

Michigan Communications Field Operations Guide (MIFOG)



Michigan Communications Field Operations Guide

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Michigan Communications Field Operations Guide

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Introduction

The most current version of this guide is always available at: michigan.gov/comuwg

The Michigan Communications Field Operations Guide (MIFOG) is a collection of technical reference material to aid Communications Unit personnel in establishing solutions to support communications during emergency incidents and planned events. The MIFOG includes information from the National Interoperability Field Operations Guide (NIFOG), material from each of the seven Michigan Regional Tactical Interoperable Communications Plans (TICP), and data from other Michigan communications documents; formatted as a pocket-sized guide.

The MIFOG contains local, state, and national interoperability channels. These channels should be programmed into all public safety radios in the appropriate frequency band. If geographic restrictions on some channels preclude their use within Michigan, they may offer an interoperability option when responding out of State where the restrictions do not apply.

DISCLAIMER: The MIFOG is a reference guide only, compiled from a multitude of public safety resources, the Communications Unit Workgroup (COMU WG) and MPSCS. Its intended use is to guide interoperable communications across the state. We welcome contributions, corrections, or comments. Please direct them to: COMU WG at DTMB-MICOMU@michigan.gov

Contact information for this guide:

Communications Unit Working Group Website:
www.michigan.gov/comuwg

Points of Contact

Michigan's Public Safety Communications System (MPSCS)

Network Communication Center (NCC)

Phone: 517-333-5050

Toll-Free: 888-554-4622

Fax: 517-333-5015

Email: mpscs-ncc@michigan.gov

The NCC is responsible for operational readiness and programming of MPSCS. Available 24 hours per day, 365 days per year.

Michigan State Police Operations

Phone: 517-241-8000

Toll-Free: 800-525-5555 (within Michigan)

Toll Free: 877-616-4677 (within United States)

TDD: 517-241-8000

Fax: 517-241-6815

Michigan State Police Operations is the state designated authority for requesting state assistance. Available 24 hours per day, 365 days per year.

Michigan Intelligence Operations Center (MIOC)

Phone: 877-616-4677

Fax: 517-241-6815

Email: MIOC@michigan.gov

Communication Assets Survey and Mapping (CASM)

Email: MI-CASM-AM@michigan.gov

For assistance with using CASM, or for help with CASM account access, please email the Michigan CASM admin team at the email address above. Contact information for the current State of Michigan CASM Administrator and the CASM User Account Request Form can be found at the link below.

www.michigan.gov/comuwg

Key Contacts

Name: _____

Phone 1: _____

Phone 2: _____

Email: _____

Name: _____

Phone 1: _____

Phone 2: _____

Email: _____

Name: _____

Phone 1: _____

Phone 2: _____

Email: _____

Interoperable Communications Commonalities

1.1. Common Issues

1. Incident using radio channels in more than one band (VHF, UHF, and/or 700/800 MHz)
2. Incident using different radio bands via console or gateway patches
3. Unable to communicate critical information due to radio congestion
4. Unfamiliar with radio system(s) or assigned radio functionality
5. Instructions and assignments not clear
6. Have no or inadequate communication with your crew members or supervisor
7. Dispatch to dispatch channel patching
8. Inadequate number of tactical channels available or assigned
9. Multiple conversations on the same talk group or channel
10. Ensure that the radio system that you are using for interoperability completely supports the incident with good radio coverage
11. High level of background noise (i.e., wind, generators, power tools, fire pumps)
12. Emergency button activation – who is receiving the notification, who is authorized to clear
13. Multiple agencies performing radio programming at the incident
14. Organizations in the system do not use the same vocabulary
15. Mobile gateway devices being used in a strategic (wide-area) rather than tactical (local) environment
16. Multiple mobile gateways available at the incident
17. Responding agencies have not identified a single Communications Unit Leader for the incident
18. Working in the deep interior of a building, parking garage, or underground
19. Attempting to apply day-to-day operational communications practices to large scale incidents

1.2. Agency Responsibilities and Rights

Agencies will retain the following responsibilities and rights:

1. Agencies are responsible for complying with MOUs and Agreements developed through the State in coordination with their respective jurisdictions
2. Authorized representatives of agencies participating in this plan have the authority to request the use of equipment, including systems and mobile assets, in accordance with Standard Operating Procedures (SOPs)
3. Where applicable, agencies will be responsible for consistently maintaining testing and exercising connectivity to interoperable communications
4. Incident Commanders retain the right to decide how to utilize interoperable communications within established guidelines.

1.3. Prioritization and Shared Use of Regional Interoperability Assets

The Incident Commander, or designee, in conjunction and/or cooperation with their counterparts in other involved agencies, will have the authority to request the use of interoperable assets. Once Incident Command has been established, Command Staff or the Communications Unit Leader (when designated) direct the further coordination and delegation of the interoperable communications assets assigned to the event or incident in question.

When the same resources are requested for two or more incidents, resource assignments should be based on the priority levels in accordance with the National Incident Management System (NIMS).

In the event of multiple simultaneous incidents with the same priority, the resources should be allocated according to NIMS.

In response to events or incidents which cross over jurisdictional boundaries, there potentially could be competing demands and priorities for interoperable communications assets. Agencies should activate needed interoperable communication assets to respond with effective efficiency, and to minimize any negative impact on surrounding agencies or jurisdictions. Specifically, interoperable communications should be established with the following techniques, listed in increasing order of complexity.

1. Utilize face-to-face communications wherever appropriate. For example, the co-location of all Command and General Staff at the Incident Command Post (ICP) provides the best direct communications and reduces the demand on interoperability resources
2. Employ local communications assets until such time as either those assets become taxed or inadequate based on the nature and or scope of the incident
3. If response agencies are users of a shared system, utilize that shared system to establish interoperable communications
4. If response agencies operate on disparate systems, utilize shared or mutual aid channels to establish interoperable communications
5. If response agencies do not share systems or channels, utilize a gateway solution to establish interoperable communications
6. Where interoperable communications cannot otherwise be established between response agencies, utilize swap or cache radios to establish operable communications for responders
7. If no other method of interoperability can be established, relay communications through staff members.

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6. Where interoperable communications cannot otherwise be established between response agencies, utilize swap or cache radios to establish operable communications for responders
7. If no other method of interoperability can be established, relay communications through staff members.

When the same resources are requested for two or more incidents, resource assignments should be based on the priority levels listed below:

1. Disasters, large scale incidents, or extreme emergencies requiring mutual aid or interagency communications
2. Incidents where imminent danger exists to life or property
3. Incidents requiring the response of multiple agencies
4. Preplanned events requiring mutual aid or interagency communications
5. Incidents involving a single agency where supplemental communications are needed for agency use
6. Drills, tests, and exercises

In the event of multiple simultaneous incidents within the same priority level, the Incident

Commander or Unified Command (if formed) shall have allocation authority and shall allocate resources with the following priorities in mind:

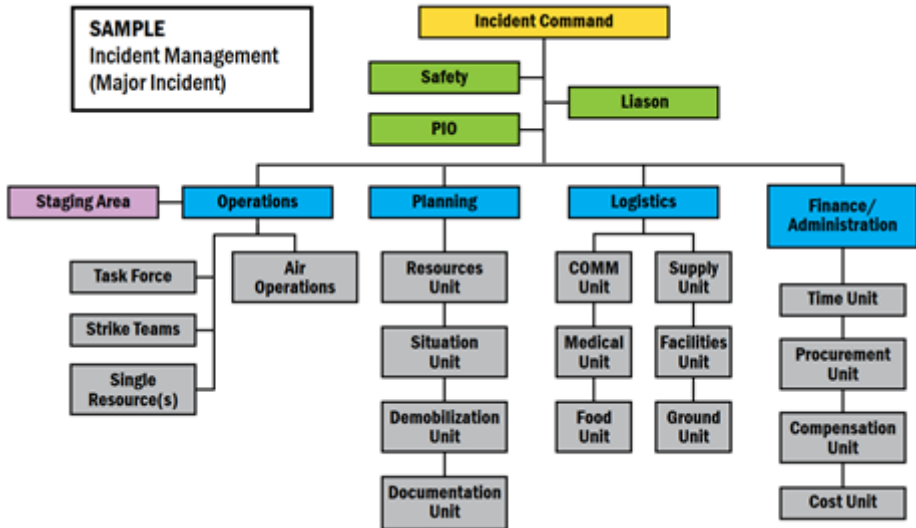
1. Incidents with the greatest level of exigency (e.g., greater threat to life or property, more immediate need, etc.) have priority over less exigent incidents
2. Agencies with single/limited interoperable options have priority use of those options over agencies with multiple interoperable options

When at all possible, agencies already using an interoperable asset during an event should not be redirected to another resource.

1.4. Incident Command System (ICS)

ICS is a key feature of NIMS. It is a widely applicable management system designed to enable effective, efficient incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating with a common organizational structure. ICS is used to organize on-scene operations for a broad spectrum of incidents/events and guides the process for planning, building, and adapting that structure. ICS is based on the command principles of unity of command, chain of command, span of control, delegation of authority and division of labor. The five major functional areas of ICS are command, operations, planning, logistics and finance administration.

The Incident Management – Major Incident flow can be found on the following page:



Incident Management – Major Incident Flow

1.5. COMU Position Descriptions

At an Incident/Event:

The Communications Unit is within the Service Branch of the Logistics Section of the ICS. Listed below are the Communication Unit positions titles and responsibilities.

Communication Unit Leader (COML) manages the technical and operational aspects of the Communications Function during an incident or event. Develops National Incident Management System (NIMS) Incident Command System Form 205 Incident Radio Communication Plan and supervises the Communication Unit.

Incident Communications Technician (COMT) deploys advanced equipment and keeps it operational throughout the incident/event.

Technical Specialist (THSP) allows for the incorporation of personnel who may not be formally certified in any specific NIMS/ICS position. THSPs may include Local Agency Radio Technicians (as opposed to the COMT), Telephone Specialists, Gateway Specialists, Data/IT Specialists, and/ or Cache Radio Specialists.

Auxiliary Communicator (AUXC) provide volunteer communications support for public safety, emergency management, and other government/non-government agencies. They can provide emergency, backup, or supplemental communications support during emergencies, planned events, or training exercises.

Incident Communications Center Manager (INCM) supervises the operational aspects of the Incident Communications Center (ICC) (Mobile Unit and/or Fixed Facility). During an incident, the ICC is designed to absorb incident traffic, in order to separate that traffic from the day-to-day

activities of the dispatch center. The ICC is typically located at the Incident Command Post (ICP) in a fixed site, tent, trailer, or mobile communications unit.

Radio Operator (RADO) staffs a radio at the ICC and is responsible for documenting incoming radio and telephone messages. Incident Dispatchers or Tactical Dispatchers are used as RADOs.

At the Dispatch Center or Emergency Operations Center (EOC):

Communications Coordinator (COMC) the COML will work with the COMC to coordinate communications with other dispatch centers and the incident communication plan. Locally, the jurisdictional dispatch center supervisor or dispatcher will act as the Communications Coordinator. Coordinators may also be located at the county, region, state and/or federal level.

1.6. ICS Personnel Common Responsibilities

The following is a checklist applicable to all ICS personnel:

1. Receive assignment from your agency, including:
 - a. Job assignment, e.g., Strike Team designation, overhead position, etc.
 - b. Resource order number and request number
 - c. Reporting location
 - d. Reporting time
 - e. Travel instructions
 - f. Any special communications instructions, e.g., travel channel
2. Upon arrival at the incident, check in at designated Check-in location. Check-in may be found at:
 - a. Incident Command Post
 - b. Base or Camps
 - c. Staging Areas
 - d. Heli-bases
 - e. If you are instructed to report directly to a line assignment, check in with the

Division/ Group Supervisor

3. Receive briefing from immediate supervisor
4. Acquire work materials.
5. Conduct all tasks in a manner that ensures safety and welfare of you and your co-workers.
6. Organize and brief subordinates.
7. Know the assigned channel(s) for your area of responsibility and ensure that communication equipment is working properly.
8. Use clear text and ICS terminology (no codes) in all radio communications. All radio communications to the Incident Communications Center will be addressed: "(Incident Name) Communications", e.g., "Webb Communications".

1.7. Incident Commander Position Checklist

The Incident Commander's responsibility is the overall management of the incident. On most incidents, a single Incident Commander carries out the command activity, however, Unified Command may be appropriate. The Incident Commander is selected by qualifications and experience.

The Incident Commander may have a Deputy who may be from the same agency or from an assisting agency. Deputies may also be used at section and branch levels of the ICS organization. Deputies must have the same qualifications as the person for whom they work, as they must be ready to take over that position at any time.

1. Review common responsibilities (Section 1.6).
2. Assess the situation and/or obtain a briefing from the prior Incident Commander.
3. Determine Incident objectives and strategy.
4. Establish the immediate priorities.
5. Establish an Incident Command Post.
6. Consider the need for Unified Command.

7. Establish an appropriate organization.
8. Ensure planning meetings are scheduled as required.
9. Approve and authorize the implementation of an Incident Action Plan.
10. Ensure that adequate safety and personnel accountability measures are in place.
11. Coordinate activity for all Command and General Staff.
12. Coordinate with key people and officials.
13. Approve request for additional resources or for the release of resources.
14. Keep agency administrators informed of incident status.
15. Approve the use of trainees, volunteers, and auxiliary personnel.
16. Authorize the release of information to the news media.
17. Ensure Incident Status Summary (ICS Form 209) is completed and forwarded to appropriate higher authority.
18. Order the demobilization of the incident when appropriate.
19. Maintain Unit/Activity Log (ICS Form 214).

1.8. Communications Unit Leader (COML) Position Checklist

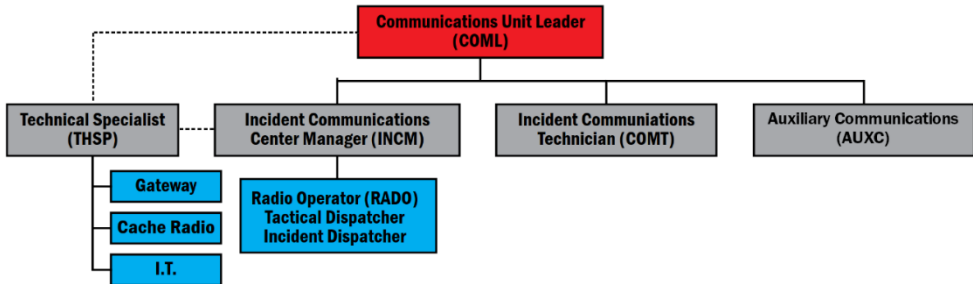
TASK

1. Obtain briefing from the Logistics Section Chief or Service Branch Director.
2. Organize and staff unit as appropriate
 - a. Assign Communications Center Manager and Lead Incident Dispatcher.
 - b. Assign Message Center Manager and ensure adequate staff is assigned to answer phones and attend to fax machines.
3. Assess communications systems/channels in use; advise on communications capabilities/ limitations.
4. Develop and implement effective communications procedures (flow) internal and external to the incident/Incident Command Post.
5. Assess Incident Command Post phone load and request additional lines as needed.
6. Obtain copy of Communications Resource Availability Worksheet (ICS Form 217A) which provides RF information for the applicable area. If ICS Form 217A has not been

- completed or is unavailable, it should be prepared.
7. Prepare and implement Incident Communications Plan (ICS Form 205):
 - a. Obtain current organizational chart.
 - b. Determine most hazardous tactical activity; ensure adequate communications.
 - c. Make communications assignments to all other Operations elements, including volunteer, contract, or mutual aid.
 - d. Determine command communications needs.
 - e. Establish and post any specific procedures for use of Incident Command Post communications equipment.
 8. Include cellular phones and pagers in Incident Communications Plan (ICS Form 205T) if appropriate:
 - a. Determine specific organizational elements to be assigned to telephones.
 - b. Identify all facilities/locations with which communications must be established (shelters, press area, liaison area, agency facilities, other Governmental type entities' Emergency Operations Center [EOC], etc.), and identify and document phone numbers.
 - c. Determine which phones and what numbers should be used by specific personnel and their purpose. Assign specific telephone numbers for incoming calls and report these numbers to staff and off-site parties such as other local jurisdictions, state, and federal agencies.
 - d. Do not publicize OUTGOING call lines.
 9. Activate, serve as contact point, and supervise the integration of volunteer radio organizations into the communications system.
 10. Ensure radio and telephone logs are available and being used.
 11. Determine need and research availability of additional nets and systems.
 - a. Order through Supply Unit after approval by Section Chief or appropriate official.
 - b. Federal systems.
 - c. Additional radios and other communications devices, including repeaters, radio-telephone interconnects and satellite down-link capabilities may be

available through VDEM, FEMA or the National Interagency Fire Center (NIFC).

12. Document malfunctioning communications equipment, facilitate repair
13. Establish and maintain communications equipment accountability system.
14. As required, provide technical information regarding:
 - a. Adequacy of communications system in use.
 - b. Geographic limitations of communications equipment
 - c. Equipment capabilities
 - d. Amount and types of equipment available
 - e. Anticipated problems in the use of communications equipment
15. Estimate Unit needs for expected operations.
16. As required, request relief personnel.
17. Provide briefing to relief personnel on current activities and watch out or abnormal situations.
18. Document all activity on Unit/Activity Log (ICS Form 214).



Communications Unit Example

Interoperability Assets

Refer to the Michigan Standard Operating Guidelines for Mutual Aid Communications and the Regional/Local Tactical Interoperable Communications Plan (TICP) for policies and procedures on asset usage.

1.9. Requests for Communications Assets

The intent of the process to request communication assets is to make the process as efficient and responsive as possible and based on the premise that the Incident Command System has been established to address a public safety event.

1. The Incident Commander (IC) will designate a Communications Unit Leader (COML) who will prepare an Incident Radio Communications Plan (ICS Form 205). *
2. The COML will contact a peer COML from an adjacent community to request communication assets, if needed.
3. The requesting COML and the supporting COML will ensure that the responding communication asset, the requesting jurisdiction dispatch center, and the on-scene commander all have a common mutual aid channel.
4. The responding asset will coordinate with Incident Command for staging of the asset or determine a reporting location.
5. The responding communications asset will establish communications with the EOC or dispatch center once on scene.
6. The ICS 205 will be provided to the communications asset.
7. If necessary, the IC will designate law enforcement personnel to provide security at the site of the communications asset.
8. The communications asset will prepare to activate interoperable communications necessary to support on-scene incident personnel.

