

State of Illinois

Illinois Emergency Management Agency

Illinois Interoperability Field Operations Guide

December 2020



Common Responsibilities of All Deployed Responders

- ❖ Be prepared to deploy – have GO kit(s) ready
- ❖ Receive assignment – DO NOT self-deploy
 - Reporting location, time and travel route
 - Description of type and severity of incident
 - Instructions for communication while enroute
 - Monitor incident status while enroute
- ❖ Start an ICS214 to document activities
- ❖ Upon arrival, check in at correct location
- ❖ Receive briefing from immediate supervisor
- ❖ Gather information on current incident status
 - Copy of IAP, face-to-face, ICS201
 - Document current situation if necessary
- ❖ Document significant activities on ICS214
- ❖ Maintain asset accountability
- ❖ Brief, assign and manage subordinates, if any
- ❖ Work safely – ensure safety
- ❖ Participate in planning process if appropriate
- ❖ Keep systems operational – verify!
- ❖ Brief replacement prior to shift change
- ❖ Demobilize as directed – when and how

The *Illinois Interoperability Field Operations Guide (I²FOG)* is a collection of technical reference material to aid Illinois Communications Unit personnel in establishing communications solutions during emergency incidents and planned events. The ability of responders to communicate in real time is critical to establishing command and control at the scene of an incident.

The *I²FOG* condenses information from the *Illinois Tactical Interoperable Communications Plan (TICP)* and is consistent with the goals identified in the *Illinois Statewide Communications Interoperability Plan (SCIP)* and the vision statement of the U.S. Department of Homeland Security (DHS), wherein emergency responders can communicate as needed, on demand, and as authorized at all levels of government. This document is printed with US Homeland Security grant money.

This FOG contains nationwide and statewide interoperability channels that should be programmed into all public safety radios in the appropriate frequency band.

Thank you,

Matthew Miller
Statewide Interoperability Coordinator
Illinois Emergency Management Agency

IEMA Operations Center (24/7) – **217-782-7860**

Send corrections or suggestions to the SWIC SWIC@illinois.gov

Contents

INTEROPERABLE COMMUNICATIONS IN ILLINOIS	1
GENERAL RULES OF USE.....	1
INTEROPERABLE SYSTEMS.....	2
MAPS	4
ILLINOIS EMERGENCY MANAGEMENT AGENCY.....	4
LOCATIONS OF COMMS SUPPORT VEHICLES.....	6
ILLINOIS STATE POLICE DISTRICTS.....	7
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICTS.....	9
INCIDENT COMMUNICATIONS UNIT	11
COMMUNICATION UNIT LEADER POSITION CHECKLIST	13
INCIDENT COMMAND SYSTEM PLANNING FORMS	16
EMERGENCY SUPPORT FUNCTIONS (ESF)	18
INCIDENT PRIORITIZATION	19
ILLINOIS PROGRAMMING TEMPLATES	22
STARCOM21 / 700 / 800 MHZ INTEROPERABILITY TEMPLATES	23
VHF HIGH BAND INTEROPERABILITY TEMPLATES	26
UHF INTEROPERABILITY TEMPLATE	28
INTEROPERABLE CHANNELS AND TALKGROUPS	29
ILLINOIS VHF LOW BAND.....	31

ILLINOIS VHF HIGH BAND	32
ILLINOIS 700 MHZ SECURE	34
ILLINOIS STARCOM21	35
ILLINOIS STARCOM21 SECURE	37
NATIONAL VHF LOW BAND.....	38
NATIONAL VHF HIGH BAND	39
NATIONAL UHF	42
NATIONAL 700 MHZ	43
NATIONAL 800 MHZ	49
FEDERAL VHF	50
FEDERAL UHF.....	52
AUXILIARY COMMUNICATIONS (AUXCOMM).....	54
ILLINOIS AMATEUR RADIO REPEATERS	56
INTEROPERABILITY ASSETS	60
INTEROPERABILITY REPEATERS.....	60
GATEWAYS.....	70
RADIO CACHES.....	74
MOBILE COMMUNICATIONS UNITS (VEHICLES/TRAILERS).....	80
GENERATORS	105
INTEROPERABILITY POINTS OF CONTACT	108
TICP/FOG	108
IEMA OPERATIONS CENTER / STATE COMMUNICATIONS UNIT (COMU).....	108

STATEWIDE COMMUNICATIONS CENTERS	109
COMMUNICATIONS POINTS OF CONTACT	111
GENERAL REFERENCE INFORMATION	113
STANDARD PHONETIC ALPHABET	113
CTCSS / DCSS / NAC / TRUNKING CODES	117
NUMBER SYSTEMS	117
GLOSSARY	118

Interoperable Communications in Illinois

GENERAL RULES OF USE

NIMS / ICS / COML

Use of ICS as a component of NIMS is the standard in Illinois. This includes the designation of a Communication Unit Leader (COML) when appropriate.

Tactical Call Signs / Common Terminology

The Incident Commander/designee shall establish tactical call signs used for the incident. It is the responsibility of all users to refer to facilities and staff by the proper tactical call signs.

Plain Language (No 10-codes)

All communications shall be in plain language. Radio codes, acronyms, and abbreviations should be avoided as they may cause confusion among agencies. The reason for a request for assistance or backup should be clearly stated.

Unit Identifier

The proper identifier for any asset is the agency name followed by identifier/resource type (i.e., ISP Car 2-15 or Elgin Fire Engine 3).

Calling Another Unit

A user should call another user using the – “called unit from calling unit” format (also known as the **“hey you –it’s me” format**) using unit identifiers as shown above “ISP Car 2-15 from IEMA 3” followed by: “IEMA 3 from ISP Car 2-15, go ahead”

INTEROPERABLE SYSTEMS

This section documents the statewide systems and channels in addition to the National Interoperable Pool (NIP) channels available for use within the State.

STARCOM21

The Illinois Terrorism Taskforce (ITTF) approved STARCOM21 as the interoperable communications platform for statewide command, control, and support communications at major incidents and events, supporting established local, regional, and statewide communications systems.

Rules of Use

The following describes the use of the STARCOM21 interoperable talkgroups during normal operations (i.e. not during a state emergency declaration). During a state emergency declaration ALL interoperable talkgroups are assigned by the SWIC or their designee.

- IESMA talkgroup – used to notify and dispatch state and local emergency management agencies as well as non-governmental organizations. **Note:** This talkgroup is also the designated all-agency statewide hailing channel.
- ILEAS talkgroup – used to notify and dispatch state and local law enforcement agencies.

- MABAS talkgroup – used to notify and coordinate Fire, EMS, hazardous materials and technical rescue responses.
- Public Health talkgroup – used to notify and dispatch state and local public health agencies and hospitals
- IPWMAN talkgroup – used by the Illinois Public Works Mutual Aid Network.
- The remaining talkgroups in Zones BA and BB - used as coordinated by the State COMU. The Region ‘B’ talkgroups may be used for emergent incidents without prior coordination, however, a notification is required as soon as possible.
- Zone BZ Secure Talkgroups – Use of these talkgroups **REQUIRES** coordination by the State COMU

Conventional Channels

Consistent with their authorized uses as outlined in this guide, the Illinois and National conventional interoperable direct channels can be used as required, but coordination with the State COMU will help prevent interference and multiple users attempting to use the same channel within a given area. Conventional repeaters activated or deployed on the conventional interoperable pairs, and using an antenna in excess of 20 feet above ground, should coordinate its use with the State COMU for the same reasons.

Maps

ILLINOIS EMERGENCY MANAGEMENT AGENCY



There are eight IEMA regions in Illinois.

Region 2

1325 N Galena Ave
Dixon, IL 61021-1009
Phone: 815-288-1455
Fax: 815-288-5650

Region 3

1639 Champlain St.
Ottawa, IL 61350
Phone: 815-433-7161
Fax: 815-433-7165

Region 4

9511 W Harrison St.
Des Plaines, IL 60016-1563
Phone: 847-294-4717
Fax: 847-294-4715

Region 6

2200 South Dirksen Parkway
Springfield, IL 62703-4528
Phone: 217-782-0922
Fax: 217-558-4810

Region 7

2125 South First St., Ste 309
Champaign, IL 61820
Phone: 217-278-3535
Fax: 217-352-1316

Region 8

10045 Bunkum Road
Fairview Heights, IL 62208-1703
Phone: 618-394-2233
Fax: 618-394-2239

Region 9

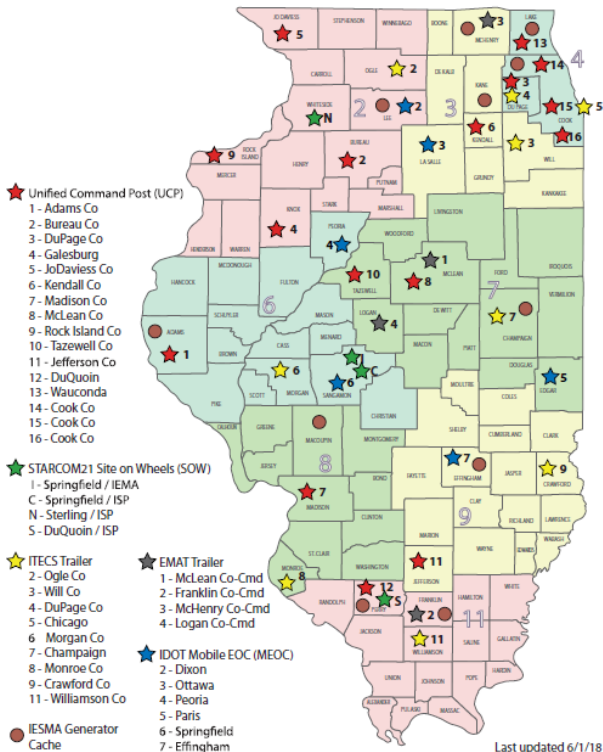
112 W Sixth St
Flora, IL 62839-1401
Phone: 618-662-4474
Fax: 618-662-4448

Region 11

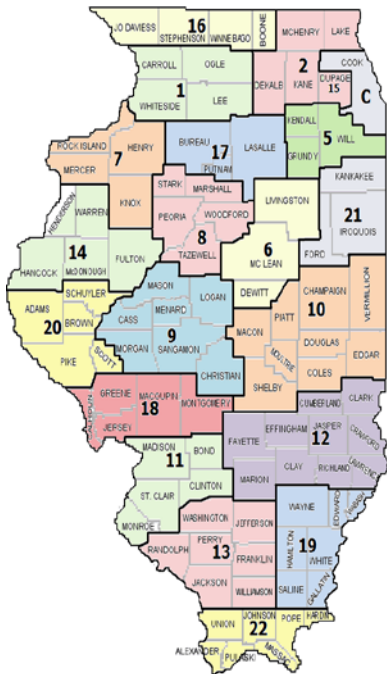
2309 W Main St., Ste 110
Marion, IL 62959-1196
Phone: 618-997-5847
Fax: 618-997-2642

LOCATIONS OF COMMS SUPPORT VEHICLES

Strategic Technology Reserves: Asset Locations by IEMA Region



ILLINOIS STATE POLICE DISTRICTS



There are 21 State Police districts in Illinois, including the Illinois State Toll Highway Authority. Each ISP District operates from a district headquarters.

District 1 Sterling

Phone: 815-632-4010

District 2 Elgin.

