs significant improvement. Testing interoperable communications among multiple jurisdictions has become one of the main focus areas for the state's exercise program in 2007. The largest has been a sixteen-county exercise designed to test the MARC repeater and RoIP patching network deployed by the West Central Interoperability Alliance (WCIA) using Homeland Security funding in 2005. For 2008, the statewide exercise program will promote exercises that test mutual aid repeater capabilities implemented in 2006 and 2007.

Training and Exercises Initiatives

The following table should outline the training and exercises strategic initiatives, gaps, owners, and milestone dates [State] outlined in its SCIP to improve interoperable communications.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
NECP Initiatives				
<i>Incorporate the use of existing nationwide interoperability channels into training and exercises.</i>	Channels are in the State Plans and now need implementation.	Office of Justice Assistance & Statewide Interoperability Manager/Planner in coordination with: ● Wisconsin	TBD at next SCIP Imp Workshop	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
		Emergency Management <ul style="list-style-type: none"> ● Regional SCIP Implementation Group ● State Agency SCIP 		
<i>Complete disaster communications training and exercises.</i>	Interoperable Communications Objectives have been added to Training and Exercise Plans at WI Emergency Management and further implementation is warranted. HAM radio operations are recommended to be further exercised	Office of Justice Assistance & Statewide Interoperability Manager/Planner in coordination with: <ul style="list-style-type: none"> ● Wisconsin Emergency Management ● Regional SCIP Implementation Group ● State Agency SCIP 	<ul style="list-style-type: none"> ● TBD at next SCIP Imp Workshop ● Regional SCIP Implementation Group to add as agenda item (MAR 2011), defining a plan of action, and implementation (APR 2012) 	In Progress
Additional State Initiatives (numbers in parentheses represent goals in SCIP)				
(NEW) For Mutual Aid and WISCOM, establish interoperable curriculum	For Mutual Aid and WISCOM, establish detailed interoperable curriculum <ul style="list-style-type: none"> ● Train the Trainer ● Executive – County Board ● Agency Management ● Public Safety Answering Points (PSAP) ● End user – Fire/Law Enforcement/Emergency Medical Services (EMS) ● Communications Unit Leader/Communications Technician 	Office of Justice Assistance, the SWIC (Mgr.), IC assisted by: <ul style="list-style-type: none"> ● Mutual Aid Frequency Coordination Group ● Statewide System Management Group ● State Agency SCIP Implementation Group ● Statewide SCIP Implementation Group 	TBD at next SCIP Imp Workshop	Not Started
(ST 1.3) Conventional MARC Repeater Coverage	Train on the proper use of these channels	Office of Justice Assistance &	TBD at next SCIP Imp	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
	<ul style="list-style-type: none"> Education needs to occur possibly through the Regional Interoperability Council Coordinator 	Statewide Interoperability Manager/Planner in coordination with: <ul style="list-style-type: none"> Wisconsin Emergency Management Regional SCIP Implementation Group State Agency SCIP 	Workshop	
(NEW) Fund and perform border county communications exercises, multi-State (optional)	Some border county communications exercises, multi-State (optional) exercises have occurred - Further implementation is needed.	Office of Justice Assistance & Statewide Interoperability Manager/Planner in coordination with: <ul style="list-style-type: none"> Wisconsin Emergency Management Regional SCIP Implementation Group State Agency SCIP 	TBD at next SCIP Imp Workshop	In Progress
(NEW) Incorporate the interoperable training and exercise into the Plan of Work	Incorporate further detail of interoperable training and exercise into the Plan of Work	Office of Justice Assistance & Statewide Interoperability Manager/Planner in coordination with: Wisconsin Emergency Management	Further develop new detailed plan language each year: Jan 2011 Jan 2012	In Progress
(NEW) Implement COML Training Statewide	COML Training has occurred along with exercises to gain credentialed status of COMLs. Too few	Office of Justice Assistance & Statewide Interoperability Manager/Planner	TBD at next SCIP Imp Workshop	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
	COMLs exist to support statewide needs.			