9. The communications asset should be prepared to remain on scene, staffed by trained communications personnel, until released by the IC or designee.

***If no COML is designated, these duties fall to the IC.**

1.10. General Rules of Use

1. **National Incident Management System** – implement an Incident Based Command System (ICS) compliant with the National Incident Management System (NIMS) when using any regional interoperability resource.
2. **National Response Framework** – use the appropriate ICS forms needed to document a given incident, in accordance with the National Response Framework (NRF).
3. **Plain Language** – avoid using radio codes, acronyms, and abbreviations as they may cause confusion between agencies. Ensure that all verbal requests for assistance or backup specify the reason for the request.
4. **Unit Identification** – announce your home agency prior to announcing your unit identifier during interoperate communications situations (i.e., “Command, this is Troy Fire Department Unit....”)
5. **Called Party First** – It is recommended that when attempting to contact another unit by radio, the unit initiating the contact states the call sign of the unit being called followed by the call sign of the calling unit – “Unit 6 from Unit 2”

Applies to Gateways:

1. **Encryption** – all encrypted radio users must operate in a “clear” mode when a gateway is used unless otherwise arranged in advance. Never assume encryption carries across the gateway.
2. **Patching** – gateway devices should not patch frequencies assign by the FCC to local and state government to military frequencies.
3. **Monitoring** – the Incident Commander or designee will ensure that each

activated patch is monitored consistently while in use.

4. **Technical Support** – qualified gateway technical specialists (THSPs) or communications technicians (COMTs) must be available for on-scene support during the deployment of mobile gateways.

Applies to Radio Caches:

1. **Charging** – cache radios shall be deployed with charged batteries, limited use batteries, or “AA” battery clamshell adapters. Portable radio caches shall include extra batteries and battery chargers to support extended deployments.
2. **Radio Identification** – each radio in a radio cache will have a unique identification number (e.g., serial number, owner applied number, etc.) for inventory tracking. The cache shall provide a method of tracking radios issued for accountability.
3. **Technical Support** – qualified radio cache THSPs or COMTs must be available for on-scene support during the deployment if the requesting agency cannot act in this capacity.
4. **Equipment Return** – the requesting agency is responsible for the return of any cache radios/MCU’s/equipment in the condition that they were issued and received. Responsibility for lost or damaged equipment lie with the appropriate agency as dictated by existing Memoranda of Agreement (MOAs)

Applies to Mobile Command Units/Deployable Infrastructure:

1. **Equipment Return** – the requesting agency is responsible for the return or any MCU in the condition that it was received and/or is dictated by existing Memoranda of Agreement.
2. **Resource Modifications** – the requesting agency is not allowed to change

anything in the MCU without written permission of the owning agency. Should a modification need to be made, (i.e., changing an electric end) the requesting agency will incur the costs of any modification or restoration.

3. **Operational Expenses** – responsibility for operational expenses should be decided upon ahead of time or within an MOU.

1.11. Non-Federal National Interoperability Channels

The convention calls for frequency lists to show four digits after the decimal place, followed by either an “N” or a “W”, depending on whether the frequency is narrow or wide band. Mode refers to either “A” or “D”, indicating analog or digital (e.g., Project 25) or “M”, indicating mixed mode. All channels are shown as if programmed in a control station, mobile, or portable radio. Repeater and base stations must be programmed with the RX and TX reversed. Unless stated otherwise, all frequencies are MHz except CTCSS tones, which are in Hz. All national interoperability channels above 150 MHz are to be utilized in the narrow band configuration.

VHF Low Band

Discipline Specific Channels									
Channel Config	Channel	Eligible Users	Mobile RX Freq.	N/W	RX Tone /NAC	Mobile TX Freq.	N/W	TX Tone /NAC	Mode A/D/M
Duplex	LLAW1	Law Enforcement	39.4600	W	156.7	45.8600	W	156.7	A
Simplex	LLAW1D	Law Enforcement	39.4600	W	156.7	39.4600	W	156.7	A
Duplex	LFIRE2	Fire	39.4800	W	156.7	45.8800	W	156.7	A
Simplex	LFIRE2D	Fire	39.4800	W	156.7	39.4800	W	156.7	A
Duplex	LLAW3	Law Enforcement	45.8600	W	156.7	39.4600	W	156.7	A
Simplex	LLAW3D	Law Enforcement	45.8600	W	156.7	45.8600	W	156.7	A
Duplex	LFIRE4	Fire	45.8800	W	156.7	39.4800	W	156.7	A
Simplex	LFIRE4D	Fire	45.8800	W	156.7	45.8800	W	156.7	A

VHF High Band

Interoperable Tactical Channels

VCALL10 is a dedicated interoperability calling channel. VTAC channels are reserved for interagency communications and primarily incident-based operations. Analog narrowband is standard for VCALL and VTAC channels.

All fixed, mobile, and portable radios should be programmed to transmit using the 156.7 Hz CTCSS code. All mobile and portable radios should be programmed to receive using the 156.7 Hz CTCSS code and the radios should have the capability to operate in the carrier squelch mode by activating a user control function.

A Network Access Code (NAC) of \$293 should be used instead of the standard CTCSS codes in cases where digital operation is also permitted on the national interoperability channels in regional or statewide interoperability plans.

VTAC33-38 recommended for deployable tactical repeater user only (FCC Station Class FB2T).

VTAC 36-38 are preferred. VTAC 33-35 should be used only when necessary due to interference.

The VMED28 EMS mutual aid channel is utilized for ambulance to hospital communications. Each hospital is assigned a separate CTCSS code according to the Michigan MEDCOM Requirements.

Interoperable Tactical Channels

Channel Config	Channel	Eligible Users	Mobile RX Freq.	N/W	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/ D/ M	Notes
Simplex	VACALL10	Any Public Safety	155.7525	N	156.7	155.7525	156.7	A	Calling/Hailing
Simplex	VTAC11*	Any Public Safety	151.1375	N	156.7	151.1375	156.7	A	Tactical Simplex
Simplex	VTAC12*	Any Public Safety	154.4525	N	156.7	154.4525	156.7	A	Tactical Simplex
Simplex	VTAC13	Any Public Safety	158.7375	N	156.7	158.7375	156.7	A	Tactical Simplex
Simplex	VTAC14	Any Public Safety	159.4725	N	156.7	159.4725	156.7	A	Tactical Simplex
Duplex	VTAC33**	Any Public Safety	159.4725	N	136.5	151.1375	136.5	A	Tactical Repeater
Duplex	VTAC34**	Any Public Safety	158.7375	N	136.5	154.4525	136.5	A	Tactical Repeater
Duplex	VTAC35†	Any Public Safety	159.4725	N	136.5	158.7375	136.5	A	Tactical Repeater
Duplex	VTAC36**	Any Public Safety	151.1375	N	136.5	159.4725	136.5	A	Tactical Repeater
Duplex	VTAC37**	Any Public Safety	154.4525	N	136.5	158.7375	136.5	A	Tactical Repeater
Duplex	VTAC38‡	Any Public Safety	158.7375	N	136.5	159.4725	136.5	A	Tactical Repeater

*VTAC11-12, VTAC33-34, and VTAC36-37 may not be used in Puerto Rico or the USVI.

† VTAC33-38 recommended for deployable tactical repeater use only (FCC Station Class FB2T).

‡ VTAC36-38 are preferred; VTAC33-35 should be used only when necessary due to interference.

All channels on this page are NARROWBAND only. Limited to 3 watts ERP North of Line A or East of Line C.

VHF Public Safety Mutual Aid and Common Channels

Discipline Specific Channels									
Channel Config	Channel	Eligible Users	Mobile RX Freq.	N/ W	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/ D/ M	Notes
Simplex	VFIRE21	Fire Mutual Aid	154.2800	N	156.7	154.2800	156.7	A	Tactical
Simplex	VFIRE22	Fire Mutual Aid	154.2650	N	156.7	154.2650	156.7	A	Tactical
Simplex	VFIRE23	Fire Mutual Aid	154.2950	N	156.7	154.2950	156.7	A	Tactical
Simplex	VFIRE24	Fire Mutual Aid	154.2725	N	156.7	154.2725	156.7	A	Tactical
Simplex	VFIRE25	Fire Mutual Aid	154.2875	N	156.7	154.2875	156.7	A	Tactical
Simplex	VFIRE26	Fire Mutual Aid	154.3025	N	156.7	154.3025	156.7	A	Tactical
Simplex	VMED28	EMS Mutual Aid	155.3400	N	156.7	155.3400	156.7	A	Tactical
Simplex	VMED29	EMS Mutual Aid	155.3475	N	156.7	155.3475	156.7	A	Tactical
Simplex	VLAW31	LE Mutual Aid	155.4750	N	156.7	155.4750	156.7	A	Tactical
Simplex	VLAW32	LE Mutual Aid	155.4825	N	156.7	155.4825	156.7	A	Tactical
Simplex	VSAR16	SAR Common	155.1600	N	127.3	155.1600	127.3	A	Tactical

LICENSING REQUIRED. These are NOT nationwide interoperability channels - CTSS tones vary by jurisdiction. Rules for use of the channels are contained in 47 CFR 90.20 and NTIA Manual Section 4.3.11 & 7.3.6.

Except for VSAR16, the recommended CTCSS tones are 156.7 receive and transmit for all channels on this page for interoperability; local use may specify other tones.

UHF High Band - Interoperable Tactical Channels

Although not extensively used throughout Michigan, UHF MHz National Interoperability channels are recommended to be programmed in all public safety mobile and portable radios operating in the UHF band.

The use of these channels is covered by a blanket authorization per FCC 00-348, Third Memorandum Opinion and Order and Third Report and Order, WT Docket No. 96-86.

Default operation should be set to transmit and receive using CTCSS code 156.7 Mobile and portable radios shall be programmed to permit the operator to select carrier squelch receive.

Interoperable Tactical Channels							
Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	UCALL40	Any Public Safety	453.2125	156.7	458.2125	156.7	A
Simplex	UCALL40D	Any Public Safety	453.2125	156.7	453.2125	156.7	A
Duplex	UTAC41	Any Public Safety	453.4625	156.7	458.4625	156.7	A
Simplex	UTAC41D	Any Public Safety	453.4625	156.7	453.4625	156.7	A
Duplex	UTAC42	Any Public Safety	453.7125	156.7	458.7125	156.7	A
Simplex	UTAC42D	Any Public Safety	453.7125	156.7	453.7125	156.7	A
Duplex	UTAC43	Any Public Safety	453.8625	156.7	458.8625	156.7	A
Simplex	UTAC43D	Any Public Safety	453.8625	156.7	453.8625	156.7	A

CTCSS 156.7 Hz(5A) transmit and receive.

Interoperable Tactical Channels

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
All channels on this page are NARROWBAND only. Limited to 3 watts E R P North of Line A or East of Line C.							

700 MHz Band

700 MHz National Interoperability Channels are recommended for all public safety radios operating in the 700/800 MHz band that are capable of operating on the 700 MHz channels, VHF is preferred in limited non-800 MHz areas of Michigan and bordering states.

The Michigan Public Safety Frequency Advisory Committee has designated 32 of the 700 MHz interoperability channel as a minimum capability for Michigan. These channels are identified by *. 700 MHz interoperability channels are ALL to be programmed in P25 mode using a common NAC of \$293.

Before adopting 700 MHz channels, ensure your radios are 700 MHz capable and that subscriber radios have 700 MHz compatible antennas.

Channel names ending "D" are for direct unit to unit communications.

700 MHz Band Interoperable Tactical Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 ¶ 87 (10/24/2014).

TX NAC: \$293 (659 10). RX NAC \$F7E (3966₁₀).

Talk Group ID: \$00001 (1₁₀)

Manufacturer's ID: \$00 (0₁₀)

Message ID: \$00000000000000000000 (0₁₀)

Encryption:

- No encryption on calling channels

- Algorithm ID: \$80 (128₁₀)

Key ID: \$0000 (0₁₀)

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	7CALL50*	Calling Channel	769.24375	\$F7E	799.24375	\$293	D
Simplex	7CALL50D*	Calling Channel	769.24375	\$F7E	769.24375	\$293	D
Duplex	7TAC51	General Public Safety	769.14375	\$F7E	799.14375	\$293	D
Simplex	7TAC51D	General Public Safety	769.14375	\$F7E	769.14375	\$293	D
Duplex	7TAC52	General Public Safety	769.64375	\$F7E	799.64375	\$293	D
Simplex	7TAC52D	General Public Safety	769.64375	\$F7E	769.64375	\$293	D
Duplex	7TAC53	General Public Safety	770.14375	\$F7E	800.14375	\$293	D
Simplex	7TAC53D	General Public Safety	770.14375	\$F7E	770.14375	\$293	D
Duplex	7TAC54	General Public Safety	770.64375	\$F7E	800.64375	\$293	D
Simplex	7TAC54D	General Public Safety	770.64375	\$F7E	770.64375	\$293	D
Duplex	7TAC55	General Public Safety	769.74375	\$F7E	799.74375	\$293	D
Simplex	7TAC55D	General Public Safety	769.74375	\$F7E	769.74375	\$293	D

700 MHz Band Interoperable Tactical Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 ¶ 87 (10/24/2014).

TX NAC: \$293 (659 10). RX NAC \$F7E (3966₁₀).

Talk Group ID: \$00001 (1₁₀)

Manufacturer's ID: \$00 (0₁₀)

Message ID: \$00000000000000000000 (0₁₀)

Encryption:

- No encryption on calling channels

- Algorithm ID: \$80 (128₁₀)

Key ID: \$0000 (0₁₀)

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	7TAC56	General Public Safety	770.24375	\$F7E	800.24375	\$293	D
Simplex	7TAC56D	General Public Safety	770.24375	\$F7E	770.24375	\$293	D
Duplex	7GTAC57	Other Public Service	770.99375	\$F7E	800.99375	\$293	D
Simplex	7GTAC57D	Other Public Service	770.99375	\$F7E	770.99375	\$293	D
Duplex	7MOB59	Mobile Repeater	770.89375	\$F7E	800.89375	\$293	D
Simplex	7MOB59D	Mobile Repeater	770.89375	\$F7E	770.89375	\$293	D
Duplex	7LAW61	Law Enforcement	770.39375	\$F7E	800.39375	\$293	D
Simplex	7LAW61D	Law Enforcement	770.39375	\$F7E	770.39375	\$293	D
Duplex	7LAW62	Law Enforcement	770.49375	\$F7E	800.49375	\$293	D
Simplex	7LAW62D	Law Enforcement	770.49375	\$F7E	770.49375	\$293	D
Duplex	7FIRE63	Fire	769.89375	\$F7E	799.89375	\$293	D
Simplex	7FIRE63D	Fire	769.89375	\$F7E	769.89375	\$293	D

700 MHz Band Interoperable Tactical Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 ¶ 87 (10/24/2014).

TX NAC: \$293 (659 10). RX NAC \$F7E (3966₁₀).

Talk Group ID: \$00001 (1₁₀)

Manufacturer's ID: \$00 (0₁₀)

Message ID: \$00000000000000000000 (0₁₀)

Encryption:

- No encryption on calling channels

- Algorithm ID: \$80 (128₁₀)

Key ID: \$0000 (0₁₀)

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	7FIRE64	Fire	769.99375	\$F7E	799.99375	\$293	D
Simplex	7FIRE64D	Fire	769.99375	\$F7E	769.99375	\$293	D
Duplex	7MED65	EMS	769.39375	\$F7E	799.39375	\$293	D
Simplex	7MED65D	EMS	769.39375	\$F7E	769.39375	\$293	D
Duplex	7MED66	EMS	769.49375	\$F7E	799.49375	\$293	D
Simplex	7MED66D	EMS	769.49375	\$F7E	769.49375	\$293	D
Duplex	7DATA69	Mobile Data (Voice on secondary basis)	770.74375	\$F7E	800.74375	\$293	D
Simplex	7DATA69D	Mobile Data (Voice on secondary basis)	770.74375	\$F7E	770.74375	\$293	D
Duplex	7CALL70**	Calling Channel	773.25625	\$F7E	803.25625	\$293	D
Simplex	7CALL70D**	Calling Channel	773.25625	\$F7E	773.25625	\$293	D
Duplex	7TAC71	General Public Safety	773.10625	\$F7E	803.10625	\$293	D
Simplex	7TAC71D	General Public Safety	773.10625	\$F7E	773.10625	\$293	D

700 MHz Band Interoperable Tactical Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 ¶ 87 (10/24/2014).

TX NAC: \$293 (659 10). RX NAC \$F7E (3966₁₀).

Talk Group ID: \$00001 (1₁₀)

Manufacturer's ID: \$00 (0₁₀)

Message ID: \$00000000000000000000 (0₁₀)

Encryption:

- No encryption on calling channels

- Algorithm ID: \$80 (128₁₀)

Key ID: \$0000 (0₁₀)

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	7TAC72	General Public Safety	773.60625	\$F7E	803.60625	\$293	D
Simplex	7TAC72D	General Public Safety	773.60625	\$F7E	773.60625	\$293	D
Duplex	7TAC73	General Public Safety	774.10625	\$F7E	804.10625	\$293	D
Simplex	7TAC73D	General Public Safety	774.10625	\$F7E	774.10625	\$293	D
Duplex	7TAC74	General Public Safety	774.60625	\$F7E	804.60625	\$293	D
Simplex	7TAC74D	General Public Safety	774.60625	\$F7E	774.60625	\$293	D
Duplex	7TAC75	General Public Safety	773.75625	\$F7E	803.75625	\$293	D
Simplex	7TAC75D	General Public Safety	773.75625	\$F7E	773.75625	\$293	D
Duplex	7TAC76	General Public Safety	774.25625	\$F7E	804.25625	\$293	D
Simplex	7TAC76D	General Public Safety	774.25625	\$F7E	774.25625	\$293	D
Duplex	7TAC77	Other Public Service	774.85625	\$F7E	804.85625	\$293	D
Simplex	7TAC77D	Other Public Service	774.85625	\$F7E	774.85625	\$293	D

700 MHz Band Interoperable Tactical Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 ¶ 87 (10/24/2014).

TX NAC: \$293 (659 10). RX NAC \$F7E (3966₁₀).