Phone: 847-294-4400

District Chicago Des Plaines

Phone: 847-294-4400

District 5 Joliet

Phone: 847-294-4400

District 6 Pontiac

Phone: 815-844-1500

District 7**Rock Island**

Phone: 815-632-4010

District 8**Peoria**

Phone: 309-383-2133

District 9**Springfield**

Phone: 217-786-6677

District 10**Pesotum**

Phone: 217-867-2050

District 11**Collinsville**

Phone: 618-346-3610

District 12**Effingham**

Phone: 217-342-7805

District 13**DuQuoin**

Phone: 618-542-2171

District 14**Macomb**

Phone: 309-833-4046

District 15 (Tollway)**Downers Grove**

Phone: 630-241-6800

District 16**Rockford**

Phone: 815-632-4010

District 17**LaSalle**

Phone: 815-632-4010

District 18**Litchfield**

Phone: 618-324-4900

District 19**Carmi**

Phone: 618-383-4606

District 20**Pittsfield**

Phone: 217-786-6677

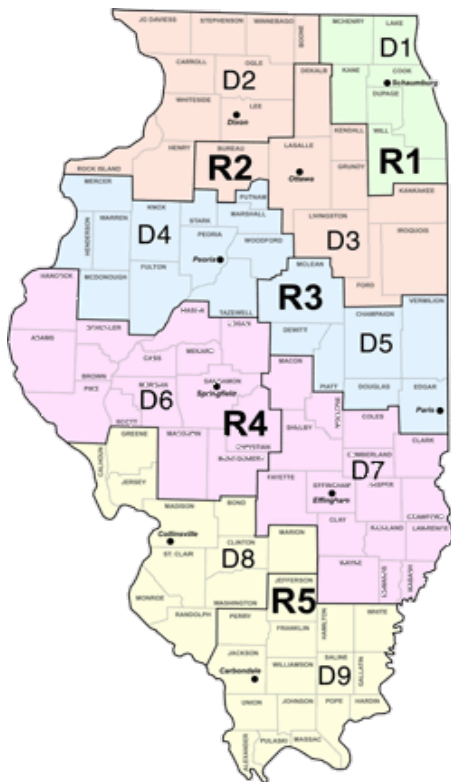
District 21**Ashkum**

Phone: 815-698-2415

District 22**Ullin**

Phone: 618-845-3740

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICTS



There are 9 Department of Transportation districts in Illinois. Each IDOT District operates from a district headquarters.

Headquarters Springfield

Phone: 217-782-2937

District 1 Schaumburg

Phone: 847-705-4602

District 2 Dixon

Phone: 815-284-5401

District 3 Ottawa

Phone: 815-434-8431

District 4 Peoria

Phone: 309-671-4487

District 5**Paris**

Phone: 217-466-7294

District 6**Springfield**

Phone: 217-782-7316

District 7**Effingham**

Phone: 217-342-8272

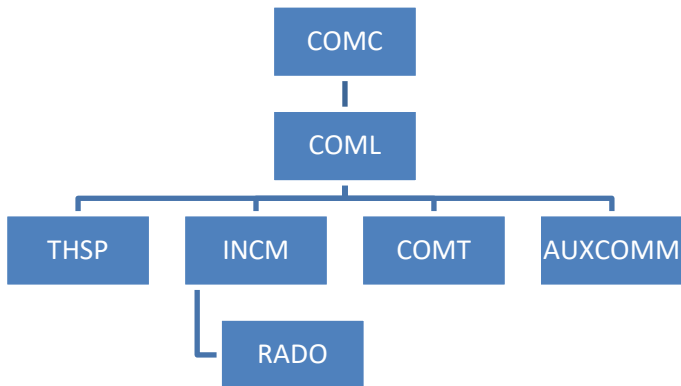
District 8**Collinsville**

Phone: 618-346-3237

District 9**Carbondale**

Phone: 618-351-5338

Incident Communications Unit



Communications Coordinator (COMC) –The COMC coordinates communications between and among dispatch centers and incident communication units within one or more affected areas. Locally, the jurisdictional dispatch center supervisor or dispatcher will act as the COMC when necessary. *For statewide activations the COMC is the communications officer sitting in the State Emergency Operations Center (SEOC).*

Communications Unit Leader (COML) – Manages the technical and operational aspects of the Communications function during an incident or event. Develops Incident Command System (ICS) Form

205 Incident Radio Communications Plan and supervises the Communication Unit.

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

Technical Specialist (THSP) –THSPs may include Local Agency Radio Technicians (as opposed to the COMT), Telephone Specialists, Gateway Specialists, Data/IT Specialists, and/or Cache Radio Specialists.

Incident Communications Center Manager (INCM) –Supervises the operational aspects of the Incident Communications Center (ICC).

Radio Operator (RADO) –Performs Telecommunicator duties at the ICC and is responsible for documenting incoming radio and telephone messages.

Auxiliary Communications (AUXCOMM) - Auxiliary Communications provides supplementary and backup communications utilizing the services of volunteer communicators.

COMMUNICATION UNIT LEADER POSITION CHECKLIST

Note that some tasks are one-time actions while others are ongoing or repeated during the incident. The term “Communication” may refer to radio systems, data/internet systems, or telephone systems.

1. Obtain briefing from appropriate ICS staff member (your supervisor)
2. Assess communications systems/frequencies and data systems in use – document if not already done
3. Organize and staff Communications Unit as appropriate:
 - Assign Incident Communications Center Manager (INCM), if necessary
 - Order and assign adequate staff (COMTs, RADOs, THSPs)
 - Brief incoming staff on current activities, duties, responsibilities and procedures
4. Establish safety procedures for personnel and ensure compliance
5. Participate in planning cycle meetings and briefings
6. Advise on communications capabilities/limitations
7. Coordinate all communication systems use with local, area or state Communications Coordinator (COMC) as appropriate
8. Develop/implement effective communications flow to/from the Incident Command Post (ICP)
9. Assess ICP telephone needs / request additional lines if necessary
10. Assess incident data requirements.
11. Prepare and implement Incident Radio Communications Plan (ICS 205):

- Obtain current organizational chart (ICS 203 or ICS 207)
 - Determine most hazardous tactical activity; ensure adequate communications
 - Make communications assignments for all other Operations Section elements
 - Determine Command and General Staff communications needs
 - Determine support (Logistics, Planning and Admin Sections) communications needs
 - Establish specific procedures for use of all communications equipment
 - Ensure communications and operational security is considered. Use encrypted channels and talkgroups where appropriate.
12. Ensure communications data on ICS 204 and ICS 206 is correct
13. Document cellular phones and pagers in Incident Communications Plan (ICS 205T), if appropriate:
- Determine specific organizational elements to be assigned telephones
 - Identify all facilities/locations needing telephone communications, identify/document phone numbers
 - Determine which phones/numbers should be used by what personnel and for what purpose. Assign specific telephone numbers for **incoming** calls, and report these numbers to staff and off-site parties
 - **Do Not publicize OUTGOING phone lines**
14. Activate, serve as contact point, integrate and supervise auxiliary communications units (AUXCOMM)

15. Ensure use of Communications Logs (ICS 309) for radio and telephone traffic
16. Determine need and availability of additional nets and systems:
 - Obtain copy of local Tactical Interoperable Communications Plan (TICP)
 - Order resources as appropriate after approval by Section Chief
17. Ensure that communications equipment operation is monitored continuously
18. Document malfunctioning communications equipment, facilitate repair
19. Establish and maintain communications equipment accountability system
20. Provide technical information, as required, on:
 - Adequacy of communications system currently in use
 - Geographic limitation on communications equipment
 - Equipment capabilities
 - Amount and types of equipment available
 - Anticipated problems in the use of communications
21. Estimate Communications Unit needs for expected operations; order relief personnel
22. Provide briefing to relief on current activities and unusual situations
23. Document all activity on Unit Log (ICS 214)
24. Communications and operational security must be considered during all stages of the incident.

INCIDENT COMMAND SYSTEM PLANNING FORMS

This section contains descriptions of common ICS forms that are used in communications planning or have communications information on them that is provided by the COML.

The only form developed by the Communication Unit that is included in the Incident Action Plan (IAP) is the ICS 205, Incident Radio Communications Plan. The other forms are used to develop the ICS 205 and are kept within the Communications Unit for reference. ICS 204, Field Assignment Form(s) and ICS 206, Incident Medical Plan contain communication data and should be verified/validated by the COML before publication.

Illinois-specific ICS forms in Microsoft Excel format are available from the Illinois SWIC upon email request to ema.scip@illinois.gov

FEMA has All-Hazards ICS forms at http://www.fema.gov/pdf/emergency/nims/ics_forms_2010.pdf

ICS 201 - Incident Briefing - Provides the basic information regarding the incident situation and resources allocated to the incident.

ICS 203 - Organization Assignment List - Provides ICS personnel with information on the units that are currently activated and the names of personnel staffing each position/unit

ICS 204 - Field Assignment Form - Lists Operations Section personnel and their incident assignments.

ICS 205 - Incident Radio Communications Plan – Provides information on the assignments for all communications equipment for each operational period.

ICS 206 - Medical Plan - Provides information on incident medical aid stations, transportation services, hospitals, and emergency medical procedures.

ICS 207 - Incident Organization Chart - Provides information on the response organization and personnel staffing.

ICS 211 - Incident Check-In List – Records personnel and equipment arriving at the incident at the various incident locations.

ICS 213 - General Message – Used for multiple purposes:

- By Incident dispatchers to record incoming messages which cannot be orally transmitted to the intended recipients.
- By EOC and other incident personnel to transmit messages via radio or telephone to the addressee.
- By Incident personnel to send any message or notification which requires hard-copy delivery to other incident personnel.

ICS 214 - Unit Log - Used to record details of unit.

ICS 217A - Communications Resource Availability – A listing of available communications channels and talkgroups, prepared in advance of an incident, that details the data required to complete an ICS 205.

ICS 309 - Communications Log – Documents radio traffic handled by the ICC. It is maintained by the RADO as traffic is handled.

EMERGENCY SUPPORT FUNCTIONS (ESF)

ESF #	Function	ESF#	Function
1	Transportation	9	Search and Rescue
2	Communications	10	Oil and Hazardous Materials Response
3	Public Works and Engineering	11	Agriculture and Natural Resources
4	Firefighting	12	Energy
5	Emergency Management	13	Public Safety and Security
6	Mass Care, Housing and Human Services	14	Long Term Community Recovery
7	Resource Support	15	External Affairs
8	Public Health and Medical Services		

Incident Prioritization

PRIORITIZATION AND SHARED USE OF INTEROPERABILITY ASSETS

Interoperable communications should be implemented with the following order of deployment in mind.

1. Leverage face-to-face communications wherever appropriate.
2. Employ local communications assets until those assets become taxed or inadequate based on the nature and/or scope of the incident.
3. Users of the STARCOM21 platform can utilize it to establish interoperable communications on common talkgroups.
4. If response agencies operate on disparate systems, use shared or mutual aid channels to establish interoperable communications.
5. If response agencies do not share systems or channels, use swap or cache radios to establish communications for responders.
6. Where interoperable communications cannot otherwise be established, use a gateway solution to establish interoperable communications.

7. Use non-public safety common carrier communications systems.
8. If no other method of interoperability is available, relay communications through staff members (runners).

When the same resources are requested for two or more incidents, resource assignments should be based on the priority levels listed below (in decreasing priority; i.e. lower number indicates a higher priority).

1. Incidents where imminent danger exists to life or property
2. Disasters, large scale incidents, or extreme emergencies requiring mutual aid or interagency communications
3. Incidents requiring the response of multiple agencies
4. Pre-planned 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 resources should be allocated with the following principles 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 interoperability options have priority use of those options over agencies with multiple interoperability options.
3. When possible, agencies already using an interoperability asset during an incident or event should not be redirected to another resource.

Illinois Programming Templates

The following pages contain the standard Illinois interoperability programming templates for 700/800 MHz Starcom21 capable radios, as well as VHF and UHF radios.

Illinois Interoperability Template - STARCOM21 / 700 / 800
Statewide Starcom21 Talkgroups (Zones BA - BB)
Conventional 800 MHz Interop Channels (Zone BC)
Conventional 700 MHz Interop Channels (Zones BD - BE)

		Zone				
		BA	BB	BC	BD	BE
Mode (Channel)	1	IESMA ²	RGN 2A	8CALL90D	7CAL50D	7MOB59D
	2	ILEAS	RGN 2B	8TAC91D	7TAC51D	7MOB59D ¹
	3	MABAS	RGN 3A	8TAC92D	7TAC52D	7LAW61D
	4	PUB HLTH	RGN 3B	8TAC93D	7TAC53D	7LAW62D
	5	IPWMAN	RGN 4A	8TAC94D	7TAC54D	7FIRE63D
	6	INCIDNT1	RGN 4B	8CALL90	7TAC55D	7FIRE64D
	7	INCIDNT2	RGN 6A	8TAC91	7TAC56D	7MED65D
	8	INCIDNT3	RGN 6B	8TAC92	7GTAC57D	7MED66D
	9	INCIDNT4	RGN 7A	8TAC93	7CAL50	7MOB59
	10	INCIDNT5	RGN 7B	8TAC94	7TAC51	7MOB59 ¹
	11	NORTH A	RGN 8A	-	7TAC52	7LAW61
	12	NORTH B	RGN 8B	-	7TAC53	7LAW62
	13	CENTER A	RGN 9A	-	7TAC54	7FIRE63
	14	CENTER B	RGN 9B	-	7TAC55	7FIRE64
	15	SOUTH A	RGN 11A	-	7TAC56	7MED65
	16	SOUTH B	RGN 11B	-	7GTAC57	7MED66

¹ Note this channel is repeated from the previous line and replaces the analog version of the channel which is no longer authorized.