Usage

Overview of the testing of equipment and promotion of interoperability solutions:

Wisconsin has taken steps and established policies to encourage emergency responders to adopt and utilize interoperable technologies, SOPs, training, and exercises. The Wisconsin Office of Justice Assistance's funding opportunities are all consistent with fostering local growth in the technologies and training in the state communications interoperability plan. These procedures are listed in the SCIP, draft SOPs, TICPs, and the accompanying Functional Specifications document prepares the path for detailing future training needs, and usage concepts for the proposed statewide system under development.

Interoperability is promoted daily at the local, regional, tribal, and state level. Non-government resources are involved as applicable. The IC is assisted by the Interoperability Project Manager and Planner through visitations and participation in public safety professional organization meetings and conferences.

Interoperability should be considered for all incidents and events at the local, regional, tribal, and state levels. Wisconsin is not able to mandate after-action reporting of all incidents employing interoperability. Under limited circumstances and when administrative rules or laws apply information is reviewed for lessons learned. There is an overarching premise that advocates for cooperation among public safety disciplines, and sharing of lessons learned. Our outreach, homeland security program financial incentives, and training curriculums promote usage in both pre-planned and unanticipated incidents. Tabletop exercises are a proven tool for stimulating interest and usage. History of this method has shown us that use of interoperability systems and procedures is growing.

Interoperable communications capabilities are often used for localized and regional emergency incidents. Wisconsin emergency plans provide procedures for escalation and for obtaining outside support assistance. WEM emergency plans have this incorporated into their all hazards planning.

Usage Initiatives

The following table should outline the usage strategic initiatives, gaps, owners, and milestone dates Wisconsin outlined in its SCIP to improve interoperable communications.

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
(New) Conduct outreach to inform the public safety community	Use regional councils for a very aggressive outreach campaign to improve understanding of what WISCOM is, and how local assets can be incorporated	Office of Justice Assistance & Statewide Interoperability Manager/Planner in coordination with: <ul style="list-style-type: none"> • Regional SCIP Implementation Group • State Agency SCIP 	TBD at next SCIP Imp Workshop	In Progress
(New) Use interstate interoperability connections to other P25 systems	Interstate interoperability connections to other P25 systems <ul style="list-style-type: none"> • Adjacent States • In-State (counties) • Federal (IWIN) • Amateur Radio (DSTAR) 	Office of Justice Assistance, the SWIC (Mgr.), IC and Statewide System Management Group	On-going	In Progress
(New) Implement outreach coordinators to drive inclusion activities by under-representative entities	Proactive outreach coordinators to drive inclusion activities by under-representative entities <ul style="list-style-type: none"> • Fund one outreach coordinator in each region to work with smaller law enforcement, fire and EMS entities in applying for OJA, Assistance to Firefighters Grants (AFG), and other grant programs 	Office of Justice Assistance, the SWIC (Mgr.) and IC	TBD at next SCIP Imp Workshop	Not Started
(New) Foster usage of MARC repeater	Fund vote receiving or multi-repeater deployment in large counties to maximize portable coverage	Office of Justice Assistance, the SWIC (Mgr.) and IC	JUN 2011	Not Started
(New) Foster usage through upgrade	Fund the upgrade of	Office of Justice	JUN 2013	In Progress

Initiative (Name / Purpose)	Gap (Brief Description)	Owner (Agency, Department, and/or POC)	Milestone Date (Month/Year)	Status (Complete, In Progress, Not Started)
trunking capabilities	existing or otherwise not eligible radios to be trunking enabled to be used on WISCOM	Assistance, the SWIC (Mgr.) and IC		
(New) Identify a crosswalk for levels of WISCOM usage	Develop a crosswalk based on the current infrastructures with a roadmap for each type of current infrastructure to move to using WISCOM in various ways for trunked to trunked and WISCOM to conventional (interoperability patches/daily use)	Office of Justice Assistance, the SWIC (Mgr.), IC and Statewide System Management Group	DEC 2011	Not Started
(New) Develop usage matrix for mutual aid channels, integrated with NIMS structure	Develop a Pre-planned ICS Form 205 Incorporate statewide digital radio system for amateur operators that would work as companion system with WISCOM (DSTAR).	Office of Justice Assistance, the SWIC (Mgr.), IC and Mutual Aid Frequency Coordination Group	JUN 2011	In Progress

National Emergency Communications Plan Goals

The National Emergency Communications Plan (NECP) established a national vision for the future state of emergency communications. The desired future state is that emergency responders can communicate as needed, on demand, and as authorized at all levels of government across all disciplines. To measure progress towards this vision, three strategic goals were established:

Goal 1—By 2010, 90 percent of all high-risk urban areas designated with the Urban Area Security Initiative (UASI)³ are able to demonstrate response-level emergency communications⁴ within one hour for routine events involving multiple jurisdictions and agencies.