Talk Group ID: \$00001 (1₁₀)

Manufacturer's ID: \$00 (0₁₀)

Message ID: \$00000000000000000000 (0₁₀)

Encryption:

- No encryption on calling channels

- Algorithm ID: \$80 (128₁₀)

Key ID: \$0000 (0₁₀)

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	7MOB79	Mobile Repeater	774.50625	\$F7E	804.50625	\$293	D
Simplex	7MOB79D	Mobile Repeater	774.50625	\$F7E	774.50625	\$293	D
Duplex	7LAW81	Law Enforcement	774.00625	\$F7E	804.00625	\$293	D
Simplex	7LAW81D	Law Enforcement	774.00625	\$F7E	774.00625	\$293	D
Duplex	7LAW82	Law Enforcement	774.35625	\$F7E	804.35625	\$293	D
Simplex	7LAW82D	Law Enforcement	774.35625	\$F7E	774.35625	\$293	D
Duplex	7FIRE83	Fire	773.50625	\$F7E	803.50625	\$293	D
Simplex	7FIRE83D	Fire	773.50625	\$F7E	773.50625	\$293	D
Duplex	7FIRE84	Fire	773.85625	\$F7E	803.85625	\$293	
Simplex	7FIRE84D	Fire	773.85625	\$F7E	773.85625	\$293	
Duplex	7MED86	EMS	773.00625	\$F7E	803.00625	\$293	
Simplex	7MED86D	EMS	773.00625	\$F7E	773.00625	\$293	

700 MHz Band Interoperable Tactical Channels

Mode: Only P25 FDMA Phase 1 Common Air Interface permitted per FCC R&O 14-172 ¶ 87 (10/24/2014).

TX NAC: \$293 (659 10). RX NAC \$F7E (3966₁₀).

Talk Group ID: \$00001 (1₁₀)

Manufacturer's ID: \$00 (0₁₀)

Message ID: \$00000000000000000000 (0₁₀)

Encryption:

- No encryption on calling channels

- Algorithm ID: \$80 (128₁₀)

Key ID: \$0000 (0₁₀)

Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	7MED87	EMS	773.35625	\$F7E	803.35625	\$293	
Simplex	7MED87D	EMS	773.35626	\$F7E	773.35625	\$293	
Duplex	7DATA89	Mobile Data (Voice on secondary basis)	774.75625	\$F7E	804.75625	\$293	
Simplex	7DATA89D	Mobile Data (Voice on secondary basis)	774.75625	\$F7E	774.75625	\$293	

“\$” Indicates hexadecimal value, “10” subscript indicates decimal value.

“*” Recommended as PRIMARY calling channel for 700 MHz Band.

“**” Recommended as SECONDARY calling channel or INCIDENT calling channel for 700 MHz band.

700 MHz Nationwide Air-Ground Channels

Primary Use	Channel Name	Mobile RX (MHz)	Mobile TX (MHz)
Air - Ground	7AG58	769.13125	799.13125
Air - Ground	7AG58D	769.13125	769.13125
Air - Ground	7AG60	769.63125	799.63125

700 MHz Nationwide Air-Ground Channels

Primary Use	Channel Name	Mobile RX (MHz)	Mobile TX (MHz)
Air - Ground	7AG60D	769.63125	769.63125
Air - Ground	7AG67	770.13125	800.13125
Air - Ground	7AG67D	770.13125	770.13125
Air - Ground	7AG68	770.63125	800.63125
Air - Ground	7AG68D	770.63125	770.63125
Air - Ground	7AG78	773.11875	803.11875
Air - Ground	7AG78D	773.11875	773.11875
Air - Ground	7AG80	773.61875	803.61875
Air - Ground	7AG80D	773.61875	773.61875
Air - Ground	7AG85	774.11875	804.11875
Air - Ground	7AG85D	774.11875	774.11875
Air - Ground	7AG88	774.61875	804.61875
Air - Ground (LZ)*	7AG88D	774.61875	774.61875

*7AG88D is recommended for Landing Zone use.

TX NAC: \$293 (659₁₀). RX NAC \$F7E (3966₁₀). These channels are reserved for air-ground communications to be used by low-altitude aircraft and ground-based stations: See FCC rule 90.531(7).

(i) Airborne use of these channels is limited to aircraft flying at or below 457 meters (1500 feet) above ground level.

(ii) Aircraft are limited to 2 watts effective radiated power (ERP) when transmitting while airborne on these channels.

(iii) Aircraft may transmit on either the mobile or base transmit side of the channel pair.

800 MHz Band

800 MHz Band Interoperable Tactical Channels							
Channel Config	Channel	Eligible Users	Mobile RX Freq.	RX Tone /NAC	Mobile TX Freq.	TX Tone /NAC	Mode A/D/M
Duplex	8CALL90	Any Public Safety	851.0125	156.7	806.0125	156.7	A
Simplex	8CALL90D	Any Public Safety	851.0125	156.7	851.0125	156.7	A
Duplex	8TAC91	Any Public Safety	851.5125	156.7	806.5125	156.7	A
Simplex	8TAC91D	Any Public Safety	851.5125	156.7	851.5125	156.7	A
Duplex	8TAC92	Any Public Safety	852.0125	156.7	807.0125	156.7	A
Simplex	8TAC92D	Any Public Safety	852.0125	156.7	852.0125	156.7	A
Duplex	8TAC93	Any Public Safety	852.5125	156.7	807.5125	156.7	A
Simplex	8TAC93D	Any Public Safety	852.5125	156.7	852.5125	156.7	A
Duplex	8TAC94	Any Public Safety	853.0125	156.7	808.0125	156.7	A
Simplex	8TAC94D	Any Public Safety	853.0125	156.7	853.0125	156.7	A

800 MHz National Interoperability channels are recommended for all public safety radios operating in the 800 MHz band. The use of these channels is covered by a blanket authorization per FC 00-348, Third Memorandum Opinion and Order and Third Report and Order, WT Docket No 96-86.

Default operation should be set to CARRIER SQUELCH receive unless needed to mitigate interference. If carrier squelch is selectable on the radio, the radio should be programmed to toggle carrier squelch on/off.

*Wideband is FM 20K0F3E.

1.12. Federal Interoperability Frequencies

The Federal Interoperability Channels may be used within the State of Michigan among federal agencies and between federal agencies and all non-federal levels of government entities with which federal agencies have a requirement to operate. The channels are available to non-federal entities to enable joint federal/non-federal operations for law enforcement, public safety, emergency response and disaster response, subject to the condition that harmful interference will not be caused to federal stations.

VHF Incident Response (IR) Federal Interoperability Channels

LICENSING REQUIRED: These frequencies are **NOT** covered by the blanket authorization for nationwide interoperability channels. **For Interoperability with Federal Stations only based on Federal MOU**

Suggested Assignment	Channel Name	Mobile RX Freq. (MHz)	Mobile RX CTCSS/NAC	Mobile TX Freq. (MHz)	Mobile TX CTCSS/NAC
Incident Calling	NC 1	169.5375	CSQ	164.7125	167.9
Incident Command	IR 1	170.0125	CSQ	165.2500	167.9
Medical Evacuation (Direct)	IR 2	170.4125	CSQ	165.9625	167.9
Logistics Control	IR 3	170.6875	CSQ	166.5750	167.9
Interagency Convoy	IR 4	173.0375	CSQ	167.3250	167.9
Incident Calling (Direct)	IR 5	169.5375	CSQ	169.5375	167.9
Incident Command (Direct)	IR 6	170.0125	CSQ	170.0125	167.9
Medical Evacuation	IR 7	170.4125	CSQ	170.4125	167.9

VHF Incident Response (IR) Federal Interoperability Channels

LICENSING REQUIRED: These frequencies are **NOT** covered by the blanket authorization for nationwide interoperability channels. **For Interoperability with Federal Stations only based on Federal MOU**

Suggested Assignment	Channel Name	Mobile RX Freq. (MHz)	Mobile RX CTCSS/NAC	Mobile TX Freq. (MHz)	Mobile TX CTCSS/NAC
Logistics Control (Direct)	IR 8	170.6875	CSQ	170.6875	167.9
Interagency Convoy (Direct)	IR 9	173.0375	CSQ	173.0375	167.9

See "Notice of existing use and restrictions table" below.

Default operation should be carrier squelch receive; CTCSS 167.9 transmit. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone also could be programmed for receive, and the user instructed how and when to enable/disable.

VHF Law Enforcement (LE) Federal Interoperability Channels

LICENSING REQUIRED: These frequencies are **NOT** covered by the blanket authorization for nationwide interoperability channels. **For Interoperability with Federal Stations only based on Federal MOU**

Suggested Assignment	Channel Name	Mobile RX Freq. (MHz)	Mobile RX CTCSS/NAC	Mobile TX Freq. (MHz)	Mobile TX CTCSS/NAC
Calling (Analog)	LE A	167.0875	CSQ	167.0875	167.9
Tactical (Analog)	LE 1	167.0875	CSQ	162.0875	167.9
Tactical	LE 2	167.2500	\$68F	162.2625	\$68F

VHF Law Enforcement (LE) Federal Interoperability Channels

LICENSING REQUIRED: These frequencies are **NOT** covered by the blanket authorization for nationwide interoperability channels. **For Interoperability with Federal Stations only based on Federal MOU**

Suggested Assignment	Channel Name	Mobile RX Freq. (MHz)	Mobile RX CTCSS/NAC	Mobile TX Freq. (MHz)	Mobile TX CTCSS/NAC
Tactical	LE 3	167.7500	\$68F	162.8375	\$68F
Tactical	LE 4	168.1125	\$68F	163.2875	\$68F
Tactical	LE 5	168.4625	\$68F	163.4250	\$68F
Tactical (Direct for LE 2)	LE 6	167.2500	\$68F	167.2500	\$68F
Tactical (Direct for LE 3)	LE 7	167.7500	\$68F	167.7500	\$68F
Tactical (Direct for LE 4)	LE 8	168.1125	\$68F	168.1125	\$68F
Tactical (Direct for LE 5)	LE 9	168.4625	\$68F	168.4625	\$68F

See "Notice of existing use and restrictions table" below.

CTCSS on receive only if user selectable; else CSQ.

"\$" indicates hexadecimal value

UHF Incident Response (IR) Federal Interoperability Channels

LICENSING REQUIRED: These frequencies are **NOT** covered by the blanket authorization for nationwide interoperability channels. **For Interoperability with Federal Stations only based on Federal MOU**

Suggested Assignment	Channel Name	Mobile RX Freq. (MHz)	Mobile RX CTCSS/NAC	Mobile TX Freq. (MHz)	Mobile TX CTCSS/NAC
Incident Calling	NC 2	410.2375	CSQ	419.2375	167.9
Ad hoc Assignment	IR 10	410.4375	CSQ	419.4375	167.9
Ad hoc Assignment	IR 11	410.6375	CSQ	419.6375	167.9
SAR Incident Command	IR 12	410.8375	CSQ	419.8375	167.9
Ad hoc Assignment	IR 13	413.1875	CSQ	413.1875	167.9
Interagency Convoy	IR 14	413.2125	CSQ	413.2125	167.9
Incident Calling (Direct)	IR 15	410.2375	CSQ	410.2375	167.9
Ad hoc (Direct for IR 10)	IR 16	410.4375	CSQ	410.4375	167.9
Ad hoc (Direct for IR 11)	IR 17	410.6375	CSQ	410.6375	167.9
SAR Incident Command (Direct)	IR 18	410.8375	CSQ	410.8375	167.9

See "Notice of existing use and restrictions table" below.

Default operation should be carrier squelch receive; CTCSS 167.9 transmit. If the user can enable/disable CTCSS without reprogramming the radio, the indicated CTCSS tone also could be programmed for receive, and the user instructed how and when to enable/disable.

UHF Law Enforcement (LE) Federal Interoperability Channels

LICENSING REQUIRED: These frequencies are **NOT** covered by the blanket authorization for nationwide interoperability channels. **For Interoperability with Federal Stations only based on Federal MOU**

Suggested Assignment	Channel Name	Mobile RX Freq. (MHz)	Mobile RX CTCSS/NAC	Mobile TX Freq. (MHz)	Mobile TX CTCSS/NAC
Calling (Analog)	LE B	414.0375	CSQ	414.0375	167.9
Tactical (Analog)	LE 10	409.9875	CSQ	418.9875	167.9
Tactical	LE 11	410.1875	\$68F	419.1875	\$68F
Tactical	LE 12	410.6125	\$68F	419.6125	\$68F
Tactical	LE 13	414.0625	\$68F	414.0625	\$68F
Tactical	LE 14	414.3125	\$68F	414.3125	\$68F
Tactical	LE 15	414.3375	\$68F	414.3375	\$68F
Tactical (Direct for LE 10)	LE 16	409.9875	CSQ	409.9875	167.9
Tactical (Direct for LE 11)	LE 17	410.1875	\$68F	410.1875	\$68F
Tactical (Direct for LE 12)	LE 18	410.6125	\$68F	410.6125	\$68F

See "Notice of existing use and restrictions table" below.

CTCSS on receive only if user selectable; else CSQ.

"\$" indicates hexadecimal value

Federal Interoperability Frequencies
Notice of existing interoperability use and other restrictions:

Channel	Frequency	Exclusion
LEA, LE1	167.0875	No use within 120 km of US/Canada Border (Ontario)
LE2	162.2625	No use within 120 km of 430413N, 0812254W
LE3	162.8375	No use within 120 km of 463121W, 0842158W
LE4	163.2875	No use within 120 km of 425719W, 0822440W nor 440015N, 0812437W
LE5	163.4250	No use within 120 km of 424636W, 0814832W nor 180 km of 431225N, 0805954W
LE5	163.4250, 168.4625	DOJ 25 Cities – No use within 30 km of 421953N, 0833011W
LE6	167.2500	No use within 120 km of 425244N, 0815909W
LE7	167.7500	No use within 60 km of 463123N, 0842406W
LE9	168.4625	No use within 120 km of 461248N, 0835807W nor 425650N, 0820710W
NC1	164.7125	No use within 120 km of 424117N, 0821652W
IR1	165.2500	No use within 120 km of 425309N 0820900W nor 120 km of 461323N, 0825556W
IR2	165.9625	No use within 120 km of 460000N, 0842000W nor 454846N, 0823605W nor 423519N, 0823605W
IR3	166.5750	No use within 120 km of 433605N, 0812124W
IR4	167.3250	No use within 200 km of 424804N, 0812703W

IR5	169.5375	No use within 120 km of 463130N, 0842200W, nor 462254N, 0823910W, nor 421929N, 0825933W, nor within 120 km of the US/Canada Border (Ontario)
IR6	170.0125	No use within 120 km of 463357N, 0842104W nor 421915N, 0825131W
IR7	170.4125	No use within 120 km of 424320N, 0814140W nor 80 km of 463254N, 0841935W
IR8	170.6875	No use within 120 km of 465238N, 0833409W, nor 433400N, 0814459W nor 421653N, 0823252W nor 60 km of 463130N, 0842200W
IR9	173.0375	No use within 120 km of 433648N, 0795528W nor 60 km of 463130N, 0842200W

1.1. Michigan Mutual Aid Channels Michigan Mutual Aid Channels

Michigan's VHF Interoperability Template						
VHF High Band						
Note: FCC licensure is required on the non-national Interoperability channels.						
CH	Channel Name	Mobile Receive	RX Tone/NAC	Mobile Transmit	TX Tone /NAC	Description
1	VCALL10	155.7525	156.7 (5A) or CSQ	155.7525	156.7 (5A)	National Interoperability
2	VTAC11	151.1375	156.7 (5A) or CSQ	151.1375	156.7 (5A)	National Interoperability
3	VTAC12	154.4525	156.7 (5A) or CSQ	154.4525	156.7 (5A)	National Interoperability
4	VTAC13	158.7375	156.7 (5A) or CSQ	158.7375	156.7 (5A)	National Interoperability

Michigan's VHF Interoperability Template

VHF High Band

Note: FCC licensure is required on the non-national Interoperability channels.

CH	Channel Name	Mobile Receive	RX Tone/NAC	Mobile Transmit	TX Tone /NAC	Description
5	VTAC14	159.4725	156.7 (5A) or CSQ	159.4725	156.7 (5A)	National Interoperability
6	VFIRE21	154.2800	156.7 (5A) or CSQ	154.2800	156.7 (5A)	Fire Mutual Aid
7	VFIRE22	154.2650	156.7 (5A) or CSQ	154.2650	156.7 (5A)	Fire Mutual Aid
8	VFIRE23	154.2950	156.7 (5A) or CSQ	154.2950	156.7 (5A)	Fire Mutual Aid
9	VFIRE24	154.2725	156.7 (5A) or CSQ	154.2725	156.7 (5A)	Fire Mutual Aid
10	VFIRE25	154.2875	156.7 (5A) or CSQ	154.2875	156.7 (5A)	Fire Mutual Aid
11	VFIRE26	154.3025	156.7 (5A) or CSQ	154.3025	156.7 (5A)	Fire Mutual Aid
12	VMED28/HERN	155.3400	Multiple or CSQ	155.3400	CSQ	EMS / Hospital
13	VMEDTAC	155.3550	210.7 (M2)	155.3550	210.7 (M2)	EMS Mutual Aid Tac
14	MEPPS	155.8650	CSQ	155.8650	CSQ	Law Statewide Mutual Aid
15	VLAW31	155.4750	156.7 (5A) or CSQ	155.4750	156.7 (5A)	Law Mutual Aid
16	VLAW32	155.4825	156.7 (5A) or CSQ	155.4825	156.7 (5A)	Law Mutual Aid
17	SWFIRE	154.2950	CSQ	154.2950	CSQ	Fire Statewide Mutual Aid
18	FMDTAC1	151.3250	CSQ	151.3250	CSQ	Fire Tac

Michigan's VHF Interoperability Template

VHF High Band

Note: FCC licensure is required on the non-national Interoperability channels.

CH	Channel Name	Mobile Receive	RX Tone/NAC	Mobile Transmit	TX Tone /NAC	Description
19	FMDTAC2	159.2700	CSQ	159.2700	CSQ	Fire Tac
20	FMDTAC3	159.3450	CSQ	159.3450	CSQ	Fire Tac

Michigan's MABAS VHF Template

VHF High Band

Note: FCC licensure is required on the non-national Interoperability channels.