² IESMA is the statewide hailing/calling talkgroup monitored by IEMA

Illinois Interoperability Template - STARCOM21 / 700 / 800
Conventional 700 MHz Interop Channels (Zones BF - BI)
Conventional 700 MHz Air-to-Ground Channels (Zone BJ)

		Zone				
		BF	BG	BH	BI	BJ ²
Mode (Channel)	1	7CAL70D	7MOB79D	7FTAC1D	7MTAC9D	7AG58D
	2	7TAC71D	7MOB79D ¹	7FTAC2D	7NTAC10D	7AG60D
	3	7TAC72D	7LAW81D	7FTAC3D	7NTAC11D	7AG67D
	4	7TAC73D	7LAW82D	7GTAC4D	7NTAC12D	7AG68D
	5	7TAC74D	7FIRE83D	7GTAC5D	7MTAC9	7AG78D
	6	7TAC75D	7FIRE84D	7LTAC6D	7NTAC10	7AG80D
	7	7TAC76D	7MED86D	7LTAC7D	7NTAC11	7AG85D
	8	7GTAC77D	7MED87D	7LTAC8D	7NTAC12	7AG88D
	9	7CAL70	7MOB79	7FTAC1	-	7AG58
	10	7TAC71	7MOB79 ¹	7FTAC2	-	7AG60
	11	7TAC72	7LAW81	7FTAC3	-	7AG67
	12	7TAC73	7LAW82	7GTAC4	-	7AG68
	13	7TAC74	7FIRE83	7GTAC5	-	7AG78
	14	7TAC75	7FIRE84	7LTAC6	-	7AG80
	15	7TAC76	7MED86	7LTAC7	-	7AG85
	16	7GTAC77	7MED87	7LTAC8	-	7AG88

¹ Note this channel is repeated from previous line and replaces the analog version of the channel which is no longer authorized.

² These channels are reserved for air-to-ground communications between low-altitude aircraft and ground-based stations (see FCC rule 90.531(7)). Airborne use is limited to below 1500 feet and 2 watts ERP. Aircraft may transmit on either the mobile or base transmit side of the channel pair.

Illinois Interoperability Template - STARCOM 21 / 700 / 800
 Conventional 700 MHz SECURE Interop Channels (Zone BY)
 Statewide Starcom21 SECURE Talkgroups (Zone BZ)

		Zone				
		BY ¹	BZ ¹			
Mode (Channel)	1	7MOB59DE	SECURE 1			
	2	7MOB79DE	SECURE 2			
	3	7LAW81DE	SECURE 3			
	4	7LAW82DE	SECURE 4			
	5	7FIRE83DE	SECURE 5			
	6	7FIRE84DE	SECURE 6			
	7	7MED86DE	SECURE 7			
	8	7MED87DE	SECURE 8			
	9	7MOB59E	SECLAW 1			
	10	7MOB79E	SECLAW 2			
	11	7LAW81E	SECFIR 1			
	12	7LAW82E	SECFIR 2			
	13	7FIRE83E	SECEMA 1			
	14	7FIRE84E	SECEMA 2			
	15	7MED86E	SECDOT 1			
	16	7MED87E	SECDOT 2	For Walt		

¹ SECURE ZONE BY and BZ. Assignment of talkgroups are coordinated through IEMA at 217.782.7860. **ONLY** use the current SIEC Mutual Aid AES 256 keys. Zone BZ talkgroups are not to be programmed into public safety communications centers (PSCC) except SECURE 1, SECURE 2, and SECURE 3.

Illinois Interoperability Template – VHF High Conventional VHF High Band Analog Channels

		Zone				
		EMA	LAW	MABAS	FIRE	EMS
Mode (Channel)	1	ESMARN	ISPERN	IFERN	IFERN	VMED28 ¹
	2	IEMA VHF1	IREACH	IFERN2	IFERN2	VMED29
	3	IREACH	VLAW31 ¹	IREACH	IREACH	IREACH
	4	-	VLAW32	REDFGND	VFIRE21 ¹	MERCI340
	5	VTAC33	VTAC33	WHTFGND	VFIRE22 ¹	MERCI400
	6	VTAC34	VTAC34	BLUFGND	VFIRE23 ¹	MERCI280
	7	VTAC35	VTAC35	GLDFGND	VFIRE24 ¹	MERCI220
	8	VTAC36	VTAC36	BLKFGND	VFIRE25 ¹	MERCI160
	9	VTAC37	VTAC37	GRYFGND	VFIRE26 ¹	-
	10	VCALL10	VCALL10	VCALL10	VCALL10	VCALL10
	11	VTAC11	VTAC11	VTAC11	VTAC11	VTAC11
	12	VTAC12	VTAC12	VTAC12	VTAC12	VTAC12
	13	VTAC13	VTAC13	VTAC13	VTAC13	VTAC13
	14	VTAC14	VTAC14	VTAC14	VTAC14	VTAC14
	15	VSAR16	VSAR16	VSAR16	VSAR16	VSAR16
	16	VTAC38	VTAC38	VTAC38	VTAC38	VTAC38

¹This channel is included for interstate interoperability. Its RF channel (but not necessarily its tone settings) duplicates one of the Illinois interoperability channels and is not available for general interoperability within Illinois.

**Illinois Interoperability Template – VHF High
Conventional VHF High Band, Analog & Digital, Federal Interop Channels**

		Zone			
		FED IR V ¹	FED LE V ¹		
Mode (Channel)	1	NC 1	LE A		
	2	IR 1	LE 1		
	3	IR 2	LE 2		
	4	IR 3	LE 3		
	5	IR 4	LE 4		
	6	IR 5	LE 5		
	7	IR 6	LE 6		
	8	IR 7	LE 7		
	9	IR 8	LE 8		
	10	IR 9	LE 9		
	11				
	12				
	13				
	14				
	15				
	16				

¹These channels are for interoperability with Federal agencies only. Do not use unless directed by a Federal agency.

Illinois Interoperability Template – UHF
Conventional UHF, Analog & Digital, National & Federal Interop Channels

		Zone				
		UTAC	FED IR U ¹	FED LE U ¹		
Mode (Channel)	1	UCALL40D	NC 2	LE B		
	2	UTAC41D	IR 10	LE 10		
	3	UTAC42D	IR 11	LE 11		
	4	UTAC43D	IR 12	LE 12		
	5	UCALL40	IR13	LE 13		
	6	UTAC41	IR 14	LE 14		
	7	UTAC42	IR 15	LE 15		
	8	UTAC43	IR 16	LE 16		
	9		IR 17	LE 17		
	10		IR 18	LE 18		
	11					
	12					
	13					
	14					
	15					
	16					

¹These channels are for interoperability with Federal agencies only. Do not use unless directed by a Federal agency.

Interoperable Channels and Talkgroups

NOTE: Programming data in the following tables are for subscriber (portable, mobile, control base) radios. Repeaters must be programmed with the listed transmit and receive data reversed.

Abbreviations & Definitions used in the following tables:

Eligible Users:

ALL – All Public Service

PS – All Public Safety

EM – Emergency Management Agencies

LE – Law Enforcement Agencies

FD – Fire Service Agencies

EMS – Emergency Medical Services

Technical Data:

CSQ – Carrier squelch receive

TONE – Receiver squelch systems:

- A decimal number indicates CTCSS
- A ‘D’ followed by an integer indicates DCSS
- A ‘\$’ followed by hexadecimal number indicates NAC (network access code)

NAC – Network access code used on P25

TG ID – Talkgroup ID in hexadecimal format

KEY – AES256 encryption key name. The numeric portion of the key name also indicates the Common Key Reference (CKR) number.

RX – Receiver parameters

TX – Transmitter parameters

FM – Frequency Modulation (Analog)

AM – Amplitude Modulation (Analog)

P25 – APCO Project 25 Digital Modulation (Digital)

Wideband – 25 kHz channel, digital or analog. *FM wideband utilizes maximum ± 5 kHz modulation (e.g. VHF low band, VHF Marine, 800 MHz interop, and Amateur FM).*

Narrowband – 12.5 kHz channel, digital or analog. *FM narrowband utilizes maximum ± 2.5 kHz modulation (e.g. most VHF high band, UHF, and 700/800 Public Safety FM channels).*

Other:

NWS – National Weather Service

SAR – Search and Rescue

Illinois Interop Channels – VHF Low Band
FM Analog, Wideband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
IEMA-1	45.44	45.44	103.5	103.5	EM	IEMA Command & Control ¹
IEMA-2	45.28	45.28	103.5	103.5	EM	Local Command & Control
IEMA-3	45.36	45.36	103.5	103.5	EM	Local Command & Control
IEMA-4	45.40	45.40	103.5	103.5	EM	Local Command & Control
LESERN	45.56	45.56	103.5	103.5	EM	Local Command & Control

¹ The IEMA Operations Center monitors the IEMA-1 channel 24/7.

Illinois Interop Channels – VHF High Band
FM Analog, Narrowband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
IREACH	155.0550	155.0550	D156	D156	PS	Interop
ESMARN	155.0250	155.0250	123.0	123.0	EM	Interop
IEMA VHF 1	155.9250	155.9250	CSQ	-	EM	Interop
ISPERN (RF=VLAW31) ³	155.4750	155.4750	CSQ	D156	LE	ISPERN Broadcasts Interop
POINT	155.3700	155.3700	CSQ	-	LE	Station to Station
IFERN (RF=VFIRE22) ³	154.2650	154.2650	CSQ ¹	210.7	FD	Mutual Aid Dispatch
IFERN2 (RF=VFIRE26) ³	154.3025	154.3025	CSQ ¹	67.0	FD	Alternate Mutual Aid Dispatch
REDFGND	153.8300	153.8300	CSQ ¹	69.3	FD	Fireground Ops
WHTFGND (RF=VFIRE21) ³	154.2800	154.2800	CSQ ¹	74.4	FD	Fireground Ops
BLUFGND (RF=VFIRE23) ³	154.2950	154.2950	CSQ ¹	85.4	FD	Fireground Ops
GLDFGND	153.8375	153.8375	91.5	91.5	FD	Fireground Ops
BLKFGND (RF=VFIRE24) ³	154.2725	154.2725	94.8	94.8	FD	Fireground Ops

Illinois Interop Channels – VHF High Band
FM Analog, Narrowband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
GRYFGND (RF=VFIRE25) ³	154.2875	154.2875	136.5	136.5	FD	Fireground Ops
MERCI160 (RF=VFIRE22) ³	155.1600	155.1600	CSQ	210.7	EMS	Ambulance-to-Hospital (EMS RGN 4)
MERCI220	155.2200	155.2200	CSQ	210.7	EMS	Ambulance Dispatch
MERCI280	155.2800	155.2800	CSQ	210.7	EMS	Hospital-to-Hospital & AIR to Ground coordination
MERCI340 (RF=VMED28) ³	155.3400	155.3400	CSQ ¹	210.7 ²	EMS	Ambulance-to-Hospital
MERCI400	155.4000	155.4000	CSQ	210.7	EMS	Ambulance-to-Hospital (EMS RGN 9 & 10)

¹ Some regions use a CTCSS code on RX. If unknown, leave RX as CSQ.

² Each receiving hospital has a unique CTCSS tone assigned, as well as the ability to listen to transmissions with a CTCSS of 210.7.

³ ISPERN and certain Fireground channels have the same RF frequency as the national interop channels, but use a different CTCSS tone.