Goal 2—By 2011, 75 percent of non-UASI jurisdictions are able to demonstrate response-level emergency communications within one hour for routine events involving multiple jurisdictions and agencies.

Goal 3—By 2013, 75 percent of all jurisdictions are able to demonstrate response level emergency communications within three hours, in the event of a significant incident as outlines in national planning scenarios.

As part of the Goal 1 implementation process, OEC required UASIs to demonstrate response-level emergency communications during a planned event. Additionally, as part of the State's SCIP Implementation Report update in 2010, OEC is requiring information on UASIs' current capabilities. The capability questions are presented in Part II. UASIs must complete and submit responses on the capability questions to the SWIC or SCIP POC. The data generated from these questions will assist OEC in its analysis of Goal 1 performance and in identifying national trends in urban area communications. Similarly, to prepare for Goal 2 implementation in 2011, States are being asked to develop a methodology for collecting capability and performance data Statewide (please see Part III).

³ As identified in FY08 Homeland Security Grant Program

⁴ Response-level emergency communication refers to the capacity of individuals with primary operational leadership responsibility to manage resources and make timely decisions during an incident involving multiple agencies, without technical or procedural communications impediments.

Part 2 - UASI Communications Interoperability Capabilities Assessment Grid

The “Capabilities Assessment Grid” is to be completed by the designated UASI and submitted to the SWIC or SCIP POC. States that do not have UASIs do not need to complete this section.

For each lane of the Interoperability Continuum (Governance, Standard Operating Procedures [SOPs], Technology, Training and Exercises, and Usage), please select the one row that best describes the assessed area by checking the appropriate box. While multiple descriptions may apply, UASIs should identify the one row that most closely describes their highest level of capability achieved. The below capabilities assessment grid is to be completed by each UASI within the State.

Lane	Question	Answer	
		UASI 1	UASI 2
Question 1: (Governance)	Urban area decision-making groups are informal, and do not yet have a strategic plan in place to guide collective communications interoperability goals and funding.	<input type="checkbox"/>	<input type="checkbox"/>
	Some <i>formal</i> agreements exist and <i>informal</i> agreements are in practice among members of an Urban Area decision making group; Urban Area strategic and budget planning processes are beginning to be put in place.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Formal agreements outline the roles and responsibilities of an Urban Area decision making group, which has an agreed upon strategic plan that addresses sustainable funding for collective, regional interoperable communications needs.	<input type="checkbox"/>	<input type="checkbox"/>
	Urban Area decision making bodies proactively look to expand membership to ensure representation from broad public support disciplines and other levels of government, while updating their agreements and strategic plan on a regular basis.	<input type="checkbox"/>	<input type="checkbox"/>
Question 2: (SOPs)	Urban Area interoperable communications SOPs are not developed or have not been formalized and disseminated.	<input type="checkbox"/>	<input type="checkbox"/>
	Some interoperable communications SOPs exist within the urban areas and steps have been taken to institute these interoperability procedures among some agencies.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Interoperable communications SOPs are formalized and in use by all agencies within the Urban Area. Despite minor issues, SOPs are successfully used during responses and/or exercise(s).	<input type="checkbox"/>	<input type="checkbox"/>
	Interoperable communications SOPs within the Urban Area are formalized and regularly reviewed. Additionally, National Incident Management System (NIMS) procedures are well established among all agencies and disciplines. All needed procedures are effectively utilized during responses and/or exercise(s).	<input type="checkbox"/>	<input type="checkbox"/>