CH	Channel Name	Mobile Receive	RX Tone/NAC	Mobile Transmit	TX Tone /NAC	Description
1	IFERN	154.2650	210.7 Hz	154.2650	210.7 Hz	Response Coord.
2	IFERN 2	154.3025	67.0 Hz	154.3025	67.0 Hz	Response Coord.
3	FG-RED	153.8300	69.3 Hz	153.8300	69.3 Hz	Fireground
4	FG-WHITE	154.2800	74.4 Hz	154.2800	74.4 Hz	Fireground
5	FG-BLUE	154.2950	85.4 Hz	154.2950	85.4 Hz	Fireground
6	FG-GOLD	153.8375	91.5 Hz	153.8375	91.5 Hz	Fireground
7	FG-BLACK	154.2725	94.8 Hz	154.2725	94.8 Hz	Fireground
8	FG-GRAY	154.2875	136.5 Hz	154.2875	136.5 Hz	Fireground
9	VCALL10	155.7525	156.7 Hz	155.7525	156.7 Hz	Interoperability
10	VTAC11	151.1375	156.7 Hz	151.1375	156.7 Hz	Interoperability
11	VTAC12	154.4525	156.7 Hz	154.4525	156.7 Hz	Interoperability
12	VTAC13	158.7375	156.7 Hz	158.7375	156.7 Hz	Interoperability
13	VTAC14	159.4725	156.7 Hz	159.4725	156.7 Hz	Interoperability

Michigan's MABAS VHF National Interoperability Template

VHF High Band

Note: FCC licensure is required on the non-national Interoperability channels.

CH	Channel Name	Mobile Receive	RX Tone/NAC	Mobile Transmit	TX Tone /NAC	Description
1	VCALL10	155.7525	156.7 (5A) or CSQ	155.7525	156.7 (5A)	National Interop.
2	VTAC11	151.1375	156.7 (5A) or CSQ	151.1375	156.7 (5A)	National Interop.
3	VTAC12	154.4525	156.7 (5A) or CSQ	154.4525	156.7 (5A)	National Interop.
4	VTAC13	158.7375	156.7 (5A) or CSQ	158.7375	156.7 (5A)	National Interop.
5	VTAC14	159.4725	156.7 (5A) or CSQ	159.4725	156.7 (5A)	National Interop.
6	VFIRE21	154.2800	156.7 (5A) or CSQ	154.2800	156.7 (5A)	Fire Mutual Aid
7	VFIRE22	154.2650	156.7 (5A) or CSQ	154.2650	156.7 (5A)	Fire Mutual Aid
8	VFIRE23	154.2950	156.7 (5A) or CSQ	154.2950	156.7 (5A)	Fire Mutual Aid
9	VFIRE24	154.2725	156.7 (5A) or CSQ	154.2725	156.7 (5A)	Fire Mutual Aid
10	VFIRE25	154.2875	156.7 (5A) or CSQ	154.2875	156.7 (5A)	Fire Mutual Aid
11	VFIRE26	154.3025	156.7 (5A) or CSQ	154.3025	156.7 (5A)	Fire Mutual Aid

1.2. Michigan's Public Safety Communications System Standard Integrability Talkgroups

Michigan's Public Safety Communications System		
Zone E		
Ch	Name	Description
1	STATW1	Statewide Region 1
2	STATW2	Statewide Region 2
3	STATW3	Statewide Region 3
4	STATW5	Statewide Region 5
5	STATW6	Statewide Region 6
6	STATW7	Statewide Region 7
7	STATW8	Statewide Region 8
8	AIRLZ1	Statewide Air Landing Zone 1
9	AIRLZ2	Statewide Air Landing Zone 2
10	USCGAV1	US Coast Guard
11	USCGAV2	US Coast Guard

Michigan's Public Safety Communications System

Michigan's Public Safety Communications System					
Zone F	Non-Federal 800 MHz National Mutual Aid				
Name	Mobile RX	RX Tone/ NAC	Mobile TX	TX Tone/NAC	Description
8CALL90	851.0125	156.7 Hz	806.0125	156.7 Hz	Calling
8CAL90D	851.0125	156.7 Hz	851.0125	156.7 Hz	Calling - Direct
8TAC91	851.5125	156.7 Hz	806.5125	156.7 Hz	Tactical
8TAC91D	851.5125	156.7 Hz	851.5125	156.7 Hz	Tactical - Direct
8TAC92	852.0125	156.7 Hz	807.0125	156.7 Hz	Tactical
8TAC92D	852.0125	156.7 Hz	852.0125	156.7 Hz	Tactical - Direct
8TAC93	852.5125	156.7 Hz	807.5125	156.7 Hz	Tactical
8TAC93D	852.5125	156.7 Hz	852.5125	156.7 Hz	Tactical - Direct
8TAC94	853.0125	156.7 Hz	808.0125	156.7 Hz	Tactical
8TAC94D	853.0125	156.7 Hz	853.0125	156.7 Hz	Tactical - Direct
7CAL50D	769.24375	\$F7E	769.24375	\$293	Calling Channel *
7TAC51D	769.14375	\$F7E	769.14375	\$293	General Public Safety
7TAC52D	769.64375	\$F7E	769.64375	\$293	General Public Safety
7TAC53D	770.14375	\$F7E	770.14375	\$293	General Public Safety
7TAC54D	770.64375	\$F7E	770.64375	\$293	General Public Safety
7TAC55D	769.74375	\$F7E	769.74375	\$293	General Public Safety

Michigan's Public Safety Communications System

Zone G Assigned by request to NCC. Note: Zone G is non-encrypted		
Ch	Name	Description
1	EVENT01	Event Talk Group
2	EVENT02	Event Talk Group
3	EVENT03	Event Talk Group
4	EVENT04	Event Talk Group
5	EVENT05	Event Talk Group
6	EVENT06	Event Talk Group
7	EVENT07	Event Talk Group
8	EVENT08	Event Talk Group
9	EVENT09	Event Talk Group
10	EVENT10	Event Talk Group
11	EVENT11	Event Talk Group
12	EVENT12	Event Talk Group
13	EVENT13	Event Talk Group
14	EVENT14	Event Talk Group
15	EVENT15	Event Talk Group
16	DYNRGRP	Dynamic Regroup

Michigan's Public Safety Communications System

Michigan's Public Safety Communications System		
Zone H	Assigned by request to NCC. Note: Zone H is non-encrypted	
Ch	Name	Description
1	EVENT16	Event Talk Group
2	EVENT17	Event Talk Group
3	EVENT18	Event Talk Group
4	EVENT19	Event Talk Group
5	EVENT20	Event Talk Group
6	EVENT21	Event Talk Group
7	EVENT22	Event Talk Group
8	EVENT23	Event Talk Group
9	EVENT24	Event Talk Group
10	EVENT25	Event Talk Group
11	EVENT26	Event Talk Group
12	EVENT27	Event Talk Group
13	EVENT28	Event Talk Group
14	EVENT29	Event Talk Group
15	EVENT30	Event Talk Group

Michigan's Public Safety Communications System

Zone I	Assigned by request to NCC. Note: Zone I is encryption capable with MPSCS key	
Ch	Name	Description
1	EVENT31	Event Talk Group (Law Only)
2	EVENT32	Event Talk Group (Law Only)
3	EVENT33	Event Talk Group (Law Only)
4	EVENT34	Event Talk Group (Law Only)
5	EVENT35	Event Talk Group (Law Only)
6	EVENT36	Event Talk Group (Law Only)
7	EVENT37	Event Talk Group (Law Only)
8	EVENT38	Event Talk Group (Law Only)
9	EVENT39	Event Talk Group (Law Only)
10	EVENT40	Event Talk Group (Law Only)
11	EVENT41	Event Talk Group (Law Only)
12	EVENT42	Event Talk Group (Law Only)
13	EVENT43	Event Talk Group (Law Only)
14	EVENT44	Event Talk Group (Law Only)
15	EVENT45	Event Talk Group (Law Only)
16	EVENT46	Event Talk Group (Law Only)

Michigan's Public Safety Communications System

Zone J	Assigned by request to NCC Note: Zone J is encryption capable with MPSCS key	
Ch	Name	Description
1	EVENT47	Event Talk Group
2	EVENT48	Event Talk Group
3	EVENT49	Event Talk Group
4	EVENT50	Event Talk Group
5	EVENT51	Event Talk Group
6	EVENT52	Event Talk Group
7	EVENT53	Event Talk Group
8	EVENT54	Event Talk Group
9	EVENT55	Event Talk Group
10	EVENT56	Event Talk Group
11	EVENT57	Event Talk Group
12	EVENT58	Event Talk Group
13	EVENT59	Event Talk Group
14	EVENT60	Event Talk Group
15	EVENT61	Event Talk Group
16	EVENT62	Event Talk Group

Michigan's Public Safety Communications System

Zone K	Pending implementation. Reserved For future use. Zone K encryption TBD.	
Ch	Name	Description
1	EVENT63	Reserved For future use
2	EVENT64	Reserved For future use
3	EVENT65	Reserved For future use
4	EVENT66	Reserved For future use
5	EVENT67	Reserved For future use
6	EVENT68	Reserved For future use
7	EVENT69	Reserved For future use
8	EVENT70	Reserved For future use
9	EVENT71	Reserved For future use
10	EVENT72	Reserved For future use
11	EVENT73	Reserved For future use
12	EVENT74	Reserved For future use
13	EVENT75	Reserved For future use
14	EVENT76	Reserved For future use
15	EVENT77	Reserved For future use
16	EVENT78	Reserved For future use

Michigan's Public Safety Communications System

Zone L	Pending implementation. Reserved For future use. Zone L encryption TBD.	
Ch	Name	Description
1	EVENT79	Reserved For future use (Law Only)
2	EVENT80	Reserved For future use (Law Only)
3	EVENT81	Reserved For future use (Law Only)
4	EVENT82	Reserved For future use (Law Only)
5	EVENT83	Reserved For future use (Law Only)
6	EVENT84	Reserved For future use (Law Only)
7	EVENT85	Reserved For future use (Law Only)
8	EVENT86	Reserved For future use (Law Only)
9	EVENT87	Reserved For future use (Law Only)
10	EVENT88	Reserved For future use (Law Only)
11	EVENT89	Reserved For future use (Law Only)
12	EVENT90	Reserved For future use (Law Only)
13	EVENT91	Reserved For future use (Law Only)
14	EVENT92	Reserved For future use (Law Only)
15	EVENT93	Reserved For future use (Law Only)
16	EVENT94	Reserved For future use (Law Only)

Michigan's Public Safety Communications System

Emergency Management

Name	Description
EMMD1	Statewide Emergency Management Region 1 (MSP Approval Required)
EMMD2	Statewide Emergency Management Region 2 (MSP Approval Required)
EMMD3	Statewide Emergency Management Region 3 (MSP Approval Required)
EMMD5	Statewide Emergency Management Region 5 (MSP Approval Required)
EMMD6	Statewide Emergency Management Region 6 (MSP Approval Required)
EMMD7	Statewide Emergency Management Region 7 (MSP Approval Required)
EMMD8	Statewide Emergency Management Region 8 (MSP Approval Required)

Michigan's Public Safety Communications System

Zone M	Michigan MABAS Talk groups	
Ch	Name	Description
1	MABAS1	MABAS Tactical Talk Group
2	MABAS2	MABAS Tactical Talk Group
3	MABAS3	MABAS Tactical Talk Group
4	MABAS4	MABAS Tactical Talk Group
5	MABAS5	MABAS Tactical Talk Group

Michigan's Public Safety Communications System

Michigan's Public Safety Communications System		
Zone M	Michigan MABAS Talk groups	
Ch	Name	Description
6	MABASDSP	MABAS Dispatch
7	MABASCC1	MABAS Coordination 1
8	MABASCC2	MABAS Coordination 2

Michigan's Public Safety Communications System

Michigan Department of Health and Human Services (Medical Only)

Name	Description
CHREG1	MIDHHS Region 1
CHREG2N	MIDHHS Region 2 North
CHREG2S	MIDHHS Region 2 South
CHREG3	MIDHHS Region 3
CHREG5	MIDHHS Region 5
CHREG6	MIDHHS Region 6
CHREG7	MIDHHS Region 7
CHREG8	MIDHHS Region 8
CHOPHP1	Bureau of EMS, Trauma, and Preparedness Coord

Michigan's Public Safety Communications System

Michigan Department of Health and Human Services (Medical Only)

Name	Description
CHOPHP2	Bureau of EMS, Trauma, and Preparedness Coord
CHOPHP3	Bureau of EMS, Trauma, and Preparedness Coord

Michigan's Public Safety Communications System

Zone R1	Region 1 Interop. Available to Region 1 agencies.	
Ch	Name	Description
1	R1OPS1	Region 1 Interop
2	R1OPS2	Region 1 Interop
3	R1OPS3	Region 1 Interop
4	R1OPS4	Region 1 Interop
5	R1OPS5	Region 1 Interop
6	R1OPS6	Region 1 Interop
7	R1OPS7	Region 1 Interop
8	R1OPS8	Region 1 Interop
9	R1OPS9	Region 1 Interop
10	R1OPS10	Region 1 Interop
11	R1OPS11	Region 1 Interop

12	R1OPS12	Region 1 Interop
13	R1OPS13	Region 1 Interop
14	R1OPS14	Region 1 Interop
15	R1OPS15	Region 1 Interop
16	R1OPS16	Region 1 Interop

Michigan's Public Safety Communications System

Michigan's Public Safety Communications System		
Zone R5	Region 5 Interop. Available to Region 5 agencies.	
Ch	Name	Description
1	R5SPEV1	Region 5 Interop
2	R5SPEV2	Region 5 Interop
3	R5SPEV3	Region 5 Interop
4	R5SPEV4	Region 5 Interop
5	R5SPEV5	Region 5 Interop
6	R5SPEV6	Region 5 Interop
7	R5SPEV7	Region 5 Interop
8	R5SPEV8	Region 5 Interop
9	R5SPEV9	Region 5 Interop

Michigan's Public Safety Communications System

Zone R6	Region 6 Interop. Available to Region 6 agencies.	
Ch	Name	Description
1	R6COM	Region 6 Interop
2	R6EMER	Region 6 Interop
3	R6LIFE	Region 6 Interop
4	R6SPEV1	Region 6 Interop
5	R6SPEV2	Region 6 Interop
6	R6SPEV3	Region 6 Interop
7	R6SPEV4	Region 6 Interop
8	R6SPEV5	Region 6 Interop
9	R6SPEV6	Region 6 Interop
10	R6SPEV7	Region 6 Interop
11	R6SPEV8	Region 6 Interop
12	R6SPEV9	Region 6 Interop
13	R6FIRE	Region 6 Interop
14	R6LE	Region 6 Interop
15	R6SPE12	Region 6 Interop
16	R6SPE13	Region 6 Interop

Michigan's Public Safety Communications System

Zone R7	Region 7 Interop. Available to Region 7 agencies.	
Ch	Name	Description
1	STATW7	Region 7 Interop
2	R7FIRE	Region 7 Interop
3	R7FOPS1	Region 7 Interop
4	R7FOPS2	Region 7 Interop
5	R7FOPS3	Region 7 Interop
6	8TAC91D	Region 7 Interop
7	8TAC92D	Region 7 Interop
8	8TAC93D	Region 7 Interop
9	8TAC94D	Region 7 Interop
10	7TAC51D	Region 7 Interop
11	7TAC52D	Region 7 Interop
12	R7EMS	Region 7 Interop
13	R7MCCC	Region 7 Interop
14	AIRLZ1	Region 7 Interop
15	AIRLZ2	Region 7 Interop
16	R7LAW	Region 7 Interop

Michigan's Public Safety Communications System

Zone R8	Region 8 Interop. Available to Region 8 agencies.	
Ch	Name	Description
1	R8OPS1	Region 8 Interop
2	R8OPS2	Region 8 Interop
3	R8OPS3	Region 8 Interop
4	R8OPS4	Region 8 Interop
5	R8LAW	Region 8 Interop
6	R8FIRE	Region 8 Interop
7	R8EMS	Region 8 Interop
8	R8COM	Region 8 Interop

1.6. Marine Channels (these channels are wide band – 25 kHz)

Channel Number*	Ship Transmit MHz	Ship Receive MHz	Use
6	156.3000	156.3000	Inter-ship Safety
9	156.4500	156.4500	Boater Calling – Commercial and Non-Commercial
13	156.6500	156.6500	Inter-ship Navigation Safety (Bridge-to-Bridge). Ships > 20m length maintain a listening watch on this channel in US waters.
16	156.8000	156.8000	International Distress, Safety and Calling. Ships required to carry radio, USCG, and most coast stations maintain a listening watch on this channel.
17	156.8500	156.8500	State and Local Government Maritime Control
21A	157.0500	157.0500	USCG Only
22A	157.1000	157.1000	USCG liaison and Maritime Safety Information Broadcasts; first make contact with USCG on Channel 16.
23A	157.1500	157.1500	USCG Only
69	156.4750	156.4750	Non-commercial. Working channel for voluntary boats.
72	156.6250	156.6250	Non-commercial. Working channel for voluntary boats
79A	156.9750	156.9750	Working channel for working ships – messages must be about business or the needs of the ship
80A	157.0250	157.0250	Working channel for working ships – messages must be about business or the needs of the ship
81A	157.0750	157.0750	US Government Only – environmental protection operations – not available to commercial and non-commercial vessels for normal use
83A	157.1750	157.1750	USCG Only

* “A” indicates simplex use of the ship station transmit frequency of an international duplex channel. Used in US waters only.

1.7. Gateways

“Gateway” systems interconnect channels of disparate systems (whether on different frequency bands or radio operating modes), allowing first responders using their existing radios and channels to be interconnected with the channels of other users outside of their agency.

During events where multiple agencies from multiple jurisdictions respond to an event, it is not uncommon to establish a “patch” or “bridge” between disparate systems to allow responders to communicate using their existing radios.

Gateways may be fixed or mobile. Fixed gateways such as console patching may be utilized on an incident/event or day-to-day basis. Due to limitations and potential communication challenges, it is highly recommended that gateways only be used under the guidance and planning of a qualified COML.

Since almost every dispatch center using consoles can establish patches, they are not listed individually. Mobile/deployable gateways are listed, by region, in the following tables.