Illinois SECURE Interop Channels – 700 MHz
P25 Digital, Narrowband, Conventional, Secure

NAME	FREQUENCY		NAC		KEY	USE	
	RX	TX	RX	TX		BY	FOR
7MOB59DE	770.89375	770.89375	\$F7E	\$293	SIEC1401	ALL	Interop
7MOB59E		800.89375					
7MOB79DE	774.50625	774.50625	\$F7E	\$293	SIEC1401	ALL	
7MOB79E		804.50625					
7LAW81DE	774.00625	774.00625	\$F7E	\$293	LAW1402	LE	
7LAW81E		804.00625					
7LAW82DE	774.35625	774.35625	\$F7E	\$293	LAW1402	LE	
7LAW82E		804.35625					
7FIRE83DE	773.50625	773.50625	\$F7E	\$293	FIRE1403	FS	
7FIRE83E		803.50625					
7FIRE84DE	773.85625	773.85625	\$F7E	\$293	FIRE1403	FS	
7FIRE84E		803.85625					
7MED86DE	773.00625	773.00625	\$F7E	\$293	FIRE1403	EMS	
7MED86E		803.00625					
7MED87DE	773.35625	773.35625	\$F7E	\$293	FIRE1403	EMS	
7MED87E		803.35625					

Illinois Interop Talkgroups - STARCOM21
P25 Digital, Phase 1 & 2, Trunked

NAME	TG ID	ZONE BA MODE	USE	
			BY	FOR
IESMA	\$7678	01	ALL	ONLY as coordinated by the State COMU
ILEAS	\$7679	02		
MABAS	\$767A	03		
Pub Hlth	\$767B	04		
IPWMAN	\$7683	05		
Incidnt1	\$767C	06		
Incidnt2	\$767D	07		
Incidnt3	\$767E	08		
Incidnt4	\$7684	09		
Incidnt5	\$7685	10		
North A	\$765C	11		
North B	\$7686	12		
Center A	\$765D	13		
Center B	\$7687	14		
South A	\$765E	15		
South B	\$7688	16		

Illinois Interop Talkgroups - STARCOM21
P25 Digital, Phase 1 & 2, Trunked

NAME	TG ID	ZONE BB MODE	USE	
			BY	FOR
RGN 2A	\$765F	01	ALL	ONLY as coordinated by the State COMU ¹
RGN 2B	\$7660	02		
RGN 3A	\$7661	03		
RGN 3B	\$7662	04		
RGN 4A	\$7663	05		
RGN 4B	\$7670	06		
RGN 6A	\$7671	07		
RGN 6B	\$7672	08		
RGN 7A	\$7673	09		
RGN 7B	\$7674	10		
RGN 8A	\$7675	11		
RGN 8B	\$7676	12		
RGN 9A	\$767F	13		
RGN 9B	\$7680	14		
RGN 11A	\$7681	15		
RGN 11B	\$7682	16		

¹The 'B' talkgroup may be used for emergent incidents prior to assignment, but notification must be made as soon as possible.

Illinois SECURE Interop Talkgroups - STARCOM21
P25 Digital, Phase 1 & 2, Trunked

NAME	TG ID	ZONE BZ MODE	KEY	USE	
				BY	FOR
SECURE 1	\$5961	01	SIEC1401	ALL ²	ONLY as coordinated by the State COMU ¹
SECURE 2	\$5962	02	SIEC1401	ALL ²	
SECURE 3	\$5963	03	SIEC1401	ALL ²	
SECURE 4	\$5964	04	SIEC1401	ALL	
SECURE 5	\$5965	05	SIEC1401	ALL	
SECURE 6	\$5966	06	SIEC1401	ALL	
SECURE 7	\$5967	07	SIEC1401	ALL	
SECURE 8	\$5968	08	SIEC1401	ALL	
SECLAW 1	\$5969	09	LAW1402	LE	
SECLAW 2	\$5970	10	LAW1402	LE	
SECFIR 1	\$5971	11	FIRE1403	FD	
SECFIR 2	\$5972	12	FIRE1403	FD	
SECEMA 1	\$5973	13	EMA1404	EMA	
SECEMA 2	\$5974	14	EMA1404	EMA	
SECDOT 1	\$5975	15	DOT1405	DOT	
SECDOT 2	\$5976	16	DOT1405	DOT	

¹ Use of this talkgroup REQUIRES coordination by the State COMU. Only the current SIEC Mutual Aid AES 256 keys are allowed. Actual keys must be loaded by a state-trusted key holder; Contact SWIC to locate a state-trusted keyholder.

² Only these three talkgroups may be used in dispatch consoles.

National Interop Channels - VHF Low Band
FM Analog, Wideband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
LLAW1D	39.4600	39.4600	156.7 ¹	156.7	LE	Interop
LLAW1		45.8600				
LFIRE2D	39.4800	39.4800	156.7 ¹	156.7	FD (Proposed)	
LFIRE2		45.8800				
LLAW3D	45.8600	45.8600	156.7 ¹	156.7	LE	
LLAW3		39.4600				
LFIRE4D	45.8800	45.8800	156.7 ¹	156.7	FD (Proposed)	
LFIRE4		39.4800				

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

National Interop Channels - VHF High
FM Analog, Narrowband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
VCALL10	155.7525	155.7525	156.7 ¹	156.7	PS	Calling
VTAC11	151.1375	151.1375	156.7 ¹	156.7	PS	Tactical
VTAC12	154.4525	154.4525	156.7 ¹	156.7	PS	
VTAC13	158.7375	158.7375	156.7 ¹	156.7	PS	
VTAC14	159.4725	159.4725	156.7 ¹	156.7	PS	
VTAC33 ² (VTAC36 Reversed)	159.4725 (RF=VTAC14)	151.1375 (RF=VTAC11)	156.7 ¹	136.5	PS	Tactical Repeater
VTAC34 ² (VTAC37 Reversed)	158.7375 (RF=VTAC13)	154.4525 (RF=VTAC12)	156.7 ¹	136.5	PS	
VTAC35 ² (VTAC38 Reversed)	159.4725 (RF=VTAC14)	158.7375 (RF=VTAC13)	156.7 ¹	136.5	PS	
VTAC36 ³ (PREFERRED)	151.1375 (RF=VTAC11)	159.4725 (RF=VTAC14)	156.7 ¹	136.5	PS	
VTAC37 ³ (PREFERRED)	154.4525 (RF=VTAC12)	158.7375 (RF=VTAC13)	156.7 ¹	136.5	PS	
VTAC38 ³	158.7375 (RF=VTAC13)	159.4725 (RF=VTAC14)	156.7 ¹	136.5	PS	

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

² VTAC 33-35 should be used ONLY if an unusual situation creates interference on VTAC 36-38.

³ VTAC36-37 are preferred due their wide transmit-receive frequency spread. Use VTAC38 only when necessary. Note the following when assigning direct channels in the vicinity of an active VTAC repeater:

Repeater Channel	Repeater Output Shared With	Repeater Input Shared With
VTAC36	VTAC11	VTAC14
VTAC37	VTAC12	VTAC13
VTAC38	VTAC13	VTAC14

National Public Safety Mutual Aid Channels² - VHF High FM Analog, Narrowband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
VFIRE21 ² (RF=IL WHTFGND)	154.2800	154.2800	156.7 ¹	156.7	FD	See Note 2 Below
VFIRE22 ² (RF=IL IFERN)	154.2650	154.2650	156.7 ¹	156.7	FD	
VFIRE23 ² (RF=IL BLUFGND)	154.2950	154.2950	156.7 ¹	156.7	FD	
VFIRE24 ² (RF=IL BLKFGND)	154.2725	154.2725	156.7 ¹	156.7	FD	
VFIRE25 ² (RF=IL GRYPGND)	154.2875	154.2875	156.7 ¹	156.7	FD	
VFIRE26 ² (RF=IL IFERN2)	154.3025	154.3025	156.7 ¹	156.7	FD	
VMED28 ² (RF=IL MERCI340)	155.3400	155.3400	156.7 ¹	156.7	EMS	
VMED29 ²	155.3475	155.3475	156.7 ¹	156.7	EMS	
VLAW31 ² (RF=IL ISPERN)	155.4750	155.4750	CSQ	156.7	LAW	
VLAW32 ²	155.4825	155.4825	156.7 ¹	156.7	LAW	
VSAR16 ² (RF=IL MERCI160)	155.1600	155.1600	127.3	127.3	PS	SAR

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ).

² This channel is included for interstate interoperability. Its RF channel (but not necessarily its tone settings) duplicates one of the Illinois interoperability channels, and **is not available for general interoperability within Illinois**. It is not a nationwide interoperability channel, and is not covered by the blanket nationwide interoperability authorization.

National Interop Channels - UHF
FM Analog, Narrowband, Conventional

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
UCALL40D	453.2125	453.2125	156.7 ¹	156.7	PS	Calling
UCALL40		458.2125				
UTAC41D	453.4625	453.4625	156.7 ¹	156.7	PS	Tactical
UTAC41		458.4625				
UTAC42D	453.7125	453.7125	156.7 ¹	156.7	PS	
UTAC42		458.7125				
UTAC43D	453.8625	453.8625	156.7 ¹	156.7	PS	
UTAC43		458.8625				

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

National Interop Channels - 700 MHz
P25 Digital, Narrowband, Conventional

NAME	FREQUENCY		NAC		USE		
	RX	TX	RX	TX	BY	FOR	
7CALL50D	769.24375	769.24375	\$F7E	\$293	PS	Calling	
7CALL50		799.24375					
7TAC51D	769.14375	769.14375	\$F7E	\$293	PS	Interop	
7TAC51		799.14375					
7TAC52D	769.64375	769.64375	\$F7E	\$293	PS		
7TAC52		799.64375					
7TAC53D	770.14375	770.14375	\$F7E	\$293	PS		
7TAC53		800.14375					
7TAC54D	770.64375	770.64375	\$F7E	\$293	PS		
7TAC54		800.64375					
7TAC55D	769.74375	769.74375	\$F7E	\$293	PS		
7TAC55		799.74375					
7TAC56D	770.24375	770.24375	\$F7E	\$293	PS		
7TAC56		800.24375					
7GTAC57D	770.99375	770.99375	\$F7E	\$293	ALL		
7GTAC57		800.99375					
7MOB59D	770.89375	770.89375	\$F7E	\$293	PS		Mobile Repeater
7MOB59		800.89375					
7LAW61D	770.39375	770.39375	\$F7E	\$293	LE	Interop	
7LAW61		800.39375					
7LAW62D	770.49375	770.49375	\$F7E	\$293	LE		
7LAW62		800.49375					
7FIRE63D	769.89375	769.89375	\$F7E	\$293	FD		
7FIRE63		799.89375					

National Interop Channels - 700 MHz
P25 Digital, Narrowband, Conventional

NAME	FREQUENCY		NAC		USE	
	RX	TX	RX	TX	BY	FOR
7FIRE64D	769.99375	769.99375	\$F7E	\$293	FD	Interop
7FIRE64		799.99375				
7MED65D	769.39375	769.39375	\$F7E	\$293	EMS	
7MED65		799.39375				
7MED66D	769.49375	769.49375	\$F7E	\$293	EMS	
7MED66		799.49375				
7DATA69D	770.74375	770.74375	\$F7E	\$293	PS	Mobile data
7DATA69		800.74375				
7CALL70D	773.25625	773.25625	\$F7E	\$293	PS	Calling Channel
7CALL70		803.25625				
7TAC71D	773.10625	773.10625	\$F7E	\$293	PS	Interop
7TAC71		803.10625				
7TAC72D	773.60625	773.60625	\$F7E	\$293	PS	
7TAC72		803.60625				
7TAC73D	774.10625	774.10625	\$F7E	\$293	PS	
7TAC73		804.10625				
7TAC74D	774.60625	774.60625	\$F7E	\$293	PS	
7TAC74		804.60625				
7TAC75D	773.75625	773.75625	\$F7E	\$293	PS	
7TAC75		803.75625				
7TAC76D	774.25625	774.25625	\$F7E	\$293	PS	
7TAC76		804.25625				
7GTAC77D	774.85625	774.85625	\$F7E	\$293	ALL	
7GTAC77		804.85625				
7MOB79D	774.50625	774.50625	\$F7E	\$293	PS	Mobile Repeater
7MOB79		804.50625				
7LAW81D	774.00625	774.00625	\$F7E	\$293	LE	Interop

National Interop Channels - 700 MHz
P25 Digital, Narrowband, Conventional

NAME	FREQUENCY		NAC		USE		
	RX	TX	RX	TX	BY	FOR	
7LAW81		804.00625					
7LAW82D	774.35625	774.35625	\$F7E	\$293	LE		
7LAW82		804.35625					
7FIRE83D	773.50625	773.50625	\$F7E	\$293	FD		
7FIRE83		803.50625					
7FIRE84D	773.85625	773.85625	\$F7E	\$293	FD		
7FIRE84		803.85625					
7MED86D	773.00625	773.00625	\$F7E	\$293	EMS		
7MED86		803.00625					
7MED87D	773.35625	773.35625	\$F7E	\$293	EMS		
7MED87		803.35625					
7DATA89D	774.75625	774.75625	\$F7E	\$293	PS		Mobile Data
7DATA89		804.75625					