Lane	Question	Answer	
		UASI 1	UASI 2
Questions 3: (Technology)	Interoperability within the urban area is primarily achieved through the use of gateways (mobile/fixed gateway, console patch) or use of a radio cache.	<input type="checkbox"/>	<input type="checkbox"/>
	Interoperability within the Urban Area is primarily achieved through the use of shared channels or talkgroups.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Interoperability within the Urban Area is primarily achieved through the use of a proprietary shared system.	<input type="checkbox"/>	<input type="checkbox"/>
	Interoperability within the Urban Area is primarily achieved through the use of a standards-based shared system (e.g., Project 25).	<input type="checkbox"/>	<input type="checkbox"/>
Questions 4: (Technology)	What frequency band(s) do public safety agencies within the urban area currently utilize? (e.g., VHF-Low Band, VHF-High Band, UHF 450-470, UHF "T-Band" 470-512, UHF 700, UHF 800, UHF 700/800)	<ul style="list-style-type: none"> ●VHF-High Band ●UHF 450-470 ●UHF 800 MHz ●UHF 700/800 MHz 	
Question 5: (Training & Exercise)	Urban Area public safety agencies participate in communications interoperability workshops, but no formal training or exercises are focused on emergency communications.	<input type="checkbox"/>	<input type="checkbox"/>
	Some public safety agencies within the Urban Area hold communications interoperability training on equipment and conduct exercises, although not on a regular cycle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Public safety agencies within the Urban Area participate in equipment and SOP training for communications interoperability and hold exercises on a regular schedule.	<input type="checkbox"/>	<input type="checkbox"/>
	Urban Area public safety agencies regularly conduct training and exercises with a communications interoperability curriculum addressing equipment and SOPs that is modified as needed to address the changing operational environment.	<input type="checkbox"/>	<input type="checkbox"/>
Questions 6: (Usage)	First responders in the Urban Area seldom use interoperability solutions unless advanced planning is possible (e.g., special event).	<input type="checkbox"/>	<input type="checkbox"/>
	First responders in the Urban Area use interoperability solutions regularly for emergency events, and in a limited fashion for day-to-day communications.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	First responders in the Urban Area use interoperability solutions regularly and easily for all day-to-day, task force, and mutual aid events.	<input type="checkbox"/>	<input type="checkbox"/>

	Regular use of interoperability solutions for all day-to-day and out-of-the-ordinary events in the Urban Area on demand, in real time, when needed, as authorized.	<input type="checkbox"/>	<input type="checkbox"/>
Questions 7: (Usage)	What percentage of the time do you use the following communications technologies during emergency responses?		
	Cell Service	90 %	___%
	Sat phone	0 %	___%
	Broadband Mobile Data	80 %	___%

Part 3. NECP Goal 2 Methodology

The below methodology for Goal 2 is to be completed by the SWIC or SCIP POC.

Goal 2 Methodology

In the section below, describe the methodology that you will use in 2011 for demonstrating and reporting Goal 2 of the NECP for all county or county equivalents in your State. Methodologies should address the following:

- *The incorporation of all counties or county equivalents*
- *Proposed approach to collect capability data (including from individual UASI counties)*
- *Proposed approach to collect performance data (including from individual UASI counties)⁵*
- *County-level input prior to submission of Goal 2 data to OEC*
- *Completion of data collection by September 30, 2011*

The Wisconsin Interoperability Initiative will work with 72 counties within Wisconsin to do our best to achieve 100% voluntary reporting of capability and performance data.

Through the Statewide SCIP Implementation Group, a workgroup chartered by the Interoperability Council, the state has been divided into 6 regions each supported by a local leadership council and a part time regional interoperability coordinator (RIC). This coordinator position is funded through IECGP grant funds. The SWIC and these RICs are already engaged in outreach to develop support and willing participation in the 1011 data collection.

The intent is for each RIC to confer with a county point of contact (POC), and collaboratively walk through and assist the county POC with the completion of the capability report. RICs have between 8 and 14 counties each. Monthly contacts between the RICs by the state Interoperability Initiative staff will allow monitoring of report completion.

The intent is for each county to submit performance data consistent with the OEC guidance and methodology. Our procedures will ask for the submitted data to be shared with the SWIC at the time of submission. This will enable the SWIC to monitor reporting progress.

It is our intent to have:

- 33 % of the data submitted by April 1, 2011
- 66 % of the data submitted by July 1, 2011
- 99% of the data submitted by September 1, 2011
- 100% of the data submitted by September 30, 2011

⁵ Counties with significant participation in NECP Goal 1 demonstrations can use the results for their Goal 2 performance data