Edits/Updates:

If your agency or region has new or updated information for the following tables, please contact and send the information to:

State of Michigan CASM Administrator
Michigan Communications Unit Work Group

Email: MI-CASM-AM@michigan.gov
Email: DTMB-MICOMU@michigan.gov

Mobile Gateways - Region 1

Gateway Owner	Detail	County	24/7 Phone Number
Eaton Co. Sheriff's Dept. EM		Eaton	517-372-8215
Lansing MMCSU - D1RMRC		Ingham	517-483-4570
Lenawee Co. 911		Lenawee	517-263-0524, ext. 1
Lenawee Co. MMCSU - D1RMRC		Ingham	517-263-0524
Livingston Co. EMS	Codespear	Livingston	517-540-9111
Livingston Co. MMCSU - D1RMRC		Ingham	517-546-9111
Meridian Twp. MMCSU - D1RMRC		Ingham	517-853-4791
MI National Guard HQ	ACU 1000	Ingham	269-420-3866
MI National Guard HQ	ACU 1000	Ingham	269-420-3866
MI National Guard HQ	ACU 1000	Ingham	269-420-3866
MMR - MMCSU [Saginaw]		Ingham	989-758-2911
MSP Communications (Mobile Command II)	ACU 1000	Ingham	517-241-8000
MSP Communications	ACU T	Ingham	517-241-8000

Mobile Gateways - Region 2

Gateway Owner	Detail	County	24/7 Phone Number
Canton Dept. of Public Safety		Wayne	734-394-5400, ext. 1
Oakland Co. MABAS Div. 3201 Comm. Team	Portable ICRI's	Oakland	248-858-5300
Oakland Co. MABAS Div. 3201 Comm. Team 2		Oakland	248-858-5300
Oakland Co. MABAS Div. 3201 Comm. Team 3		Oakland	248-858-5300
Oakland Co. Sheriff Dept.		Oakland	248-858-4911
Oakland Co. Sheriff Dept.	ACU-1000	Oakland	248-858-4911
Troy Fire Dept. MABAS Div. 3201 Comm. Team 1		Oakland	248-524-3478
Warren Police Dept.		Macomb	586-574-4700
Wayne Co. DHS and EM		Wayne	734-727-7287

Mobile Gateways - Region 3

Gateway Owner	Detail	County	24/7 Phone Number
Arenac Co. 911	Mod-U-Com	Arenac	989-846-4561
Huron Co. 911		Huron	419-663-2828
Oscoda Co. Sheriff Dept.		Oscoda	989-826-3214

Mobile Gateways - Region 5

Gateway Owner	Detail	County	24/7 Phone Number
Albion Dept. of Public Safety PSAP		Calhoun	269-781-0912
Barry Co. EM		Barry	269-948-4800 , ext. 1
Battle Creek Emergency Services	Mobile	Calhoun	269-781-0912
Berrien Co. EM/Office of Homeland Security	AC200-COW	Berrien	269-926-2638 and 269-926-2538
Branch Co. 911	ACU M	Branch	517-278-3091
Calhoun Co. Sheriff's Office	Mobile	Calhoun	269-781-0912
Cass Co. Sheriff's Office	TCB-4	Cass	269-445-1560
Kalamazoo Co. Sheriff's Office	ACU 1000	Kalamazoo	269-384-0911
Marshall Police Dept. PSAP		Calhoun	269-781-0912
Portage Public Safety - Fire	ACUM	Kalamazoo	269-327-4567

Mobile Gateways - Region 6

Gateway Owner	Detail	County	24/7 Phone Number
Grand Rapids Police Dept.		Kent	616-456-3408
Ionia Co. EM		Ionia	616-902-4652 or 616-527-0400
Isabella Co. 911		Isabella	989-773-1000

Gateway Owner	Detail	County	24/7 Phone Number
Kent Co. Sheriff Dept.		Kent	616-632-6100, ext. 1
Lake Co. 911		Lake	231-745-2711
Lake Co. EM	Codespear	Lake	231-745-2711
Meceola 911 Center		Mecosta	231-796-4811
Montcalm Co. Sheriff Dept.	AC, DC	Montcalm	989-831-3500
Muskegon Co. 911		Muskegon	231-722-3524, ext. 1
Newaygo Co. 911		Newaygo	231-689-5288
Oceana Co. EM		Oceana	231-869-5858
Ottawa Co. 911		Ottawa	616-994-7850 or 1-800-249-0911
Walker Police Dept.		Kent	616-453-5441
Wyoming Police Dept.		Kent	616-530-7300, ext. 1

Mobile Gateways - Region 7

Gateway Owner	Detail	County	24/7 Phone Number
Kalkaska Co. Central Dispatch		Kalkaska	231-258-3350
Manistee Co. 911		Manistee	231-723-6241
MSP Communications (Porta-Case)	ACU T	Otsego	517-241-8000

Mobile Gateways - Region 8

Gateway Owner	Detail	County	24/7 Phone Number
Chippewa Co. 911	ICRI Gateway	Chippewa	906-495-3312

1.8. Cache Radios

Cache radios are a supply of standby radios that can be deployed to support incidents. Spare radio(s) used as operational replacement for day-to-day use are NOT cache radios. Cache radios allow all responders to use common, compatible equipment during an incident and typically contain a minimum of 12 radios. Specific caches within the State, by region, are listed in the following tables.

To be available for deployment the radios should be packaged and have at least one of the following power sources:

- Rechargeable batteries (at least 2/radio)
- Limited use batteries
- “AA” clamshell adapters which permit the use of disposable AA alkaline batteries

Each cache should also have a method of tracking the issue and return of the radios such as bar code, T card, sign out sheets, etc.

Edits/Updates:

If your agency or region has new or updated information for the following tables, please contact and send the information to:

State of Michigan CASM Administrator
Michigan Communications Unit Work Group

Email: MI-CASM-AM@michigan.gov
Email: DTMB-MICOMU@michigan.gov

Cache Radios - Region 1

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Gratiot Co. EM	Analog	VHF High-Band (150-174 MHz)	Gratiot	989-875-7505
MPSCS - Emergency Pool	Digital	800/700 MHz	Ingham	517-333-5050 or 1-888-554-4622
MSP - Loaner Pool	Digital	800 (806/851 - 824/869 MHz)	Ingham	517-332-2521

Cache Radios - Region 2

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Health Emergency Medical Services, Inc.	Digital	800 (806/851 - 824/869 MHz)	Wayne	734-727-7284
Macomb Co. EM			Macomb	586-469-5502
Oakland Comm. Support Team MABAS 3201	Analog	UHF (450-512 MHz)	Oakland	248-858-5300
Oakland Comm. Support Team MABAS 3201	Digital	700 (764/794 - 776/806 MHz)	Oakland	248-858-5300
Oakland Comm. Support Team MABAS 3201	Analog	VHF High-Band (150-174MHz)	Oakland	248-858-5300
Washtenaw Co. Sheriff's Dept.	Digital	800 (806/851 - 824/869 MHz)	Washtenaw	734-994-2911

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Wayne Co. DHS and EM	Digital	800 (806/851 - 824/869 MHz)	Wayne	734-727-7287

Cache Radios - Region 3

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Auburn Police Dept.	Digital	800 (806/851 - 824/869 MHz)	Bay	989-895-4050 or 989-892-9551
Auburn-Williams Fire Dept.	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
Bay City Fire Rescue [Station 1]	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
Bay Co. 911	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
Bay Co. EMD	Digital	800 (806/851 - 824/869 MHz)	Bay	989-895-4050 or 989-892-9551
Bay Co. Health Dept.	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
Bay Co. Sheriff Dept.	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
Clayton Twp. Police Dept.	Analog	VHF High-Band (150-174MHz)	Genesee	810-732-4720

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Delta College Police	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
East Tawas Fire Dept.	Analog	VHF High-Band (150-174MHz)	Iosco	989-362-1430
East Tawas Fire Dept.	Digital	800 (806/851 - 824/869 MHz)	Iosco	989-362-1430
Essexville – Fire	Analog	VHF High-Band (150-174MHz)	Bay	989-895-4050 or 989-892-9551
Gaines Village Police Dept.	Analog	VHF High-Band (150-174MHz)	Genesee	810-732-4720
Gladwin Co. EOC	Analog	700 (764/794 - 776/806 MHz)	Gladwin	989-426-9284 or 989-426-6871
Huron Co. 911	Digital	800 (806/851 - 824/869 MHz)	Huron	419-663-2828
Iosco Co. 911 911	Digital	800 (806/851 - 824/869 MHz)	Iosco	989-362-1430
Iosco Co. EMS	Digital	800 (806/851 - 824/869 MHz)	Iosco	989-362-1430
Lapeer Co. 911	Digital	800 (806/851 - 824/869 MHz)	Lapeer	810-667-0292
Linden Police Dept.	Analog	VHF High-Band (150-174MHz)	Genesee	810-732-4720
Midland Co. 911	Digital	800 (806/851 - 824/869 MHz)	Midland	989-839-6466
Midland Co. EM	Digital	800 (806/851 - 824/869 MHz)	Midland	989-839-6466
MMR-Saginaw	Digital	800 (806/851 - 824/869 MHz)	Bay	989-758-2911
Monitor Twp. Fire Dept.	Analog	VHF High-Band (150-174MHz)	Bay	989-684-6320

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Ogemaw Goodar Twp. Fire Dept.	Analog	VHF High-Band (150-174MHz)	Ogemaw	989-345-9911
Plainfield Fire Dept.	Digital	800 (806/851 - 824/869 MHz)	Iosco	989-362-1430
Plainfield Fire Dept.	Analog	VHF High-Band (150-174MHz)	Iosco	989-362-1430
Saginaw Co. 911 Communications	Digital	700 (764/794 - 776/806 MHz)	Saginaw	989-797-4580
Sanilac Co. Sheriff's Dept.	Analog	VHF High-Band (150-174MHz)	Sanilac	810-648-2000, ext. 2
Tawas City Fire Dept.	Analog	VHF High-Band (150-174MHz)	Iosco	989-362-1430
Tawas City Fire Dept.	Digital	800 (806/851 - 824/869 MHz)	Iosco	989-362-1430
Tuscola Co. EOC	Digital	800 (806/851 - 824/869 MHz)	Tuscola	989-673-8161 or 989-673-8165

Cache Radios - Region 5

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Allegan Co. 911	Digital	800 (806/851 - 824/869 MHz)	Allegan	269-673-3899
Allegan Co. EM	Analog	VHF High-Band (150-174MHz)	Allegan	269-673-3899
Barry Co. EM	Digital	800 (806/851 - 824/869 MHz)	Barry	269-948-4800, ext. 1

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Battle Creek Emergency Services	Analog	VHF High-Band (150-174MHz)	Calhoun	269-781-0912
Berrien Co. Emergency Management and Homeland Security Division (EMHSD)	Analog	VHF High-Band (150-174MHz)	Berrien	269-926-2638 & 269-926-2538
Berrien Co. Emergency Management and Homeland Security Division (EMHSD)	Analog	UHF (450-512 MHz)	Berrien	269-926-2638 & 269-926-2538
Berrien Co. Emergency Management and Homeland Security Division (EMHSD)	Digital	800 (806/851 - 824/869 MHz)	Berrien	269-926-2638 & 269-926-2538
Branch Co. Office of EM	Analog	VHF High-Band (150-174MHz)	Branch	517-278-3091
Kalamazoo Co. Sheriff's Office	Digital	800 (806/851 - 824/869 MHz)	Kalamazoo	269-384-0911
St Joseph Co. 911	Digital	800 (806/851 - 824/869 MHz)	St. Joseph	269-467-4195
Van Buren Co. Sheriff	Digital	800 (806/851 - 824/869 MHz)	Van Buren	269-657-3101 or 269-657-2171

Cache Radios - Region 6

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Cascade Fire Dept.	Analog	VHF High-Band (150-174MHz)	Kent	616-949-1320
Grand Rapids Fire Dept.	Analog	UHF (450-512 MHz)	Kent	616-262-0820 or 616-456-3515
Ionia Co. 911	Digital	800 (806/851 - 824/869 MHz)	Ionia	616-902-4652 or 616-527-0400
Kent Co. Sheriff Dept.	Digital P25	700/800	Kent	616-632-6100, ext. 1
Kent Co. Sheriff Dept.	Analog/ Digital Turbo	UHF (450-512 MHz)	Kent	616-632-6100, ext. 1
Kent Co. Sheriff Dept.	Analog	VHF High-Band (150-174MHz)	Kent	616-632-6100, ext. 1
Lake Co. EM	Analog	VHF High-Band (150-174MHz)	Lake	231-745-2711
Montcalm Co. EMS	Digital	800 (806/851 - 824/869 MHz)	Montcalm	989-831-3500
Newaygo Co. 911	Analog	UHF (450-512 MHz)	Newaygo	231-689-5288

Cache Radios - Region 7

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Crawford Co. EMD – Grayling	Digital	800 (806/851 - 824/869 MHz)	Crawford	989-348-4911
Crawford Emergency 911	Analog	VHF High-Band (150-174MHz)	Crawford	989-348-4911
MPSCS - Emergency Pool	Digital	800/700 MHz	Otsego	517-333-5050 or 1-888-554-4622

Cache Radios - Region 8

Radio Cache Owner	Analog/ Digital	Detail	County	24/7 Phone Number
Baraga Co. Sheriff Dept.	Digital	800 (806/851 - 824/869 MHz)	Baraga	906-524-6177
Baraga Co. Sheriff Dept.	Analog	VHF High-Band (150-174MHz)	Baraga	906-524-6177
Chippewa Co. 911	Digital	800 (806/851 - 824/869 MHz)	Chippewa	906-495-3312
Chippewa Co. 911	Dual D/A	800 & VHF	Chippewa	906-495-3312
Keweenaw Bay Fire Dept.	Digital	800 (806/851 - 824/869 MHz)	Baraga	866-411-0018
MPSCS - Emergency Pool	Digital	800/700 MHz	Marquette	517-333-5050 or 1-888-554-4622

1.9. Mobile Command Units

A Mobile Command Unit refers to any vehicular asset that can be deployed to provide or supplement Incident Command Operations with associated communications capabilities in an incident area. The following tables show the Mobile Command Units by Region in the State of Michigan.

Mobile Command Units - Region 1

MCU Owner	Detail	County	24/7 Phone Number
MPSCS - Site on Wheels		Eaton	517-333-5050 or 1-888-554-4622

Mobile Command Units - Region 2

MCU Owner	Detail	County	24/7 Phone Number
NONE			

Mobile Command Units - Region 3

MCU Owner	Detail	County	24/7 Phone Number
NONE			

Mobile Command Units - Region 5

MCU Owner	Detail	County	24/7 Phone Number
Berrien Co. Emergency Management and Homeland Security Division	COW	Berrien	269-926-2638 & 269-926-2538
Berrien Co. Emergency Management and Homeland Security Division – (3) MTR 2000 Repeaters	Conventional (VHF/ UHF), 800 MHz	Berrien	269-926-2638 & 269-926-2538
Kalamazoo Co. Sheriff's Office (RACES)	Conventional (VHF/ UHF), 800 MHz	Kalamazoo	269-384-0911
Kalamazoo Co. Sheriff's Office (RACES)	Mobile Command, Conventional (VHF/ UHF), 800 MHz	Kalamazoo	269-384-0911

Mobile Command Units - Region 6

MCU Owner	Detail	County	24/7 Phone Number
NONE			

Mobile Command Units - Region 7

MCU Owner	Detail	County	24/7 Phone Number
NONE			

Mobile Command Units - Region 8

MCU Owner	Detail	County	24/7 Phone Number
NONE			

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Michigan's Public Safety Communications System (MPSCS)

Michigan's Public Safety Communications System (MPSCS) provides a stable, secure framework for interoperable communications among local, state, federal, tribal, and private first responders and supplies a public safety communication resource for citizens. Through its employees, MPSCS handles the second-largest trunked communication system in the world, including administration of a statewide 800/700 MHz digital trunked radio communication network spanning 59,415 square miles and including more than 1400 federal, state, local and private public safety agencies across the state of Michigan, and integrates with bordering states and Canada. Information about MPSCS including approved radios, system policies, forms, etc., can be found at their website:

<https://www.michigan.gov/mpscs>

MPSCS provides service and support through the division's headquarters in Lansing and a network of seven regional service centers.

Michigan's Public Safety Communications System

Michigan Department of Technology, Management & Budget 7150 Harris Drive
P.O. Box 30631 Lansing, MI 48909

Contact MPSCS Network Communications Center (NCC)

Email: mpscs-ncc@michigan.gov

Phone: [1-888-554-4622](tel:1-888-554-4622) or 517-333-5050 (24/7/365)

1.10. MPSCS Regional Service Centers

	Bay Region Office 3202 S. Euclid Ave., Bay City, MI 48706 Phone: 989-667-9343 Fax: 989-671-0930
	Capital Region Office 6951 Crouner Drive, Lansing, MI 48913 Phone: 517-322-5160 Fax: 517-636-4311
	Grand Region Office 8650 Algoma, Rockford, MI 49341 Phone: 616-866-2548 Fax: 616-866-2641
	Metro Region Office 42145 W. Seven Mile Road, Northville, MI 48167 Phone: 248-380-1080 Fax: 248-380-1045
	Northern Region 123 N. Fairview, Gaylord, MI 49735 Phone: 989-732-0781 Fax: 989-731-5425
	Southwest Region Phone: 269-207-8009 Fax: 269-731-2979
	Superior Region 1924 Industrial Parkway, Marquette, MI 49855 Phone: 906-227-7552 Fax: 906-225-0144

Michigan State Police (MSP)

As described in the Michigan Emergency Management Plan (MEMP), the plan is developed and maintained by the Michigan State Police Emergency Management and Homeland Security Division (MSP/EMHSD) in accordance with 1976 Public Act 390, in partnership with partner departments, agencies and organizations. The ultimate purposes of the plan are to: 1) protect the safety, health and general well-being of Michigan's residents and visitors from natural, technological, weapon of mass destruction attack, and human-related hazards occurring or otherwise impact the State of Michigan; 2) protect property and the environment; and 3) ensure that critical services can be provided in a timely and unencumbered manner. The MEMP is available for review at the link below.

http://www.michigan.gov/documents/msp/MEMP_portfolio_for_web_383520_7.pdf

Upon activation of the MEMP, MSP/EMHSD and other state departments/agencies and NGOs will provide direct assistance to affected local jurisdictions as specified in the plan and deemed necessary to protect public safety and/or health, property, and the environment, and/or to maintain critical public services. If deemed appropriate, the State Emergency Operations Center will be activated to coordinate incident-related activities and functions.