National Interop Channels - 700 MHz Low Power
FM Analog, Narrowband, Conventional, Low Power

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
7FTAC1D ²	769.00625	769.00625	156.7 ¹	156.7	FD	Short-Range Interop
7FTAC1 ²		799.00625				
7FTAC2D ²	774.93125	774.93125	156.7 ¹	156.7	FD	
7FTAC2 ²		804.93125				
7FTAC3D ²	769.04375	769.04375	156.7 ¹	156.7	FD	
7FTAC3 ²		799.04375				
7GTAC4D ²	769.03125	769.03125	156.7 ¹	156.7	ALL	
7GTAC4 ²		799.03125				
7GTAC5D ²	774.95625	774.95625	156.7 ¹	156.7	ALL	
7GTAC5 ²		804.95625				
7LTAC6D ²	769.01875	769.01875	156.7 ¹	156.7	LE	
7LTAC6 ²		799.01875				
7LTAC7D ²	774.94375	774.94375	156.7 ¹	156.7	LE	
7LTAC7 ²		804.94375				
7LTAC8D ²	774.98125	774.98125	156.7 ¹	156.7	LE	
7LTAC8 ²		804.98125				
7MTAC9D ²	774.96875	774.96875	156.7 ¹	156.7	EMS	
7MTAC9 ²		804.96875				
7NTAC10D ²	769.05625	769.05625	156.7 ¹	156.7	ALL	
7NTAC10 ²		799.05625				
7NTAC11D ²	769.06875	769.06875	156.7 ¹	156.7	ALL	
7NTAC11 ²		799.06875				

National Interop Channels - 700 MHz Low Power
FM Analog, Narrowband, Conventional, Low Power

NAME	FREQUENCY		TONE		USE	
	RX	TX	RX	TX	BY	FOR
7NTAC12D ²	774.99375	774.99375	156.7 ¹	156.7	ALL	Short-Range Interop
7NTAC12 ²		804.99375				

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

² Although these channels are available nationwide, the names were established by the Region 13 and 54 Planning Committees in a format similar to the national interop channels, and may or may not match names used outside Illinois.

National Air-to-Ground Channels - 700 MHz
P25 Digital, Narrowband, Conventional

NAME	FREQUENCY		NAC		USE	
	RX	TX	RX	TX	BY	FOR
7AG58D	769.13125	769.13125	\$F7E	\$293	PS	Air – Ground ¹
7AG58		799.13125				
7AG60D	769.63125	769.63125	\$F7E	\$293	PS	
7AG60		799.63125				
7AG67D	770.13125	770.13125	\$F7E	\$293	PS	
7AG67		800.13125				
7AG68D	770.63125	770.63125	\$F7E	\$293	PS	
7AG68		800.63125				
7AG78D	773.11875	773.11875	\$F7E	\$293	PS	
7AG78		803.11875				
7AG80D	773.61875	773.61875	\$F7E	\$293	PS	
7AG80		803.61875				
7AG85D	774.11875	774.11875	\$F7E	\$293	PS	
7AG85		804.11875				
7AG88D	774.61875	774.61875	\$F7E	\$293	PS	Landing Zone ¹
7AG88		804.61875				

¹ These channels are reserved for air-to-ground communications between low-altitude aircraft and ground-based stations (see FCC rule 90.531(7)). Airborne use is limited to below 1500 feet and 2 watts ERP. Aircraft may transmit on either the mobile or base transmit side of the channel pair.

National Interop Channels – 800 MHz
FM Analog, Wideband², Conventional

NAME	FREQUENCY		TONE		ELIGIBLE USES	
	RX	TX	RX	TX	BY	FOR
8CALL90D	851.0125	851.0125	156.7 ¹	156.7	PS	Calling
8CALL90		806.0125				
8TAC91D	851.5125	851.5125	156.7 ¹	156.7	PS	Interop
8TAC91		806.5125				
8TAC92D	852.0125	852.0125	156.7 ¹	156.7	PS	
8TAC92		807.0125				
8TAC93	852.5125	852.5125	156.7 ¹	156.7	PS	
8TAC93D		807.5125				
8TAC94D	853.0125	853.0125	156.7 ¹	156.7	PS	
8TAC94		808.0125				

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

² FM deviation on these channels should be set to ± 4 kHz to avoid adjacent channel interference.

**Federal Incident Response Channels – VHF High
FM Analog, Narrowband, Conventional**

These channels are for interoperability with Federal agencies only. Do not use unless directed by a Federal agency.

NAME	FREQUENCY		TONE		FEDERAL AGENCY INTEROP PRIMARY USE
	RX	TX	RX	TX	
NC 1	169.5375	164.7125	167.9 ¹	167.9	Incident Calling Repeater
IR 1	170.0125	165.2500	167.9 ¹	167.9	Incident Command Repeater
IR 2	170.4125	165.9625	167.9 ¹	167.9	Med Evac Control Repeater
IR 3	170.6875	166.5750	167.9 ¹	167.9	Logistics Control Repeater
IR 4	173.0375	167.3250	167.9 ¹	167.9	Interagency Convoy Repeater
IR 5 (NC 1 Direct)	169.5375	169.5375	167.9 ¹	167.9	Incident Calling Direct
IR 6 (IR 1 Direct)	170.0125	170.0125	167.9 ¹	167.9	Incident Command Direct
IR 7 (IR 2 Direct)	170.4125	170.4125	167.9 ¹	167.9	Med Evac Control Direct
IR 8 (IR 3 Direct)	170.6875	170.6875	167.9 ¹	167.9	Logistics Control Direct
IR 9 (IR 4 Direct)	173.0375	173.0375	167.9 ¹	167.9	Interagency Convoy Direct

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

Federal Law Enforcement Channels – VHF High

FM Analog, Narrowband (LE A, LE1)

P25 Digital, Narrowband (LE2–LE9)

These channels are for interoperability with Federal agencies only. Do not use unless directed by a Federal agency.

NAME	FREQUENCY		TONE		FEDERAL AGENCY INTEROP PRIMARY USE
	RX	TX	RX	TX	
LE A	167.0875	167.0875	167.9 ¹	167.9	Direct Calling
LE 1	167.0875	162.0875	167.9 ¹	167.9	Tactical Repeater
LE 2	167.2500	162.2625	\$68F	\$68F	
LE 3	167.7500	162.8375	\$68F	\$68F	
LE 4	168.1125	163.2875	\$68F	\$68F	
LE 5	168.4625	163.4250	\$68F	\$68F	
LE 6 (LE 2 Direct)	167.2500	167.2500	\$68F	\$68F	Direct Tactical
LE 7 (LE 3 Direct)	167.7500	167.7500	\$68F	\$68F	
LE 8 (LE 4 Direct)	168.1125	168.1125	\$68F	\$68F	
LE 9 (LE 5 Direct)	168.4625	168.4625	\$68F	\$68F	

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

Federal Incident Response Channels - UHF

FM Analog, Narrowband, Conventional

These channels are for interoperability with Federal agencies only. Do not use unless directed by a Federal agency.

NAME	FREQUENCY		TONE		FEDERAL AGENCY INTEROP PRIMARY USE
	RX	TX	RX	TX	
NC 2	410.2375	419.2375	167.9 ¹	167.9	Repeater Incident Calling
IR 10	410.4375	419.4375	167.9 ¹	167.9	Tactical Repeater Ad hoc assignment
IR 11	410.6375	419.6375	167.9 ¹	167.9	Tactical Repeater Ad hoc assignment
IR 12	410.8375	419.8375	167.9 ¹	167.9	Tactical Repeater SAR Incident Command
IR13	413.1875	413.1875	167.9 ¹	167.9	Direct Tactical Ad hoc assignment
IR 14	413.2125	413.2125	167.9 ¹	167.9	Direct Tactical Interagency Convoy
IR 15 (NC 2 Direct)	410.2375	410.2375	167.9 ¹	167.9	Direct Tactical Incident Calling
IR 16 (IR 10 Direct)	410.4375	410.4375	167.9 ¹	167.9	Direct Tactical Ad hoc assignment
IR 17 (IR 11 Direct)	410.6375	410.6375	167.9 ¹	167.9	Direct Tactical Ad hoc assignment
IR 18 (IR 12 Direct)	410.8375	410.8375	167.9 ¹	167.9	Direct Tactical SAR Incident Command

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive.

Federal Law Enforcement Channels - UHF
FM Analog, Narrowband (LE B, LE10, LE16)
P25 Digital, Narrowband (LE10–LE15, LE17-LE18)

These channels are for interoperability with Federal agencies only. Do not use unless directed by a Federal agency.

NAME	FREQUENCY		TONE		FEDERAL AGENCY INTEROP PRIMARY USE
	RX	TX	RX	TX	
LE B	414.0375	414.0375	167.9 ¹	167.9	Direct Calling
LE 10	409.9875	418.9875	167.9 ¹	167.9	Tactical Repeater
LE 11	410.1875	419.1875	\$68F	\$68F	Tactical Repeater
LE 12	410.6125	419.6125	\$68F	\$68F	
LE 13	414.0625	414.0625	\$68F	\$68F	Direct Tactical
LE 14	414.3125	414.3125	\$68F	\$68F	
LE 15 (LE B Direct)	414.3375	414.3375	\$68F	\$68F	
LE 16 (LE 10 Direct)	409.9875	409.9875	167.9 ¹	167.9	Direct Tactical
LE 17 (LE 11 Direct)	410.1875	410.1875	\$68F	\$68F	Direct Tactical
LE 18 (LE 12 Direct)	410.6125	410.6125	\$68F	\$68F	

¹ CTCSS Tones – Default operation should be carrier squelch receive (CSQ). If the user can enable/disable CTCSS without programming the radio, the indicated CTCSS tone may be programmed for receive, and the user instructed how and when to enable/disable. Enabling CTCSS on receive is particularly important if the radio is being connected to a gateway.

Auxiliary Communications (AUXCOMM)

AuxComm consists of organizations and personnel that provide various types of communications support to emergency management, public safety, and other government agencies.

AMATEUR RADIO EMERGENCY SERVICES (ARES)

A program of the American Radio Relay League (ARRL), ARES consists of amateur radio operators who volunteer to provide emergency communications when needed.

RADIO AMATEUR CIVIL EMERGENCY SERVICE (RACES)

RACES is a volunteer organization of licensed amateur radio operators registered with and administered by the local (county) emergency management organization to provide auxiliary emergency communications on behalf of local, state or federal government.

Illinois AuxComm Amateur Frequencies

NAME	FREQUENCY		MODE	PRIMARY USE
	RX	TX		
3905	3.90500	3.90500	LSB	Primary HF
7230	7.23000	7.23000	LSB	Secondary HF
IDEN	145.61000	145.61000	FM Packet 1200 Baud	WINLINK
IL2A	146.52000	146.52000	FM (Wideband)	Nationwide Calling
IL2B	147.52500	147.52500	FM (Wideband)	
IL2C	147.57000	147.57000	FM (Wideband)	
ILUHFA	446.00000	446.00000	FM (Wideband)	Nationwide Calling
ILUHFB	446.40000	446.40000	FM (Wideband)	
ILUHFC	446.70000	446.70000	FM (Wideband)	For Fritz

Note: Transmitting on amateur radio frequencies requires an appropriately licensed amateur radio operator. Refer to FCC Rules, Part 97, or the American Radio Relay League for more detailed information

ILLINOIS AMATEUR RADIO REPEATERS

Illinois has many Amateur Radio repeaters that can be used by licensed amateur radio operators to support all-hazards incidents. Those listed below are suggested as an initial coordination and hailing channel. Additional information on other local repeaters may be obtained by visiting www.ilra.net or www.repeaterbook.com.

Illinois Amateur VHF / UHF Repeaters					
FM Analog, Wideband					
COUNTY	FREQUENCY		TONE		CALLSIGN
	RX	TX	RX	TX	
Adams	146.94000	146.34000	123.0	123.0	W9AWE
Alexander	147.09000	147.69000	CSQ	88.5	W9RNM
Bond	147.16500	147.76500	CSQ	103.5	AD9OV
Boone	444.87500	449.87500	CSQ	114.8	K9XD
Brown					
Bureau	146.95500	146.35500	103.5	103.5	N9UEJ
Calhoun	147.30000	147.90000	CSQ	(None)	ND2D
Carroll	147.13500	147.73500	CSQ	107.2	N9FID
Cass	146.71500	146.11500	103.5	103.5	W9ACU
Champaign	146.76000	146.16000	162.2	162.2	K9CU
Christian	147.39000	147.99000	203.5	203.5	WB9QPM
Clark					
Clay	146.70000	146.10000	103.5	103.5	AI9F
Clinton	147.21000	147.81000	CSQ	79.7	KT9TR
Coles	147.39000	147.99000	203.5	203.5	WB9QPM
Cook	444.87500	449.87500	CSQ	114.8	K9XD
Crawford					
Cumberland	147.39000	147.99000	203.5	203.5	WB9QPM
DeKalb	444.87500	449.87500	CSQ	114.8	K9XD
De Witt					
Douglas	444.37500	449.37500	CSQ	192.8	WA9WOB
DuPage	444.87500	449.87500	CSQ	114.8	K9XD

Illinois Amateur VHF / UHF Repeaters

FM Analog, Wideband

COUNTY	FREQUENCY		TONE		CALLSIGN
	RX	TX	RX	TX	
Edgar					
Edwards					
Effingham	146.89500	146.29500	CSQ	110.9	K9UXZ
Fayette	147.39000	147.99000	203.5	203.5	WB9QPM
Ford	444.82500	449.82500	CSQ	103.5	K9TA
Franklin	146.88000	146.28000	CSQ	88.5	WS9CAN
Fulton	147.28500	147.88500	CSQ	103.5	K9ILS
Gallatin	146.88000	146.28000	CSQ	88.5	WS9CAN
Greene					
Grundy	444.87500	449.87500	CSQ	114.8	K9XD
Hamilton	146.88000	146.28000	CSQ	88.5	WS9CAN
Hancock	145.25000	144.65000	CSQ	151.4	KC9JIC
Hardin	146.88000	146.28000	CSQ	88.5	WS9CAN
Henderson					
Henry	146.88000	146.28000	CSQ	77.0	W0BXR
Iroquois	147.03000	147.63000	CSQ	103.5	AD9L
Jackson	147.09000	147.69000	CSQ	88.5	W9RNM
Jasper	145.49000	144.49000	CSQ	72.9	K9ZN
Jefferson	147.09000	147.69000	CSQ	88.5	W9RNM
Jersey	145.31000	144.71000	CSQ	79.7	N9YN
Jo Daviess	147.33000	147.93000	CSQ	250.3	W9SBA
Johnson	146.88000	146.28000	CSQ	88.5	WS9CAN
Kane	444.87500	449.87500	CSQ	114.8	K9XD
Kankakee	146.94000	146.35000	107.2	107.2	W9AZ
Kendall	145.15000	144.55000	103.5	103.5	WX9KRC
Knox	147.00000	146.40000	CSQ	103.5	W9GFD
Lake	444.87500	449.87500	CSQ	114.8	K9XD
LaSalle	444.87500	449.87500	CSQ	114.8	K9XD
Lawrence					
Lee	146.97000	146.37000	82.5	82.5	N9JWI
Livingston	147.39000	147.99000	CSQ	127.3	WB9DUC
Logan	145.39000	144.79000	CSQ	94.8	N9NWI

Illinois Amateur VHF / UHF Repeaters

FM Analog, Wideband

COUNTY	FREQUENCY		TONE		CALLSIGN
	RX	TX	RX	TX	
McDonough	147.06000	147.66000	CSQ	103.5	W9SSP
McHenry	444.87500	449.87500	CSQ	114.8	K9XD
McLean	146.94000	146.34000	CSQ	156.7	W9AML
Macon	147.39000	147.99000	203.5	203.5	WB9QPM
Macoupin	146.86500	146.26500	CSQ	94.8	K9MCE
Madison	145.23000	144.63000	CSQ	79.7	K9HAM
Marion	147.27000	147.87000	103.5	103.5	W9CWA
Marshall	147.18000	147.78000	CSQ	103.5	WB9NNS
Mason					
Massac	146.88000	146.28000	CSQ	88.5	WS9CAN
Menard	147.04500	147.64500	CSQ	103.5	W9DUA
Mercer					
Monroe	145.43000	144.83000	CSQ	127.3	N9OMD
Montgomery	147.39000	147.99000	203.5	203.5	WB9QPM
Morgan	146.77500	146.17500	103.5	103.5	K9JX
Moultrie	147.39000	147.99000	203.5	203.5	WB9QPM
Ogle	147.16500	147.76500	146.2	146.2	N9ST
Peoria	147.33000	147.93000	CSQ	103.5	WX9PIA
Perry	147.09000	147.69000	CSQ	88.5	W9RNM
Piatt	145.41000	144.81000	CSQ	103.5	K9IYP
Pike	145.43000	144.83000	103.5	103.5	W9TRA
Pope	146.88000	146.28000	CSQ	88.5	WS9CAN
Pulaski	146.88000	146.28000	CSQ	88.5	WS9CAN
Putnam					
Randolph	147.09000	147.69000	CSQ	88.5	W9RNM
Richland	146.76000	146.16000	CSQ	94.8	KC9RHG
Rock Island	146.88000	146.28000	CSQ	77.0	W0BXR
St. Clair	147.09000	147.69000	CSQ	88.5	W9RNM
Saline	146.88000	146.28000	CSQ	88.5	WS9CAN
Sangamon	443.00000	448.00000	CSQ	103.5	W9DUA
Schuyler					
Scott					

Illinois Amateur VHF / UHF Repeaters
FM Analog, Wideband

COUNTY	FREQUENCY		TONE		CALLSIGN
	RX	TX	RX	TX	
Shelby	147.39000	147.99000	203.5	203.5	WB9QPM
Stark					
Stephenson	147.39000	147.99000	CSQ	114.8	KB9RNT
Tazewell	146.67000	146.07000	103.5	103.5	W9TAZ
Union	147.09000	147.69000	CSQ	88.5	W9RNM
Vermilion	146.82000	146.22000	CSQ	88.5	W9MJL
Wabash	146.94000	146.34000	CSQ	94.8	AI9H
Warren	146.65500	146.05500	CSQ	173.8	KD9J
Washington	147.09000	147.69000	CSQ	88.5	W9RNM
Wayne	145.13000	144.73000	CSQ	88.5	KC9T0N
White	146.88000	146.28000	CSQ	88.5	WS9CAN
Whiteside	146.85000	146.25000	114.8	114.8	W9MEP
Will	444.87500	449.87500	CSQ	114.8	K9XD
Williamson	146.88000	146.28000	CSQ	88.5	WS9CAN
Winnebago	147.19500	147.79500	CSQ	114.8	K9RFD
Woodford	146.61000	146.01000	103.5	103.5	K9WRA

Interoperability Assets

INTEROPERABILITY REPEATERS

Some jurisdictions have deployed radio repeaters that provide interoperable communications allowing efficient coordination of first responders during an incident or planned event. These repeaters may be in fixed positions using permanent towers; or they may be transportable, allowing for deployment at or near the incident scene.

Proper operation of repeater stations is necessary for the efficient use of the interoperability channels, especially in minimizing and eliminating potential interference.

Best Practice Summary

- Only the minimum number of calling channel repeaters should be in “Repeater ON” mode across the region.
- Repeaters on the tactical frequencies should always be in “Repeater OFF” mode, unless they are actually in use.
- Agencies should periodically check their repeaters to make sure they are in “Repeater OFF” mode to prevent interference to other agencies.
- Having multiple repeaters active on the same frequency in the same area causes the mobile and portable radio users to hear interference from multiple repeaters.
- Dispatch centers using direct repeater control normally cannot hear other active repeaters on their consoles unless they also have a monitor radio on that channel. They will hear the input

channel from any mobile, portable, or control stations from any agency within range of their repeaters.

Calling Channels - Many agencies monitor the calling channels for their area on their own repeaters.

Tactical Channels are used for incident communications.

- All tactical repeaters will be set to “Repeater Off”, or equivalent, unless needed for an incident or event in that area.
- If possible, configure tactical repeaters to default to “Repeater OFF” in the event of a power cycle or other disruption.
- In general, the tactical channel repeater that is closest to the incident and provides the minimum effective coverage area for the incident should be used. This allows greater reuse of frequencies for multiple incidents across the region.

UHF Fixed Base Interoperability Repeaters					
LOCATION			CONTACT ¹	CHANNELS	
RGN	CITY	ADDRESS		AVAILABLE	SIMUL
3	Morris	IL47/IL113	Grundy County 911 Center 815-942-0336	UCALL40 ALL UTAC ²	1
4	Addison	I-355/Army Trail	Illinois Tollway 630-241-6800	UCALL40 ALL UTAC ²	1
4	Chicago		Chicago OEMC 312-746-9241	UCALL40 ² ALL UTAC ^{2 3}	1
4	Chicago		Chicago OEMC 312-746-9241	UCALL40 ³ ALL UTAC ^{2 3}	1
4	Libertyville	I-94/IL137	Illinois Tollway 630-241-6800	UCALL40 ALL UTAC ²	1
4	Markham	I-294/I-80	Illinois Tollway 630-241-6800	UCALL40 ALL UTAC ²	1
4	Western Springs	I-294/55th St	Illinois Tollway 630-241-6800	UCALL40 ALL UTAC ²	1

¹ Unless otherwise noted, use the following 24 hour dispatch number:
IEMA 217-782-7860

² **ALL UTAC** signifies that all three tactical UHF national interop channels (UTAC41, UTAC42, and UTAC 43) are available.

³ Can be patched to VHF and UHF.

800 MHz Fixed Base Interoperability Repeaters

800 MHz Fixed Base Interoperability Repeaters					
LOCATION			CONTACT ¹	CHANNELS	
RGN	CITY	ADDRESS		AVAILABLE	SIMUL
2	Belvidere	I-90/US20	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
2	East Moline	800 Hillcrest	ISP Sterling 815-632-4010	8CALL90 8TAC91	2
2	Rochelle	I-88/I-39	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
3	Aurora	I-88/IL25	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
3	Bradley	500 Kinzie Ave	ISP Pontiac 815-844-1500	8CALL90 8TAC92	2
3	Elgin	120 S State St	Elgin PD 847-289-2700	8CALL90 8TAC91	2
3	Morris	IL47/IL113	Grundy Co. SO 815-942-0336	8CALL90 8TAC91 8TAC92	3
3	Morris	IL47/IL113	Grundy Co SO 815-942-0336	8CALL90 ALL 8TAC ²	5
4	Arlington Heights	1975 East Davis St	NW Central Disp. 847-398-1130	8CALL90 ³ ALL 8TAC ²	5
4	Chicago		Chicago OEMC 312-746-9241	8CALL90 ³ ALL 8TAC ^{2,3}	1
4	Chicago		Chicago OEMC 312-746-9241	8CALL90 ³ ALL 8TAC ^{2,3}	1
4	Chicago	26 th /California	Cook County SO 847-294-4733	8TAC91	1

800 MHz Fixed Base Interoperability Repeaters

800 MHz Fixed Base Interoperability Repeaters					
LOCATION			CONTACT ¹	CHANNELS	
RGN	CITY	ADDRESS		AVAILABLE	SIMUL
4	Deerfield	I-294/ I-94	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
4	Elgin	I-90/IL25	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
4	Gurnee	I-94/IL132	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
4	Hoffman Estates	IL58/Barrington Rd	Cook County SO 847-294-4733	8TAC92	1
4	Lemont	I-355/127 th St.	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
4	Lemont	I-355/127 th St.	Will County EMA 815-740-0911	8CALL90 8TAC91 8TAC92 8TAC94	4
4	Libertyville	1303 N Milwaukee	Lake County SO 847-549-5200	8CALL90 ALL 8TAC ²	5
4	Lisle	I-355/I-88	Illinois Tollway 630-271-7586	8TAC91 8TAC94 ²	2
4	Markham	I-294/I-80	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2
4	Palos Park	Ashland/Sauk Trail	Cook County SO 847-294-4733	8TAC93	1
4	Steger	McCarthy/Wolf Rd	Cook County SO 847-294-4733	8TAC94	1
4	Western Springs	I-294/55 th St	Illinois Tollway 630-271-7586	8CALL90 ALL 8TAC ²	2

800 MHz Fixed Base Interoperability Repeaters					
LOCATION			CONTACT ¹	CHANNELS	
RGN	CITY	ADDRESS		AVAILABLE	SIMUL
6	Peoria	6035 N Knoxville	ISP Pontiac 815.844.1500	8CALL90 8TAC92	2
6	Springfield	3700 Lake Shore Dr	ISP Springfield 217-786-6677	8CALL90 8TAC91 8TAC92	3
6	Taylorville	Route 29	ISP Springfield 217-786-6677	8CALL90 8TAC92	2
7	Normal	Waterson Dorm	ISP Pontiac 815-844-1500	8CALL90 8TAC92	2
8	Bellville	3001 Save Rd	St Clair County 618-971-5409	8CALL90 8TAC91	2
8	St Louis	1200 Clark	St Louis PD 314-231-1212	8CALL90 ALL 8TAC ²	5
9	Mason	4320 N 950 th St.	ISP DuQuoin 618.542.2171	8CALL90 8TAC92	2

¹ Unless otherwise noted, use the following 24 hour dispatch number:
IEMA 217-782-7860

² **ALL 8TAC** signifies that all four tactical 800 MHz national interop channels (8TAC91, 8TAC92, 8TAC93, 8TAC94) are available.