The Michigan State Police is organized into seven districts and 29 posts. EMHSD District Coordinators are assigned to each district and are the designated points of contact for access to EMHSD assistance. Post and district commanders are also available for assistance. Contact information for District Command and District EMHSD Coordinators, is included on the next page.

1.12. Michigan State Police District Contacts

District	Role	Contact
First District	First District Command	7119 North Canal Road, Lansing, MI 48913 Phone: 517-322-1912 Fax: 517-322-0675
First District	EMHSD First District Coordinator	Contact current District Coordinator through Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815
Second District	Second District Command	1301 Third St., Detroit, MI 48226 Phone: 313-962-7850 Fax: 313-962-3036
Second District	EMHSD Second District	Contact current District Coordinator through

District	Role	Contact
	<p>Coordinator, North Region</p> <p>North Region includes Oakland, Macomb, and St. Clair Counties.</p>	<p>Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815</p>
Second District	<p>EMHSD Second District Coordinator, South Region</p> <p>South Region includes Washtenaw, Wayne, and Monroe Counties.</p>	<p>Contact current District Coordinator through Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815</p>
Third District	Third District Command	<p>G-4495 Corunna Road, Flint, MI 48532 Phone: 810-733-9380 Fax: 810-733-9399</p>
Third District	EMHSD Third District Coordinator	<p>Contact current District Coordinator through Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815</p>
Fifth District	Fifth District Command	<p>108 W. Michigan Avenue, Paw Paw, MI 49079 Phone: 269-657-6081</p>

District	Role	Contact
		Fax: 269-657-7571
Fifth District	EMHSD Fifth District Coordinator	Contact current District Coordinator through Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815
Sixth District	Sixth District Commander	345 Northland Drive NE Rockford, MI 49341 Phone: 616-866-6666 Fax: 616-866-3997
Sixth District	EMHSD Sixth District Coordinator	Contact current District Coordinator through Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815
Seventh District	Seventh District Command	931 S. Otsego Avenue, Suite 6 Gaylord, MI 49735 Phone: 989-705-3800 Fax: 989-731-0123
Seventh District	EMHSD Seventh District	Contact current District Coordinator through

District	Role	Contact
	Coordinator	Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815
Eighth District	Eighth District Command	1924 Industrial Parkway, Suite A Marquette, MI 49855 Phone: 906-225-7030 Fax: 906-225-0904
Eighth District	EMHSD Eighth District Coordinator	Contact current District Coordinator through Michigan State Police Operations Phone: 517-241-8000 Toll-Free: 800-525-5555 (within Michigan) Fax: 517-241-6815

MSP District and Post Command information can be found at the following link.

<https://www.michigan.gov/msp/0,4643,7-123-59471---,00.html>

MSP Emergency Management & Homeland Security Division regional map can be found at the following link.

https://www.michigan.gov/documents/EMD_Map-2_5-12-05_124830_7.pdf

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Auxiliary Communications (AUXCOMM)

AUXCOMM is an umbrella term for a group of volunteer-based communications experts and specialists which assists in responding to and recovering from disasters by utilizing their skills and knowledge in communications. The AUXCOMM coordinator works with the Communications Unit Leader (COML) to determine communication needs for the incident, and to establish voice and/or data circuits as needed to provide communication support. Auxiliary Communicators (AUXC) are personnel trained in NIMS and the incident command system and have demonstrated proficiency through completion of the AUXCOMM position task book.

The AUXCOMM coordinator can also work with member organizations to facilitate communications via voice and/or data utilizing a variety of modes and bands. Member organizations include the Amateur Radio Emergency Service (ARES), Radio Amateur Civil Emergency Services (RACES), Amateur Radio Public Service Corps (ARPS), Civil Air Patrol (CAP), Salvation Army Team Emergency Radio Network (SATERN), American Red Cross (ARC), Central Michigan Emergency Network (CMEN), REACT, and other organizations as needed.

AUXCOMM personnel can be activated to serve in a variety of ways:

1. Provide personnel support to ESF#2 operations.
2. Provide communication support to local, tribal, territorial, insular area first responders as requested and approved.
3. Provide communications and Information Technology (IT) to response/recovery facilities within the area of operations.
4. Provide supplemental communication in times of disaster through their volunteer organizations.

5. Assist with MI-CIMS and other information handling systems.

Simplex VHF frequencies are assigned in each county for use if local amateur repeaters are not in service. A table of AUXCOMM frequencies can be found on the following page.

For more information on AUXCOMM and AUXCOMM Work Group, contact:

Max Schneider

State AUXCOMM Coordinator

989 859 4288

ke8don@arrl.net

Current information about the AUXCOMM Work Group can be found on the AUXCOMM WG website at the link below.

https://www.michigan.gov/mpscs/0,4640,7-184-67164_106309---,00.html

AUXCOMM Assigned County Frequencies

County	Frequency	Updated
Alcona	146.535	2012-04-21 05:43:16
Alger	147.46	2010-04-20 04:06:06
Allegan	147.47	2010-04-13 14:40:12
Alpena	146.58	2010-04-16 15:59:11
Antrim	146.58	2010-04-16 15:56:07
Arenac	146.460	2012-04-21 05:43:55
Baraga	146.45	2010-04-20 04:06:28
Barry	146.56	2010-04-16 10:03:09

County	Frequency	Updated
Bay	146.550	2012-04-21 05:44:25
Benzie	146.58	2010-04-16 16:03:56
Berrien	146.460	2012-05-09 07:27:12
Branch	146.550	2012-05-09 07:28:31
Calhoun	146.440	2012-05-09 07:28:10
Cass	No Data	No Data
Charlevoix	146.58	2010-04-16 15:57:20
Cheboygan	146.58	2010-04-16 15:57:36
Chippewa	146.54	2010-04-20 04:09:04
Clare	146.42	2012-03-06 11:28:40
Clinton	No Data	No Data
Crawford	146.58	2010-04-16 15:58:01
Delta	146.45	2010-04-20 04:09:23
Dickinson	146.58	2010-04-20 04:09:46
Eaton	146.550	2012-05-09 07:25:43
Emmet	146.58	2010-04-16 15:58:19
Genesee	147.580	2012-04-21 05:45:06
Gladwin	146.520	2012-04-21 05:45:32
Gogebic	146.47	2010-04-20 04:10:08

County	Frequency	Updated
Grand Traverse	146.58	2010-04-16 15:58:41
Gratiot	146.52	2012-05-09 07:25:14
Hillsdale	146.420	2012-05-09 07:24:53
Houghton	146.42	2010-04-20 04:10:44
Huron	No Data	No Data
Ingham/ Lansing	146.580	2012-05-09 07:26:09
Ionia	No Data	No Data
Iosco	146.550	2012-04-21 05:46:00
Iron	146.49	2010-04-20 04:11:01
Isabella	No Data	No Data
Jackson	146.430	2012-05-09 07:24:24
Kalkaska	146.58	2010-04-16 15:59:37
Kent	No Data	No Data
Keweenaw	146.56	2010-04-20 04:11:34
Kalamazoo	147.47	2010-04-13 14:41:08
Lake	No Data	No Data
Lapeer	147.580	2012-04-21 05:46:25
Leelanau	146.58	2010-04-16 15:59:55
Lenawee	No Data	No Data

County	Frequency	Updated
Livingston	146.580	2012-05-09 07:26:35
Luce	146.40	2010-04-20 04:11:59
Mackinac	146.58	2010-04-20 04:12:36
Macomb	146.58	2010-04-21 06:08:41
Manistee	146.58	2010-04-16 16:00:30
Marquette	147.44	2010-04-20 04:13:59
Mason	No Data	No Data
Mecosta	146.470	2012-05-09 07:23:02
Menominee	146.56	2010-04-20 04:13:42
Midland	146.49	2010-04-13 14:46:23
Missaukee	146.58	2010-04-16 16:00:50
Monroe	146.58	2010-04-21 06:09:01
Montcalm	No Data	No Data
Montmorency	146.58	2010-04-16 16:01:21
Muskegon	147.435	2013-10-22 13:14:14
Newaygo	146.540	2012-05-09 07:22:35
Oakland	146.58	2010-04-21 06:08:05
Oceana	146.535	2012-05-09 07:22:01
Ogemaw	147.440	2012-04-21 05:46:55

County	Frequency	Updated
Ontonagon	146.40	2010-04-20 04:14:24
Osceola	146.580	2012-05-09 07:21:19
Oscoda	146.480	2012-04-21 05:47:26
Otsego	146.58	2010-04-16 16:01:39
Ottawa	146.52	2012-05-09 07:23:56
Presque Isle	146.58	2010-04-16 16:02:09
Roscommon	146.58	2010-04-16 16:02:30
Saginaw	146.550	2012-04-21 05:47:54
Sanilac	146.430	2012-04-21 05:48:27
Schoolcraft	146.42	2010-04-20 04:14:57
Shiawassee	No Data	No Data
Saint Clair	146.58	2010-04-21 06:09:53
Saint Joseph	146.580	2012-05-09 07:27:41
Tuscola	145.525	2012-04-21 05:48:56
Van Buren	146.460	2012-05-19 06:46:23
Washtenaw	146.58	2010-04-21 06:09:42
Wayne	146.58	2010-04-21 06:09:21
Wexford	146.58	2010-04-16 16:02:54

For a map and current table of frequencies use the link below.

<http://ares-mi.org/freqMap.php>

National Weather Service

The National Weather Service is a component of the National Oceanic and Atmospheric Administration (NOAA), whose mission is to provide weather, water, and climate data, forecasts, and warnings for the protection of life and property and enhancement of the national economy. The National Weather Service supports several programs that enhance public safety include NOAA Weather Radio All Hazards (NWR), and SKYWARN.

The National Weather Service has four NWS Offices in Michigan. The offices are located in Detroit, Grand Rapids, Marquette, and Gaylord.

1.13. NOAA Weather Radio All Hazard (NWR)

The NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations that continuously broadcast weather information directly from the nearest National Weather Service office. In addition to official Weather Service warnings, watches, forecasts, and other hazard information NWR is also an “all hazards” radio network that broadcasts warnings and post-event information. NWR provides information about natural (such as earthquakes), environmental (such as chemical releases or oil spills) and public safety (such as AMBER alerts).

NWR broadcasts are on the VHF public service band at seven frequencies (MHz):

WX2	WX4	WX5	WX3	WX6	WX7	WX1
162.400	162.425	162.450	162.475	162.500	162.525	162.550

NWR County Coverage Listings for Michigan

Refer to the charts on the following pages for frequency, call sign and other information for NWR for Michigan by county. The “Remarks” column refers to the portion of the county covered by the listed frequency. “SAME #” is the Specific Area Message Encoding, the protocol used to encode the Emergency Alert System (EAS) and NWR in the U.S., as well as portions of Canada and Mexico.

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Alcona	026001	Alpena	KIG83	162.550	ALL
Alger	026003	Grand Marais	WZ2515	162.425	ALL
Alger	026003	Manistique	WNG684	162.525	ALL
Alger	026003	Marquette	KIG66	162.550	W 1/2
Alger	026003	Munising	WZ2514	162.475	ALL
Alger	026003	Newberry	WNG576	162.450	ALL
Allegan	026005	Grand Rapids	KIG63	162.550	ALL
Allegan	026005	Plainwell	WWF34	162.475	ALL
Allegan	026005	West Olive	WXN99	162.425	ALL
Alpena	026007	Alpena	KIG83	162.550	ALL
Antrim	026009	Traverse City	KIH22	162.400	ALL
Arenac	026011	West Branch	KXI33	162.450	ALL
Baraga	026013	Houghton	WXX73	162.400	ALL
Baraga	026013	Marquette	KIG66	162.550	E 1/2
Barry	026015	Grand Rapids	KIG63	162.550	ALL
Barry	026015	Plainwell	WWF34	162.475	ALL
Bay	026017	Flint	KIH29	162.475	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Benzie	026019	Traverse City	KIH22	162.400	ALL
Berrien	026021	Michigan City	KJY62	162.500	ALL
Berrien	026021	North Webster	KZZ36	162.500	ALL
Berrien	026021	Plainwell	WWF34	162.475	ALL
Berrien	026021	South Bend	WXJ57	162.400	ALL
Branch	026023	Angola	KXI94	162.425	ALL
Branch	026023	Onondaga	WXK81	162.400	ALL
Branch	026023	Plainwell	WWF34	162.475	ALL
Calhoun	026025	Onondaga	WXK81	162.400	ALL
Calhoun	026025	Plainwell	WWF34	162.475	ALL
Cass	026027	North Webster	KZZ36	162.500	ALL
Cass	026027	Plainwell	WWF34	162.475	ALL
Cass	026027	South Bend	WXJ57	162.400	ALL
Charlevoix	026029	Traverse City	KIH22	162.400	ALL
Cheboygan	026031	Petoskey	WNG572	162.475	ALL
Chippewa	026033	Newberry	WNG576	162.450	ALL
Chippewa	026033	Sault Ste Marie	KIG74	162.550	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Clare	026035	Mount Pleasant	KZZ33	162.525	ALL
Clinton	026037	Onondaga	WXX81	162.400	ALL
Crawford	026039	Gaylord	WWF70	162.500	ALL
Delta	026041	Escanaba	KZZ35	162.500	ALL
Delta	026041	Marquette	KIG66	162.550	ALL
Delta	026041	Sister Bay	WXN69	162.425	S
Dickinson	026043	Escanaba	KZZ35	162.500	ALL
Dickinson	026043	Marquette	KIG66	162.550	N 1/2
Eaton	026045	Onondaga	WXX81	162.400	ALL
Emmet	026047	Petoskey	WNG572	162.475	ALL
Genesee	026049	Flint	KIH29	162.475	ALL
Gladwin	026051	West Branch	KXI33	162.450	ALL
Gogebic	026053	Ashland	KZZ78	162.525	ALL
Gogebic	026053	Houghton	WXX73	162.400	ALL
Gogebic	026053	Marenisco	WNG683	162.550	ALL
Grand Traverse	026055	Traverse City	KIH22	162.400	ALL
Gratiot	026057	Mount Pleasant	KZZ33	162.525	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Hillsdale	026059	Adrian / Petersburg	WNG647	162.450	ALL
Hillsdale	026059	Angola	KXI94	162.425	ALL
Hillsdale	026059	Onondaga	W XK81	162.400	ALL
Houghton	026061	Houghton	W XK73	162.400	ALL
Huron	026063	Bad Axe	W NG701	162.525	ALL
Huron	026063	Flint	K IH29	162.475	ALL
Huron	026063	Sandusky	W NG582	162.450	ALL
Ingham	026065	Onondaga	W XK81	162.400	ALL
Ionia	026067	Grand Rapids	K IG63	162.550	ALL
Iosco	026069	West Branch	K XI33	162.450	ALL
Iron	026071	Crystal Falls	K JY76	162.475	ALL
Iron	026071	Marquette	K IG66	162.550	ALL
Isabella	026073	Mount Pleasant	K ZZ33	162.525	ALL
Jackson	026075	Adrian / Petersburg	W NG647	162.450	ALL
Jackson	026075	Onondaga	W XK81	162.400	ALL
Kalamazoo	026077	Plainwell	W WF34	162.475	ALL
Kalkaska	026079	Traverse City	K IH22	162.400	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Kent	026081	Grand Rapids	KIG63	162.550	ALL
Keweenaw	026083	Copper Harbor	WZ2513	162.500	ALL
Keweenaw	026083	Houghton	WXK73	162.400	ALL
Lake	026085	Wolf Lake	WNG672	162.425	ALL
Lapeer	026087	Flint	KIH29	162.475	ALL
Lapeer	026087	Sandusky	WNG582	162.450	ALL
Leelanau	026089	Traverse City	KIH22	162.400	ALL
Lenawee	026091	Adrian / Petersburg	WNG647	162.450	ALL
Lenawee	026091	Detroit	KEC63	162.550	ALL
Lenawee	026091	Toledo	WXL51	162.500	ALL
Livingston	026093	Detroit	KEC63	162.550	ALL
Livingston	026093	Onondaga	WXK81	162.400	ALL
Luce	026095	Newberry	WNG576	162.450	ALL
Mackinac	026097	Newberry	WNG576	162.450	ALL
Mackinac	026097	Sault Ste Marie	KIG74	162.550	E 1/2
Macomb	026099	Detroit	KEC63	162.550	ALL
Manistee	026101	Traverse City	KIH22	162.400	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Manistee	026101	Wolf Lake	WNG672	162.425	ALL
Marquette	026103	Marquette	KIG66	162.550	ALL
Mason	026105	Wolf Lake	WNG672	162.425	ALL
Mecosta	026107	Mount Pleasant	KZZ33	162.525	ALL
Mecosta	026107	Wolf Lake	WNG672	162.425	ALL
Menominee	026109	Escanaba	KZZ35	162.500	ALL
Menominee	026109	Marquette	KIG66	162.550	ALL
Menominee	026109	Sister Bay	WXN69	162.425	ALL
Menominee	026109	Wausaukee	WNG553	162.400	ALL
Midland	026111	Flint	KIH29	162.475	ALL
Midland	026111	Mount Pleasant	KZZ33	162.525	ALL
Missaukee	026113	Traverse City	KIH22	162.400	ALL
Monroe	026115	Adrian / Petersburg	WNG647	162.450	ALL
Monroe	026115	Detroit	KEC63	162.550	ALL
Monroe	026115	Toledo	WXL51	162.500	ALL
Montcalm	026117	Grand Rapids	KIG63	162.550	ALL
Montcalm	026117	Mount Pleasant	KZZ33	162.525	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Montmorency	026119	Alpena	KIG83	162.550	ALL
Muskegon	026121	Hesperia	WWF36	162.475	ALL
Muskegon	026121	West Olive	WXN99	162.425	ALL
Newaygo	026123	Hesperia	WWF36	162.475	ALL
Newaygo	026123	Wolf Lake	WNG672	162.425	ALL
Oakland	026125	Detroit	KEC63	162.550	ALL
Oceana	026127	Hesperia	WWF36	162.475	ALL
Oceana	026127	Wolf Lake	WNG672	162.425	ALL
Ogemaw	026129	West Branch	KXI33	162.450	ALL
Ontonagon	026131	Houghton	WXK73	162.400	ALL
Ontonagon	026131	Marenisco	WNG683	162.550	S C AND W
Osceola	026133	Mount Pleasant	KZZ33	162.525	ALL
Osceola	026133	Wolf Lake	WNG672	162.425	ALL
Oscoda	026135	Alpena	KIG83	162.550	ALL
Otsego	026137	Gaylord	WWF70	162.500	ALL
Ottawa	026139	Grand Rapids	KIG63	162.550	ALL
Ottawa	026139	West Olive	WXN99	162.425	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Presque Isle	026141	Alpena	KIG83	162.550	ALL
Roscommon	026143	West Branch	KXI33	162.450	ALL
Saginaw	026145	Flint	KIH29	162.475	ALL
Sanilac	026151	Flint	KIH29	162.475	ALL
Sanilac	026151	Sandusky	WNG582	162.450	ALL
Schoolcraft	026153	Manistique	WNG684	162.525	ALL
Schoolcraft	026153	Marquette	KIG66	162.550	ALL
Shiawassee	026155	Flint	KIH29	162.475	ALL
Shiawassee	026155	Onondaga	WXX81	162.400	ALL
St. Clair	026147	Detroit	KEC63	162.550	ALL
St. Clair	026147	Sandusky	WNG582	162.450	ALL
St. Joseph	026149	Angola	KXI94	162.425	ALL
St. Joseph	026149	North Webster	KZZ36	162.500	ALL
St. Joseph	026149	Plainwell	WWF34	162.475	ALL
St. Joseph	026149	South Bend	WXJ57	162.400	ALL
Tuscola	026157	Flint	KIH29	162.475	ALL
Van Buren	026159	Plainwell	WWF34	162.475	ALL

County	SAME #	NWR Transmitter	Call Sign	Frequency	Remarks
Washtenaw	026161	Adrian / Petersburg	WNG647	162.450	ALL
Washtenaw	026161	Detroit	KEC63	162.550	ALL
Wayne	026163	Detroit	KEC63	162.550	ALL
Wexford	026165	Traverse City	KIH22	162.400	ALL
Wexford	026165	Wolf Lake	WNG672	162.425	ALL

Emergency Alert System (NWS – SAME) Alert Codes

EMERGENCY ALERT SYSTEM EVENT	NWR - SAME Codes
Weather Related Events	
Blizzard Warning	BZW
Coastal Flood Watch	CFA
Coastal Flood Warning	CFW
Dust Storm Warning	DSW
Flash Flood Watch	FFA
Flash Flood Warning	FFW
Flash Flood Statement	FFS
Flood Watch	FLA
Flood Warning	FLW
Flood Statement	FLS
High Wind Watch	HWA
High Wind Warning	HWW
Hurricane Watch	HUA
Hurricane Warning	HUW
Hurricane Statement	HLS
Severe Thunderstorm Watch	SVA

EMERGENCY ALERT SYSTEM EVENT	NWR - SAME Codes
Severe Thunderstorm Warning	SVR
Severe Weather Statement	SVS
Special Marine Warning	SMW
Special Weather Statement	SPS
Tornado Watch	TOA
Tornado Warning	TOR
Tropical Storm Watch	TRA
Tropical Storm Warning	TRW
Tsunami Watch	TSA
Tsunami Warning	TSW
Winter Storm Watch	WSA
Winter Storm Warning	WSW
Non-Weather-Related Events National Codes Required	
Emergency Action Notification	EAN
Emergency Action Termination	EAT
National Information Center	NIC
State and Local Codes - Optional	
Avalanche Watch	AVA

EMERGENCY ALERT SYSTEM EVENT	NWR - SAME Codes
Avalanche Warning	AVW
Child Abduction Emergency	CAE
Civil Danger Warning	CDW
Civil Emergency Message	CEM
Earthquake Warning	EQW
Evacuation Immediate	EVI
Fire Warning	FRW
Hazardous Materials Warning	HMW
Law Enforcement Warning	LEW
Local Area Emergency	LAE
911 Telephone Outage Emergency	TOE
Nuclear Power Plant Warning	NUW
Radiological Hazard Warning	RHW
Shelter in Place Warning	SPW
Volcano Warning	VOW

1.14. SKYWARN

To obtain critical weather information, the National Oceanic & Atmospheric Administration (NOAA)'s National Weather Service (NWS) established SKYWARN. SKYWARN, a volunteer program, has nearly 290,000 trained severe weather spotters. NWS encourages anyone with an interest in public service and access to communications, such as HAM radio, to join the SKYWARN program.

Additional information about SKYWARN can be located through the National Weather Service at www.weather.gov/skywarn.

1.15. SKYWARN Michigan Groups

Information about Michigan SKYWARN groups can be located by selecting the group name from the list:

- [Upper Peninsula SKYWARN](#)
- [Genesee County – GC-ARPSC](#)
- [IMO SKYWARN - Indiana, Michigan, Ohio](#)
- [Jackson Cascades Amateur Radio Society](#)
- [Kent County SKYWARN](#)
- [Lansing/Ingham ARPSC](#)
- [Macomb County ARPSC](#)
- [Midwest Severe Storm Tracking Response Center](#)
- [Montcalm/Ionia SKYWARN](#)
- [Newaygo County West Michigan](#)
- [NSW Detroit/Pontiac](#)

- [NWS-Gaylord](#)
- [NWS-Grand Rapids](#)
- [NWS-Marquette](#)
- [NWS-Michigan SKYWARN Program](#)
- [Oakland County ARPSC](#)
- [Spotter Network – Nationwide](#)
- [Washtenaw County ARPSC](#)

Appendix A - Michigan Public Safety Communications Interoperability Board



















The Michigan Public Safety Communications System Advisory Board, created by Executive Order 2005-8 was transferred to the Department of Technology, Management, and Budget by Executive Order 2009-55 and renamed the Public Safety Interoperability Board. The Board adopts procedures governing the organization and operations of the Michigan Public Safety Communications System. In addition to other duties, the Board may recommend best practices and oversight mechanisms for the implementation of public safety communications systems interoperability and standards in Michigan.
















The Board is comprised of 16 members, including nine members appointed by the governor and seven voting ex officio members including:















- a. The employee within the Department of Technology, Management and Budget with principal administrative responsibilities for the Michigan Public Safety Communications System
- b. The office or employee within the Department of State Police with principal administrative responsibility for the state's emergency management operations
- c. The State Fire Marshal
- d. The Director of the Department of Community Health, or designee
- e. The Adjutant General, or designee
- f. The Director of the Department of Natural Resources and Environment, or designee
- g. The Director of the Department of Transportation, or designee

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Appendix B - Standard Phonetic Alphabet

Character	International Phonetic	LE Phonetic	Morse Code	Nautical	Sign
A	Alpha	Adam	• —		
B	Bravo	Boy	— • • •		
C	Charlie	Charles	— • — •		
D	Delta	David	— • •		
E	Echo	Edward	•		
F	Foxtrot	Frank	• • — •		
G	Golf	George	— — •		
H	Hotel	Henry	• • • •		
I	India	Ida	• •		

Character	International Phonetic	LE Phonetic	Morse Code	Nautical	Sign
J	Juliet	John	• - - -		
K	Kilo	King	- • -		
L	Lima	Lincoln	• - • •		
M	Mike	Mary	- -		
N	November	Nora	- •		
O	Oscar	Ocean	- - -		
P	Papa	Paul	• - - •		
Q	Quebec	Queen	- - • -		
R	Romeo	Robert	• - •		
S	Sierra	Sam	• • •		

Character	International Phonetic	LE Phonetic	Morse Code	Nautical	Sign
T	Tango	Tom	—		
U	Uniform	Union	••—		
V	Victor	Victor	•••—		
W	Whiskey	William	•— —		
X	X-ray	X-ray	—••—		
Y	Yankee	Young	—•— —		
Z	Zulu	Zebra	— —••		

Appendix C - Reference Source / Materials

SAFECOM

- <https://www.cisa.gov/safecom>

The National Emergency Communications Plan (NECP) is a strategic plan that sets goals and identifies key national priorities to enhance governance, planning, technology, training and exercises, and disaster communications capabilities. The NECP provides recommendations, including milestones, to help emergency response providers and relevant government officials make measurable improvements in emergency communications over the next three years.

National Public Safety Telecommunications Council (NPSTC)

- <https://www.npstc.org/>

NIFOG

- <https://www.cisa.gov/safecom/field-operations-guides>

The National Interoperability Field Operations Guide (NIFOG) is a technical reference for emergency communications planning and for radio technicians responsible for radios that will be used in disaster response. The NIFOG includes rules and regulations for use of nationwide and other interoperability channels, tables of frequencies and standard channel names, and other reference material; formatted as a pocket-sized guide for radio technicians to carry with them.

Federal Emergency Management Agency (FEMA)

- <https://www.fema.gov/>

The Department of Homeland Security Target Capability List (TCL) describes the capabilities related to the four homeland security mission areas: Prevent, Protect, Respond, and Recover. It defines and provides the basis for assessing preparedness. It also establishes national guidance for preparing the Nation for major all-hazards events, such as those defined by the National Planning Scenarios.

NIMS Integration Center

- <https://www.fema.gov/emergency-managers/nims>

The National Incident Management System (NIMS) provides a systematic, proactive approach to guide departments and agencies at all levels of government, nongovernmental organizations, and the private sector to work seamlessly to prevent, protect against, respond to, recover from, and mitigate the effects of incidents, regardless of cause, size, location, or complexity, in order to reduce the loss of life and property and harm to the environment.

FEMA 502-2 - National Incident Management System (NIMS) Incident Command System (ICS) Forms Booklet

- <https://training.fema.gov/EMIWeb/IS/ICSResource/assets/NIMS%20ICS%20Forms%20Booklet.v3.pdf>

This booklet is designed to assist emergency response personnel in the use of ICS and

corresponding documentation during incident operations. It is a companion document to the NIMS ICS Field Operations Guide (FOG), FEMA 502-1.

Michigan Public Safety Communications Interoperability Board

- <https://www.michigan.gov/mpscs/0,4640,7-184-67164---,00.html>

The Public Safety Communications Interoperability Board, Michigan's 800 MHz radio system and telecommunications network, provides statewide interoperability in digital clarity to its members throughout the state and adopts procedures governing the organization and operations of the Michigan Public Safety Communications System.

Appendix D - Incident Command System (ICS) Communication Forms

The forms are from the National Incident Management (NIMS) Incident Command System (ICS) Forms Booklet.

If you don't have these forms available for your use, they can be found at the following websites:

COMU Documents

- www.michigan.gov/comuwg
- <https://training.fema.gov/icsresource/icsforms.aspx>
- <https://training.fema.gov/emiweb/is/icsresource/assets/nims%20ics%20forms%20booklet.v3.pdf>

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Appendix E - Web Site Links

Organization	URL
American Radio Relay League (ARRL):	http://www.arrl.org
APCO International	https://www.apcointl.org
CASM	https://casm.dhs.gov
DHS OEC	https://www.cisa.gov/emergency-communications-division
FCC Enforcement Bureau	https://www.fcc.gov/enforcement
FCC Public Safety & Homeland Security Bureau	https://www.fcc.gov/public-safety-and-homeland-security
FCC Special Temporary Authority (STA)	https://www.fcc.gov/media/radio/special-temporary-authority
FCC ULS	https://www.fcc.gov/wireless/universal-licensing-system
FEMA	https://www.fema.gov/
Priority Telecommunications Services (GETS/WPS/TPS)	https://www.cisa.gov/about-pts
Michigan Communications Working Group	https://www.michigan.gov/comuwg
Michigan Emergency Management Assistance Compact	https://www.michigan.gov/msp/0,4643,7-123-69743-62078--,00.html

Organization	URL
Michigan MEDCOM Plan	https://www.michigan.gov/documents/mdhhs/MEDCOM_Plan_rev_2017_8CALL90_change_5.20.19_655708_7.pdf
National Emergency Communications Plan	https://www.cisa.gov/necp
National Incident Management (NIMS) Incident Command System (ICS) Forms Booklet	https://training.fema.gov/emiweb/is/icsresource/assets/nims%20ics%20forms%20booklet.v3.pdf
National Interagency Fire Center (NIFC):	https://www.nifc.gov
National Interagency Incident Communications Division	https://www.nifc.gov/resources/NIICD
National Regional Planning Council (NRPC)	http://www.nrpc.us
National Response Framework	https://www.fema.gov/emergency-managers/national-preparedness/frameworks/response
National Telecommunications & Information Admin (NTIA)	https://www.ntia.doc.gov
National Wildfire Coordinating Group (NWCG)	https://www.nwcg.gov
NIFOG	https://www.cisa.gov/safecom/field-operations-guides

Organization	URL
NIMS Information	https://www.fema.gov/emergency-managers/nims
National Public Safety Communications Council (NPSTC)	https://www.npstc.org/
Radio Reference	https://www.radioreference.com/
SAFECOM	https://www.cisa.gov/safecom

The links above were correct at the time of publication. Please check the COMU WG website for current links.
www.michigan.gov/comuwg

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Appendix F - General Rules and “Watch Out” Situations

General Rules of Use for Communications Equipment or Channels:

- Shall only be used for official business or emergency communications.
- Shall be consistent with Federal Communications Commission (FCC) or National Telecommunications and Information Administration (NTIA) Rules.
- Use during a Type 3, 2, or 1 incident shall be authorized by the COML of the incident.
- Verify that the interoperability channel is clear before transmitting to avoid interfering with the communications of another user.
- Rules and Guidelines of interoperable channels shall be followed when using those channels.
- Only users actively participating in the incident or authorized by a COML or COMC should monitor or transmit on a given channel / talk-group.
- Scanning across multiple channels is to be avoided when using interoperable communications.
- ALL voice radio communications are to be brief and concise.
- No obscene, indecent, or profane language shall be used on any channel.
- No use of nicknames, slang, or Citizens Band (CB) type handles shall be used on any interoperable channels.
- The appropriate authority shall immediately deal with unauthorized use of channels or equipment.
- Specific rules of use for specialized equipment must be known and followed when that equipment is put in use.
- Encryption shall not be used at any time on any state or national interoperability channel.
- Ground to Air Communications shall be coordinated with the COMC/COML. Airborne use of interoperable channels shall receive prior authorization from

COMC/COML.

Interoperable Communications “Watch Out” Situations

- Inadequate or no communication with crew members or supervisor.
- Users unfamiliar with radio system(s) or assigned radio functionality.
- Organizations in the system do not use the same vocabulary or terminology.
- Multiple conversations on the same talk-group or channel.
- Unable to communicate critical information due to radio congestion.
- High level of background noise (i.e., wind, generators, and power tools).
- Working in the deep interior of a building, parking garage, or underground.
- A single Communications Unit Leader has not been designated.
- Instructions and assignments for Comm Unit are not clear.
- Inadequate number of tactical channels available or assigned.
- Incident is using radio frequencies in more than one radio band.
- Multiple agencies performing radio programming at the incident.
- Different radio bands being used via console or gateway patch.
- Gateways must be monitored for problems such as “stuck keys”, intermodulation, etc.
- Multiple mobile gateways available at the incident.
- Mobile gateway devices being used in a strategic (wide-area rather than tactical (local)) environment.
- Dispatch to dispatch channel patching.

Appendix G - Cross-Border Operation of Portable Radios

STATEMENT OF INTENT OF THE FEDERAL COMMUNICATIONS COMMISSION OF THE UNITED STATES OF AMERICA AND THE DEPARTMENT OF INDUSTRY OF CANADA RELATED TO THE CROSS-BORDER OPERATION OF PORTABLE RADIOS BY PUBLIC SAFETY AGENCIES ALONG THE UNITED STATES-CANADA BORDER

Considering that discussions have taken place between the Federal Communications Commission and the Department of Industry of Canada (Industry Canada) (hereafter the “Agencies”) on improving cross-border public safety communications in areas along the United States-Canada border.

Considering that Article II of the 1952 Convention between Canada and the United States of America relating to the Operation by Citizens of either country of certain Radio Equipment of Stations in the Other Country (the Convention) permits certain cross-border communications by mobile radio stations installed in public safety vehicles.

Considering that public safety mobile communications have evolved since the Convention was drafted and now include the operation of portable radio units¹ (not limited to operation within public safety vehicles) that were not envisioned at the time the Convention was ratified.

Considering that public safety licensees are those that protect safety of life, health, or property (e.g., police, fire, and emergency medical services) as described by the Agencies in their relevant rules.

Taking the above into account, the Agencies intend to allow the use of portable radio units by public safety licensees of either country. Furthermore, the Agencies recognize that in the April 15, 1991 Exchange of Letters between the Department of Communications (now Industry Canada)

and the Federal Communications Commission, the Agencies concurred to suspend the requirement under the 1952 Convention for the registration and the issuance of a permit to terrestrial mobile radio units operating in the other country, provided such mobiles are under the control of a properly licensed terrestrial station in the country in which they are operating. Similarly, the agencies do not intend to require registration or the issuance of a permit for the operation of mobile or portable radio units by public safety licensees of either country, regardless of whether or not these radio units are under the control of a terrestrial station in the country in which they are operating, provided such radio units are properly licensed in their country of origin.