³ Can be patched to VHF and UHF.

Transportable Interoperability Repeaters

Transportable Interoperability Repeaters				
LOCATION		NAME	CONTACT ¹	CHANNEL ²
RGN	CITY			
2	Oregon	ITECS 2	IEMA	VTAC36
				UTAC41
				UTAC43
				8CALL90, ALL 8TAC
2	Sterling	ISP North SOW	IEMA	8TAC91
3	Joliet	ITECS 3	IEMA	VTAC36
				UTAC41
				UTAC42
				8CALL90, ALL 8TAC
4	Chicago	ITECS 5	IEMA	VTAC36
				UTAC41
				UTAC43
				8CALL90, ALL 8TAC
4	Wheaton	ITECS 4	IEMA	VTAC36
				UTAC41 UTAC43
				8CALL90, ALL 8TAC
6	Jacksonville	ITECS 6	IEMA	VTAC36
				UTAC41
				UTAC43
				8CALL90, ALL 8TAC
6	Springfield	IEMA SOW	IEMA	8TAC94
6	Springfield	ISP Central SOW	IEMA	8TAC92

Transportable Interoperability Repeaters

LOCATION		NAME	CONTACT ¹	CHANNEL ²
RGN	CITY			
7	Champaign	ITECS 7	IEMA	VTAC36
				UTAC41
				UTAC43
				8CALL90, ALL 8TAC
8	Waterloo	ITECS 8	IEMA	VTAC36
				UTAC41
				UTAC42
				8CALL90, ALL 8TAC
9	Robinson	ITECS 9	IEMA	VTAC36
				UTAC41
				UTAC42
				8CALL90, ALL 8TAC
11	Du Quoin	ISP South SOW	IEMA	8TAC93
11	Marion	ITECS 11	IEMA	VTAC36
				UTAC41
				UTAC43
				8CALL90, ALL 8TAC

¹ Unless otherwise noted, use the following 24 hour dispatch number:
IEMA 217-782-7860

² Each line indicates an individual repeater.

Portable Interoperability Repeaters

Portable Interoperability Repeaters				
LOCATION		NAME	CONTACT ¹	CHANNEL ²
RGN	CITY			
2	Oregon	ITECS 2	IEMA	7CALL50, 7TAC51, 52, 53
3	Joliet	ITECS 3	IEMA	7CALL50, 7TAC51, 52, 53
3	Morris	Grundy Co.	Grundy County 911 Center 815-942-0336	VTAC 37
				UCALL40, UTAC41,42,43
				8CALL90, 8TAC91,92,93,94
4	Wheaton	ITECS 4	IEMA	7CALL50, 7TAC51, 52, 53
4	Wheeling	MABAS	MABAS	VTAC36 ³
				VTAC36 ³
				VTAC36 ³
				UHF Range 1 USAR Channels ³
				UCALL40, UTAC41, 42, 43 ³
				UCALL40, UTAC41, 42, 43 ³
				UCALL40, UTAC41, 42, 43 ³
				UHF T Band ³ Unprogrammed
				UHF T Band ³ Unprogrammed
				UHF T Band ³ Unprogrammed
				7CALL50, 7TAC51, 52, 53
				7CALL50, 7TAC51, 52, 53
				7CALL50, 7TAC51, 52, 53
				8TAC91, 92, 94 ³
8TAC91, 92, 94 ³				
8TAC91, 92, 94 ³				

Portable Interoperability Repeaters

LOCATION		NAME	CONTACT ¹	CHANNEL ²
RGN	CITY			
5	Chicago	ITECS 5	IEMA	7CALL50, 7TAC51, 52, 53
6	Jacksonville	ITECS 6	IEMA	7CALL50, 7TAC51, 52, 53
7	Champaign	ITECS 7	IEMA	7CALL50, 7TAC51, 52, 53
8	Waterloo	ITECS 8	IEMA	7CALL50, 7TAC51, 52, 53
9	Robinson	ITECS 9	IEMA	7CALL50, 7TAC51, 52, 53
11	Marion	ITECS 11	IEMA	7CALL50, 7TAC51, 52, 53

¹ Unless otherwise noted, use the following 24 hour dispatch numbers:

IEMA 217-782-7860

MABAS 847-724-5700

² Each line indicates an individual repeater.

³ These repeaters can be reprogrammed by MABAS communications personnel.

GATEWAYS

Gateways interconnect channels of different systems (whether on different bands, channels, or modes), allowing first responders to use their existing radios and channels to communicate with users outside their agency or radio system. Use of designated interoperability channels is preferred over the use of any agency's primary operational channels or talkgroups.

When multiple STARCOM21 talkgroups are to be patched, create the patch at the console level rather than an ACU, ICRI, or similar device.

Requesting a Console Patch - The incident COML/COMC or their designee determines when a situation exists that requires the use of a console patch and notifies the appropriate dispatch center.

Fixed Gateways				
LOCATION	NAME	CONTACT ¹	TYPE	MODEL
Statewide	ISP	ISP	Console	MCC7500
Statewide	IDOT	IDOT	Console	MCC7500
Springfield	IEMA	IEMA	Console	MCC7500
Tollway	Tollway	Tollway	Console	MCC7500

¹ See **Statewide Communications Center** directory beginning on page 102 for specific telephone numbers.

Transportable Gateways						
LOCATION		NAME	CONTACT ¹	MODEL	NUMBER OF:	
RGN	CITY				NETS	PORTS
2	Galena	UCP 5	IEMA	ICRI	1	5
2	Galesburg	UCP 4	IEMA	ICRI	1	5
2	Oregon	ITECS 2	IEMA	ACU-1000	7	12
2	Princeton	UCP 2	IEMA	ICRI	1	5
2	Rock Island	UCP 9	IEMA	ICRI	1	5
3	Joliet	ITECS 3	IEMA	ACU-1000	7	12
3	Yorkville	UCP 6	IEMA	ICRI	1	5
4	Wauconda	UCP 13	IEMA	ICRI	1	5
4	Wheaton	ITECS 4	IEMA	ACU-1000	7	12
4	Wheaton	UCP 3	IEMA	ICRI	1	5
5	Chicago	ITECS 5	IEMA	ACU-1000	7	12
6	Jacksonville	ITECS 6	IEMA	ACU-1000	7	12
6	Quincy	UCP 1	IEMA	ICRI	1	5
6	Springfield	ISSP ICRI	ISSP 217-524-0200	ICRI	2	5
6	Springfield	IEMA ICRI	IEMA	ICRI	2	5
7	Bloomington	UCP 8	IEMA	ICRI	1	5
7	Champaign	ITECS 7	IEMA	ACU-1000	7	12

Transportable Gateways						
LOCATION		NAME	CONTACT ¹	MODEL	NUMBER OF:	
RGN	CITY				NETS	PORTS
7	Tremont	UCP 10	IEMA	ICRI	1	5
8	Waterloo	ITECS 8	IEMA	ACU-1000	7	12
9	Robinson	ITECS 9	IEMA	ACU-1000	7	12
11	Marion	ITECS 11	IEMA	ACU-1000	7	12

¹ Unless otherwise noted, use the following 24 hour dispatch number:
IEMA 217-782-7860

RADIO CACHES

Cache radios refer to radios reserved to support incidents.

Radio Caches							
LOCATION		NAME	CONTACT ¹	MODEL	BANDS ²	S21	QTY
RGN	CITY						
2	Dixon	RGN 2 STARCOM21	IEMA 815-288-1455	XTS5000	78S	X	6
2	Galena	UCP 5	IEMA	XTS1500	78S	X	12
2	Galesburg	UCP 4	IEMA	XTS1500	78S	X	12
2	Oregon	ITECS 2 VHF	IEMA	EFJ 5100	V		24
2	Oregon	ITECS 2 UHF	IEMA	EFJ 5100	U		24
2	Oregon	ITECS 2 800	IEMA	EFJ 5100	8		11
2	Oregon	ITECS 2 Harris	IEMA	Harris Unity	VU78S	X	40
2	Princeton	UCP 2	IEMA	XTS1500	78S	X	12
2	Rock Island	UCP 9	IEMA	XTS1500	78S	X	12
2	Sterling	ISP District 1 (LE Only)	ISP 815-632-4010	XTS5000	78S	X	25
3	Joliet	ITECS 3 VHF	IEMA	EFJ 5100	V		24
3	Joliet	ITECS 3 UHF	IEMA	EFJ 5100	U		24
3	Joliet	ITECS 3 800	IEMA	EFJ 5100	8		11
3	Joliet	ITECS 3 Harris	IEMA	Harris Unity	VU78S	X	40

Radio Caches

Radio Caches							
LOCATION		NAME	CONTACT ¹	MODEL	BANDS ²	S21	QTY
RGN	CITY						
3	Ottawa	RGN 3 STARCOM21	IEMA 815-433-7161	XTS5000	78S	X	36
3	Yorkville	UCP 6	IEMA	XTS1500	78S	X	12
4	Chicago	ITECS 5 VHF	IEMA	EFJ 5100	V		24
4	Chicago	ITECS 5 UHF	IEMA	EFJ 5100	U		24
4	Chicago	ITECS 5 800	IEMA	EFJ 5100	8		11
4	Chicago	ITECS 5 Harris	IEMA	Harris Unity	VU78S	X	40
4	Des Plaines	RGN 4 STARCOM21	IEMA 847-294-4717	XTS5000	78S	X	6
4	Round Lake	Lake Co Cache 2	MABAS	APX7000	V78S	X	12
4	Wauconda	UCP 13 VHF	MABAS	HT1250	V		12
4	Wauconda	UCP 13 UHF	MABAS	HT1250	U		12
4	Wauconda	UCP 13 Cache 3	MABAS	APX7000	V78S	X	12
4	Wauconda	UCP 13 Cache 4	MABAS	APX7000	V78S	X	12
4	Wauconda	UCP 13 Cache 10	MABAS	Harris Unity	VU78S	X	130
4	Wheaton	ITECS 4 VHF	IEMA	EFJ 5100	V		24
4	Wheaton	ITECS 4 UHF	IEMA	EFJ 5100	U		24
4	Wheaton	ITECS 4 800	IEMA	EFJ 5100	8		11
4	Wheaton	ITECS 4 Harris	IEMA	Harris Unity	VU78	X	40

Radio Caches

Radio Caches							
LOCATION		NAME	CONTACT ¹	MODEL	BANDS ²	S21	QTY
RGN	CITY						
4	Wheaton	UCP 3	IEMA	XTS1500	78S	X	12
4	Wheeling	ILEAS North/Center	IEMA	XTS5000	78S	X	48
4	Wheeling	IPWMAN SC21 N	IEMA	APX7000	V78S	X	18
4	Wheeling	MABAS Cache 5	MABAS	APX7000	V78S	X	12
4	Wheeling	MABAS Cache 6	MABAS	APX7000	V78S	X	12
4	Wheeling	MABAS Cache 7	MABAS	APX7000	V78S	X	12
4	Wheeling	MABAS Cache 8	MABAS	APX7000	V78S	X	12
4	Wheeling	MABAS Cache 9	MABAS	Thales Liberty	VU78S	X	48
6	Jacksonville	ITECS 6 Harris	IEMA	Harris Unity	VU78S	X	40
6	Quincy	UCP 1	IEMA	XTS1500	78S	X	12
6	Springfield	ISP Radio Lab (LE Only)	ISP 217-786-6677	XTS5000	78S	X	50
6	Springfield	ISSP VHF	ISSP 217-524-0200	HT1250	V		50
6	Springfield	OSFM SC21	IEMA	XTS5000	78S	X	12
6	Springfield	RGN 6 STARCOM21	IEMA	XTS5000	78S	X	6
6	Springfield	STARCOM21	IEMA	XTS5000	78S	X	180
6	Springfield	VHF HT1250	IEMA	HT1250	V		65