This document may be found at: <https://transition.fcc.gov//ib/sand/agree/files/CBPSC.pdf>

The 1952 Convention and Letters amending it may be found at: https://transition.fcc.gov/ib/sand/agree/can_nonbroad_agree.html

Appendix H - Public Safety Answering Points (PSAPs)

PSAP	County	Address	24/7 Phone
Alcona County Central Dispatch	Alcona	212 W. Main St. Harrisville, MI 48740	989-724-0911
Alger County Sheriff Department	Alger	101 E. Varnum St, Suite B Munising, MI 49862	906-387-4444
Allegan County Central Dispatch	Allegan	3271 122nd Ave Allegan, MI 49010	269-673-3899
Alpena County Central Dispatch	Alpena	720 W. Chisholm St, Suite 13 Alpena, MI 49707	989-354-9111
Antrim County Central Dispatch	Antrim	207 E. Cayuga St. 568 Bellaire, MI 49615	231-533-6335
Arenac County Central Dispatch	Arenac	126 N. Grove St. Standish, MI 48658	989-846-4561
Barry County Central Dispatch	Barry	2600 Nashville Road Hastings, MI 49058	269-948-4800
Bay County Central Dispatch	Bay	1228 Washington Ave. Bay City, MI 48708	989-892-9551
Benzie County Central Dispatch	Benzie	505 S. Michigan Ave. Beulah, MI 49617	231-882-4487
Berrien County Public Safety Communications Center	Berrien	2100 Empire Ave Benton Harbor, MI 49022	269-983-3060
Niles Police Department	Berrien	1600 Silverbrook Niles, MI 49120	269-683-1313
Branch County Central Dispatch	Branch	141 E. Chicago Road Coldwater, MI 49036	517-278-3091

PSAP	County	Address	24/7 Phone
Calhoun County Consolidated Dispatch Authority	Calhoun	315 W. Green St. Marshall, MI 49068	269-781-0911
Cass County Sheriff Department	Cass	130 N. Broadway Cassopolis, MI 49031	269-445-1560
Charlevoix, Cheboygan, Emmet Central Dispatch	Charlevoix	1694 S. US-131 Highway Petoskey, MI 49770	231-347-5911
Charlevoix, Cheboygan, Emmet Central Dispatch	Cheboygan	1694 S. US-131 Highway Petoskey, MI 49770	231-347-5911
Chippewa County Central Dispatch	Chippewa	4657 W. Industrial Park Drive Kincheloe, MI 49788	906-495-3312
Clare County Central Dispatch	Clare	255 W. Main St. Harrison, MI 48625	989-539-7166
Clinton County Central Dispatch	Clinton	100 E. State St., Suite 1400 St. Johns, MI 48879	989-224-6792
Crawford Emergency Central Dispatch	Crawford	202 W. Michigan Ave. Grayling, MI 49738	989-348-6341
Delta County Central Dispatch	Delta	1900 3rd Ave N. EsCANaba, MI 49829	906-786-5911
Dickinson County Central Dispatch	Dickinson	300 East D St. Iron Mountain, MI 49801	906-774-6262
Eaton County Central Dispatch	Eaton	911 Courthouse Drive Charlotte, MI 48813	517-543-4913
Charlevoix, Cheboygan, Emmet Central Dispatch	Emmet	1694 S. US-131 Hwy Petoskey, MI 49770	231-439-3300
Fenton Police Department	Genesee	311 S. Leroy St. Fenton, MI 48430	810-629-5311
Genesee County 911 Authority	Genesee	G-4481 Corunna Road Flint, MI 48532	810-732-4722

PSAP	County	Address	24/7 Phone
Gladwin County Central Dispatch	Gladwin	501 W. Cedar Ave. Gladwin, MI 48624	989-426-9284
Grand Traverse County Central Dispatch	Grand Traverse	400 Boardman Ave. Traverse City, MI 49684	231-922-4550
Gratiot County Central Dispatch	Gratiot	1375 County Farm Drive Ithaca, MI 48847	989-875-7505
Hillsdale County Central Dispatch	Hillsdale	204 Development Drive Hillsdale, MI 49242	517-439-9913
Huron County Central Dispatch	Huron	99 W. Soper Road Bad Axe, MI 48413	989-269-6421
Ingham County 911 Central Dispatch Center	Ingham	710 E. Jolly Road Lansing, MI 48910	517-272-6026
Ionia County Central Dispatch	Ionia	545 Apple Tree Drive Ionia, MI 48846	616-527-0400
Iosco County Central Dispatch	Iosco	1795 Pine Trail East Tawas, MI 48730	989-362-1430
Iron County Central Dispatch	Iron	2 South Sixth Street, Suite 2 Crystal Falls, MI 49920	906-875-6669
Central Michigan University	Isabella	1720 S. East Campus Drive Mt. Pleasant, MI 48859	989-774-3081
Isabella County Central Dispatch	Isabella	2010 E. Preston Mt. Pleasant, MI 48858	989-773-1000
Jackson County Sheriff Office Central Dispatch	Jackson	1715 Lansing Ave. Jackson, MI 49202	517-768-7901
Kalamazoo County Consolidated Dispatch Authority	Kalamazoo	7040 Stadium Dr. Kalamazoo, MI 49048	269-488-6628
Kalkaska County Central Dispatch	Kalkaska	605 N. Birch St. Kalkaska, MI 49646	231-258-3350

PSAP	County	Address	24/7 Phone
Grand Rapids Police Department	Kent	One Monroe Centre NW Grand Rapids, MI 49503	616-456-3434
Kent County Sheriff Department	Kent	701 Ball Ave NE Grand Rapids, MI 49503	616-632-6100
Lake County Central Dispatch	Lake	800 Tenth St., Suite 120 Baldwin, MI 49304	231-745-2711
Lapeer County Central Dispatch	Lapeer	2332 W. Genesee St. Lapeer, MI 48446	810-667-0292
Leelanau County	Leelanau	8525 E. Government Center Drive Suttons Bay, MI 49682	231-256-8800
Lenawee County Sheriff's Office	Lenawee	150 W. Maple St. Adrian, MI 49221	517-263-0524
Livingston County Central Dispatch	Livingston	300 S. Highlander Way Howell, MI 48843	517-546-9111
Center Line Department of Public Safety	Macomb	7070 E. Ten Mile Road Center Line, MI 48015	586-757-2200
Chesterfield Township Police Department	Macomb	46525 Continental Drive Chesterfield, MI 48047	586-949-2322
Macomb County Sheriff Department	Macomb	43565 Elizabeth Road Mt. Clemens, MI 48043	586-469-5502
Richmond Police Department	Macomb	36725 Division Road Richmond, MI 48062	586-727-4000
Romeo Police Department	Macomb	121 W. St. Clair Romeo, MI 48065	586-752-3587
SERESA	Macomb	18961 Common Roseville, MI 48066	586-777-6700
Shelby Township Police Department	Macomb	52530 Van Dyke Shelby Township, MI 48316	586-731-2121

PSAP	County	Address	24/7 Phone
Utica Police Department	Macomb	7550 Auburn Road Utica, MI 48317	586-731-2345
Warren Police Department	Macomb	29900 Civic Center Drive Warren, MI 48093	586-574-9111
Manistee County Central Dispatch	Manistee	1527 E. Parkdale Ave. Manistee, MI 49660	231-723-6241
Marquette County Central Dispatch	Marquette	180 US-41 East Negaunee, MI 49866	906-475-9912
Michigan State Police Negaunee Regional Dispatch	Marquette	180 US-41 East Negaunee, MI 49866	906-475-9922
Mason/Oceana 911	Mason	9160 N. Oceana Drive Pentwater, MI 49449	231-869-5858
Meceola Consolidated Central Dispatch Center	Mecosta	20701 Northland Drive Paris, MI 49338	231-796-4811
Menominee County Central Dispatch	Menominee	2509 10th St Menominee, MI 49858	906-863-6614
Midland County Central Dispatch	Midland	2727 Rodd Street Midland, MI 48640	989-839-6466
Missaukee County Sheriff Department	Missaukee	110 S. Pine, P.O. Box 800 Lake City, MI 49651	231-839-4338
Monroe County Central Dispatch	Monroe	987 S. Raisinville Road Monroe, MI 48162	734-243-7070
Montcalm County Central Dispatch	Montcalm	657 N. State St. Stanton, MI 48888	989-831-3500
Montmorency County Sheriff Department	Montmorency	11045 M-32 West Atlanta, MI 49709	989-785-4238
Muskegon County Central Dispatch	Muskegon	770 Terrace St. Muskegon, MI 49440	231-722-3524

PSAP	County	Address	24/7 Phone
Newaygo County Central Dispatch	Newaygo	1018 Newell Street White Cloud, MI 49349	231-689-5288
Berkley Department of Public Safety	Oakland	2395 Twelve Mile Road Berkley, MI 48072	248-541-9000
Birmingham Police Department	Oakland	151 Martin St. Birmingham, MI 48012	248-644-3405
Bloomfield Hills Department of Public Safety	Oakland	45 E. Long Lake Road Bloomfield Hills, MI 48304	248-644-4200
Bloomfield Township Police Department	Oakland	4200 S. Telegraph Road Bloomfield Hills, MI 48302	248-433-7755
Farmington Hills Police Department	Oakland	31655 W. Eleven Mile Road Farmington Hills, MI 48336	248-477-0911
Ferndale Police Department	Oakland	310 E. Nine Mile Road Ferndale, MI 48220	906-630-5986
Hazel Park Police Department	Oakland	111 E. Nine Mile Road Hazel Park, MI 48030	248-542-6161
Madison Heights Police Department	Oakland	280 W. Thirteen Mile Road Madison Heights, MI 48071	248-585-2100
Novi Police Department	Oakland	45125 W. Ten Mile Road Novi, MI 48375	248-348-7100
Oak Park Department of Public Safety	Oakland	13600 Oak Park Blvd. Oak Park, MI 48237	248-691-7520
Oakland County Sheriff	Oakland	1201 N. Telegraph Road Pontiac, MI 48341	248-858-4911
Rochester Police Department	Oakland	400 Sixth St. Rochester, MI 48307	248-651-9621
Royal Oak Police Department	Oakland	221 E. Third St. Royal Oak, MI 48067	248-246-3500

PSAP	County	Address	24/7 Phone
Southfield Public Safety	Oakland	26000 Evergreen Southfield, MI 48076	248-354-1010
Troy Police Department	Oakland	500 W. Big Beaver Road Troy, MI 48084	248-524-3477
Waterford Township Police Department	Oakland	5150 Civic Center Drive Waterford, MI 48329	248-618-7550
West Bloomfield Police Department	Oakland	4530 Walnut Lake Road West Bloomfield, MI 48325	248-682-9200
White Lake Township Police Department	Oakland	7525 Highland Road White Lake, MI 48383	248-698-4400
Mason/Oceana 911	Oceana	9160 N. Oceana Drive Pentwater, MI 49449	231-869-5858
Ogemaw County Central Dispatch	Ogemaw	205 S. Eighth St. West Branch, MI 48661	989-345-9911
Meceola Consolidated Central Dispatch Center	Osceola	20701 Northland Drive Paris, MI 49338	231-796-5765
Oscoda County Sheriff Department	Oscoda	301 Morenci Street Mio, MI 48647	989-826-3214
Michigan State Police - Gaylord	Otsego	563 S. Otsego Gaylord, MI 49735	989-732-5141
Ottawa County Central Dispatch	Ottawa	12101 Stanton St. West Olive, MI 49460	1-800-249-0911
Presque Isle Central Dispatch	Presque Isle	267 N. Second St. Rogers City, MI 49779	989-734-2156
Roscommon County Central Dispatch	Roscommon	101 Second St. Roscommon, MI 48653	989-275-0911
Saginaw County Central Dispatch	Saginaw	618 Cass St. Saginaw, MI 48602	989-797-4580

PSAP	County	Address	24/7 Phone
Sanilac County Central Dispatch	Sanilac	95 Dawson St. Sandusky, MI 48471	810-648-2000
Shiawassee County Central Dispatch	Shiawassee	201 E. McArthur St. Corunna, MI 48817	989-743-9111
Clay Township Police Department	St. Clair	4710 Pointe Tremble Road Algonac, MI 48001	810-794-9381
St. Clair County Central Dispatch	St. Clair	1170 Michigan Road Port Huron, MI 48060	810-985-8115
St. Joseph County Central Dispatch	St. Joseph	620 E. Main St. Centreville, MI 49032	269-467-4195
Tuscola County Central Dispatch	Tuscola	1303 Cleaver St. Caro, MI 48723	989-673-8738
Van Buren County Central Dispatch	Van Buren	205 S. Kalamazoo Paw Paw, MI 49079	269-657-3101
Chelsea Police Department	Washtenaw	311 S. Main St. Chelsea, MI 48118	734-475-9122
Eastern Michigan University Department of Public Safety	Washtenaw	1200 Oakwood St. Ypsilanti, MI 48197	734-487-1222
Milan Police Department	Washtenaw	35 Neckel Court Milan, MI 48160	734-439-1551
Saline Police Department	Washtenaw	100 N. Harris Saline, MI 48176	734-429-7911
University of Michigan DPSS Communications & Alarm Center	Washtenaw	1239 Kipke Drive Ann Arbor, MI 48109	734-547-3395
Washtenaw County Metro Dispatch	Washtenaw	2201 Hogback Road Ann Arbor, MI 48105	734-994-2911
Grosse Pointe Farms Department of Public Safety	Wayne - Conference of Eastern Wayne	90 Kerby Road Grosse Pointe Farms, MI 48236	313-885-2100

PSAP	County	Address	24/7 Phone
Grosse Pointe Park Department of Public Safety	Wayne - Conference of Eastern Wayne	15115 E. Jefferson Grosse Pointe Park, MI 48230	313-822-7400
Grosse Pointe Woods Department of Public Safety	Wayne - Conference of Eastern Wayne	20025 Mack Plaza Grosse Pointe Woods, MI 48236	313-343-2400
Harper Woods Police Department	Wayne - Conference of Eastern Wayne	19617 Harper Harper Woods, MI 48225	313-343-2530
Canton Public Safety Department	Wayne - Conference of Western Wayne	1150 S. Canton Center Canton, MI 48188	734-394-5439
Dearborn Heights Police Department	Wayne - Conference of Western Wayne	25637 Michigan Ave. Dearborn Heights, MI 48127	313-277-7409
Dearborn Unified Dispatch Center	Wayne - Conference of Western Wayne	16087 Michigan Ave. Dearborn, MI 48126	313-943-2201
Huron Township Police Department	Wayne - Conference of Western Wayne	36500 S. Huron Road New Boston, MI 48164	734-753-4411
Livonia Police Department	Wayne - Conference of Western Wayne	15050 Farmington Road Livonia, MI 48154	734-466-2470
Northville Township Department of Public Safety	Wayne - Conference of Western Wayne	41600 W. Six Mile Road Northville, MI 48167	248-349-9400
Plymouth Community Communications Center	Wayne - Conference of Western Wayne	9955 N. Haggerty Road Plymouth, MI 48170	734-354-3250
Redford Township Police Department	Wayne - Conference of Western Wayne	25833 Elsinore Redford, MI 48239	313-387-2553
Romulus Police Department	Wayne - Conference of Western Wayne	11165 Olive Street Romulus, MI 48174	734-941-8400
Van Buren Township Department of Public Safety	Wayne - Conference of Western Wayne	46425 Tyler Belleville, MI 48111	734-699-8930
Wayne County A/P Authority	Wayne - Conference of Western Wayne	31399 East Service Dr, Bldg. 610 Detroit, MI 48242	734-942-5212

PSAP	County	Address	24/7 Phone
Westland Police Department	Wayne - Conference of Western Wayne	36701 Ford Road Westland, MI 48185	734-722-9600
Detroit Police Department	Wayne - Detroit Service District	1301 3rd Avenue Suite 4N Detroit, MI 48226	313-596-2170
Hamtramck Police Department	Wayne - Detroit Service District	3401 Evaline Hamtramck, MI 48212	313-800-5280
Michigan State Police - Detroit Regional Communication Center	Wayne - Detroit Service District	1060 W. Fort St. Detroit, MI 48226	313-237-2450
Brownstown Township Police Department	Wayne - Downriver Community Conference/Mutual Aid	23125 King Road Brownstown, MI 48183	734-675-1300
Downriver Central Dispatch (Southgate, Wyandotte)	Wayne - Downriver Community Conference/Mutual Aid	2015 Biddle Ave. Wyandotte, MI 48192	734-324-4405
Ecorse Police Department	Wayne - Downriver Community Conference/Mutual Aid	3869 W. Jefferson Ecorse, MI 48229	313-381-0900
Flat Rock Police Department	Wayne - Downriver Community Conference/Mutual Aid	25500 Gibraltar Road Flat Rock, MI 48134	734-782-2496
Gibraltar Police Department	Wayne - Downriver Community Conference/Mutual Aid	29450 Munro Gibraltar, MI 48173	734-676-3737
Grosse Ile Township Police Department	Wayne - Downriver Community Conference/Mutual Aid	24525 Meridian Road Grosse Ile, MI 48138	734-676-7100
Melvindale Police Department	Wayne - Downriver Community Conference/Mutual Aid	3100 Oakwood Blvd Melvindale, MI 48122	313-429-1070
River Rouge Police Department	Wayne - Downriver Community Conference/Mutual Aid	10600 W. Jefferson River Rouge, MI 48218	313-842-8700
Riverview Police Department	Wayne - Downriver Community Conference/Mutual Aid	14100 Civic Park Dr. Riverview, MI 48193	734-281-4222
Rockwood Police Department	Wayne - Downriver Community Conference/Mutual Aid	32409 Fort St. Rockwood, MI 48173	734-379-5323

PSAP	County	Address	24/7 Phone
Taylor Police Department	Wayne - Downriver Community Conference/Mutual Aid	23515 Goddard Road Taylor, MI 48180	734-287-6611
Trenton Police Department	Wayne - Downriver Community Conference/Mutual Aid	2872 West Jefferson Trenton, MI 8183	734-676-3737
Woodhaven Police Department	Wayne - Downriver Community Conference/Mutual Aid	21869 West Road Woodhaven, MI 48183	734-676-7337
Wexford County Central Dispatch	Wexford	820 Carmel St Cadillac, MI 49601	231-779-9211

A current list of PSAPs can be found on the State 911 Committee's site at the link below.

https://www.michigan.gov/msp/0,4643,7-123-72297_47748---,00.html

Record of Changes

Change Number	Change Date	Description	Approved By
1	8/8/2016	Corrected Marine Channel 9	COMU WG
2	8/8/2016	Entered Marine Channel 22A	COMU WG
3	8/8/2016	Updated Eaton Co. Phone #	COMU WG
4	10/21/2016	FMDTAC2 Channel = 159.2700	COMU WG
5	10/21/2016	Updated MSP District Coordinators	MSP
6	6/14/2017	Document reformat and visual improvements	COMU WG
7	7/14/2017	Numerous content corrections	COMU WG
8	8/28/2017	Appendix I - Public Safety Answering Point (PSAPs)	COMU WG
9	9/8/2017	Added MSP Gateways to 2.6.1 and 2.6.6	MSP
10	1/14/2019	Numerous content corrections	COMU WG
11	2/19/2022	Numerous content corrections, new version 1.7	COMU WG