Radio Caches

Radio Caches							
LOCATION		NAME	CONTACT ¹	MODEL	BANDS ²	S21	QTY
RGN	CITY						
6	Springfield	VHF XTS3000	IEMA	XTS3000	V		10
7	Bloomington	UCP 8	IEMA	XTS1500	78S	X	12
7	Champaign	IPWMAN SC21 C	IEMA	APX7000	V78S	X	18
7	Champaign	ITECS 7 VHF	IEMA	EFJ 5100	V		24
7	Champaign	ITECS 7 UHF	IEMA	EFJ 5100	U		24
7	Champaign	ITECS 7 800	IEMA	EFJ 5100	8		11
7	Champaign	ITECS 7 Harris	IEMA	Harris Unity	VU78S	X	40
7	Champaign	RGN 7 SC21	IEMA	XTS5000	78S	X	6
7	Tremont	UCP 10	IEMA	XTS1500	78S	X	12
7	Urbana	ILEAS 800 Conv. Cache	IEMA	EFJ 5100	8		22
7	Urbana	ILEAS APX	IEMA	APX7000	V78S	X	48
7	Urbana	ILEAS UHF	IEMA	EFJ 5100	U		20
7	Urbana	ILEAS VHF	IEMA	EFJ 5100	V		20
7	Urbana	ILEAS Emergency	IEMA	XTS5000	78S	X	200
8	Edwardsville	UCP 7	IEMA	XTS1500	78S	X	12
8	Fairview Heights	RGN 8 STARCOM21	IEMA	XTS5000	78S	X	6
8	Waterloo	ITECS 8 VHF	IEMA	EFJ 5100	V		24

Radio Caches

Radio Caches							
LOCATION		NAME	CONTACT ¹	MODEL	BANDS ²	S21	QTY
RGN	CITY						
8	Waterloo	ITECS 8 UHF	IEMA	EFJ 5100	U		24
8	Waterloo	ITECS 8 800	IEMA	EFJ 5100	8		11
8	Waterloo	ITECS 8 Harris	IEMA	Harris Unity	VU78S	X	40
8	Wood River	ILEAS South	IEMA	XTS5000	78S	X	24
9	Flora	RGN 9 STARCOM21	IEMA 618-662-4474	XTS5000	78S	X	6
9	Mt. Vernon	UCP 11	IEMA	XTS1500	78S	X	12
9	Robinson	ITECS 9 VHF	IEMA	EFJ 5100	V		24
9	Robinson	ITECS 9 UHF	IEMA	EFJ 5100	U		24
9	Robinson	ITECS 9 800	IEMA	EFJ 5100	8		11
9	Robinson	ITECS 9 Harris	IEMA	Harris Unity	VU78S	X	40
11	DuQuoin	ISP District 13 (LE Only)	ISP 618-542-2171	XTS5000	78S	X	25
11	DuQuoin	UCP 12	IEMA	XTS1500	78S	X	12
11	Marion	IPWMAN SC21 S	IEMA	APX7000	V78S	X	18
11	Marion	ITECS 11 Harris	IEMA	Harris Unity	VU78S	X	40
11	Marion	RGN 11 STARCOM21	IEMA 618-997-5847	XTS5000	78S	X	6

¹ Unless otherwise noted, use the following 24 hour dispatch numbers:

IEMA 217-782-7860
MABAS 847-724-5700

² Codes used in **Radio** and **Repeaters** columns:

H – High Frequency (3-30 MHz)
L – VHF Low Band (30-50 MHz)
V – VHF High Band (150.8-174 MHz)
U – UHF (450-512 MHz)
7 – 700 MHz
8 – 800 MHz
S – Starcom21 equipped

MOBILE COMMUNICATIONS UNITS (VEHICLES/TRAILERS)

A Mobile Communications Units Center (MCU) refers to any vehicular asset that can be deployed to provide or supplement communications.

Mobile Communications Units				
LOCATION		NAME	CONTACT ¹	FEMA TYPE
RGN	CITY			
2	Dixon	IDOT D2 MEOC	IDOT	IV
General	Mast (ft)		Data	LTE Data
	Generator			Satellite Data
	Seating			Other
	RADO Positions	1	Telephone	LTE Voice
Footprint (L x W)		Satellite VOIP		
Radio	Radios, Fixed	LVU78SMA	Telephone	Phone System
	Repeaters			Portable Sat Ph.
	Gateway	X		Video
	Cache Radios		Deployable	
	Other		Other	
Notes				

Mobile Communications Units

LOCATION		NAME	CONTACT ¹	FEMA TYPE	
RGN	CITY				
2	Galena	UCP 5	IEMA	II	
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA	Telephone	Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
	Other			Other	

Notes

2	Galesburg	UCP 4	IEMA	II	
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA	Telephone	Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
	Other			Other	

Notes

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹	FEMA TYPE	
RGN	CITY				
2	Oregon	ITECS 2	IEMA	IV	
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Video	Site Security	
	Cache Radios	VU78S		Deployable	
	Other			Other	
Notes					
2	Princeton	UCP 2	IEMA	II	
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
	Other			Other	
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
2	Rock Island	UCP 9	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
Other		Other			
Notes					
2	Sterling	North SOW	ISP 815-632-4010		
General	Mast (ft)	80	Data	LTE Data	
	Generator	X		Satellite Data	X
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	S21 SITE		Phone System	
	Repeaters	8TAC91		Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios			Deployable	
Other		Other			
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
3	Joliet	ITECS 3	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Video	Site Security	
	Cache Radios	VU78S		Deployable	
	Other			Other	
Notes					
3	McHenry Co	EMAT Trailer 3	EM-COM		III
General	Mast (ft)		Data	LTE Data	X
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	2	Telephone	LTE Voice	X
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S		Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	
Notes					

Mobile Communications Units

Mobile Communications Units						
LOCATION		NAME	CONTACT ¹		FEMA TYPE	
RGN	CITY					
3	Ottawa	IDOT D3 MEOC	IDOT		IV	
General	Mast (ft)	22	Data	LTE Data		
	Generator			Satellite Data		
	Seating			Other		
	RADO Positions	1	Telephone	LTE Voice		
	Footprint (L x W)			Satellite VOIP		
Radio	Radios, Fixed	LVU78SMA		Phone System		
	Repeaters			Portable Sat Ph.		
	Gateway	X	Video	Site Security		
	Cache Radios			Deployable		
Other		Other				
Notes						
3	Yorkville	UCP 6	IEMA		II	
General	Mast (ft)	25	Data	LTE Data		
	Generator	X		Satellite Data		
	Seating	12		Other		
	RADO Positions	4	Telephone	LTE Voice		
	Footprint (L x W)	50' x 20'		Satellite VOIP		
Radio	Radios, Fixed	HLVU78SA		Phone System		
	Repeaters			Portable Sat Ph.		
	Gateway	ICRI	Video	Site Security		
	Cache Radios	78S		Deployable		
Other		Other				
Notes						

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
4	Chicago	ITECS 5	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Video	Site Security	
	Cache Radios	VU78S		Deployable	
	Other			Other	
Notes					
4	Glenview	UCP 14	MABAS		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	X
	Cache Radios	78S		Deployable	
	Other			Other	
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
4	Oak Park	UCP 15	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	X
	Cache Radios	78S		Deployable	
Other		Other			
Notes					
4	Tinley Park	UCP 16	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	X
	Cache Radios	78S		Deployable	
Other		Other			
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
4	Wauconda	UCP 13	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Site Security	X	
	Cache Radios	78S	Deployable		
	Other		Other		
Notes					
4	Wheaton	ITECS 4	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Site Security		
	Cache Radios	VU78S	Deployable		
	Other		Other		
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
4	Wheaton	UCP 3	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
Other		Other			
Notes					
6	Springfield	IDOT MCC	IDOT		IV
General	Mast (ft)		Data	LTE Data	X
	Generator			Satellite Data	X
	Seating			Other	
	RADO Positions	1	Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S		Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios	X		Deployable	
Other		Other			
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
6	Jacksonville	ITECS 6	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Video	Site Security	
	Cache Radios	78S		Deployable	
	Other			Other	
Notes					
6	Peoria	IDOT D4 MEOC	IDOT		IV
General	Mast (ft)	22	Data	LTE Data	
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	1	Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S		Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway	X	Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
6	Quincy	UCP 1	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
Other		Other			
Notes					
6	Springfield	Central SOW	ISP 217-786-6677		
General	Mast (ft)	80	Data	LTE Data	
	Generator	X		Satellite Data	
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	S21 SITE		Phone System	
	Repeaters	8TAC92		Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios			Deployable	
Other		Other			
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
6	Springfield	IEMA Field Cmd 1	IEMA		II
General	Mast (ft)	42	Data	LTE Data	
	Generator			Satellite Data	
	Seating	15		Other	
	RADO Positions	1	Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radios, Fixed	LVU78S	Phone System		X	
Repeaters		Portable Sat Ph.			
Radio	Gateway		Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	
	Notes				
6	Springfield	IEMA Field Cmd 2	IEMA		II
General	Mast (ft)	42	Data	LTE Data	
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	1	Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radios, Fixed	LVU78S	Phone System		X	
Repeaters		Portable Sat Ph.			
Radio	Gateway		Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	
	Notes				

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
6	Springfield	IEMA SOW	IEMA		
General	Mast (ft)	80	Data	LTE Data	
	Generator	X		Satellite Data	
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	S21 SITE	Video	Phone System	
	Repeaters	8TAC94		Portable Sat Ph.	
	Gateway			Site Security	
	Cache Radios		Deployable		
	Other		Other		
Notes					
6	Springfield	IEMA UAC	IEMA		I
General	Mast (ft)		Data	LTE Data	
	Generator			Satellite Data	
	Seating	20		Other	
	RADO Positions	2	Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S	Video	Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway			Site Security	
	Cache Radios		Deployable		
	Other		Other		
Notes					

Mobile Communications Units

Mobile Communications Units						
LOCATION		NAME	CONTACT ¹		FEMA TYPE	
RGN	CITY					
7	Bellville	LE Cmd Trailer 3	ILEAS			
General	Mast (ft)		Data	LTE Data		
	Generator			Satellite Data		
	Seating			Other		
	RADO Positions		Telephone	LTE Voice		
	Footprint (L x W)			Satellite VOIP		
Radio	Radios, Fixed	V78S		Phone System		
	Repeaters			Portable Sat Ph.		
	Gateway		Video	Site Security		
	Cache Radios			Deployable		
	Other			Other		
Notes						
7	Bloomington	UCP 8	IEMA		II	
General	Mast (ft)	25	Data	LTE Data	X	
	Generator	X		Satellite Data	X	
	Seating	12		Other		
	RADO Positions	4	Telephone	LTE Voice	X	
	Footprint (L x W)	50' x 20'		Satellite VOIP	X	
Radio	Radios, Fixed	HLVU78SA		Phone System	X	
	Repeaters			Portable Sat Ph.		
	Gateway	ICRI	Video	Site Security	X	
	Cache Radios	78S		Deployable		
	Other			Other		
Notes						

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
7	Champaign	ITECS 7	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Video	Site Security	
	Cache Radios	VU78S		Deployable	
	Other			Other	
Notes					
7	Lincoln	EMAT Trailer 4	EM-COM		III
General	Mast (ft)		Data	LTE Data	X
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	2	Telephone	LTE Voice	X
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S		Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
7	McLean Co	EMAT Trailer 1	EM-COM		III
General	Mast (ft)	40	Data	LTE Data	X
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	2	Telephone	LTE Voice	X
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S	Telephone	Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway			Video	Site Security
	Cache Radios		Deployable		
	Other		Other		
Notes					
7	Paris	IDOT D5 MEOC	IDOT		IV
General	Mast (ft)	22	Data	LTE Data	
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	1	Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78SMA	Telephone	Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway	X		Video	Site Security
	Cache Radios		Deployable		
	Other		Other		
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
7	Tremont	UCP 10	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
Other		Other			
Notes					
7	Urbana	Tech Support Veh	ILEAS		
General	Mast (ft)		Data	LTE Data	
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed			Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios	X		Deployable	
Other		Other			
Notes					

Mobile Communications Units

LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
8	Edwardsville	UCP 7	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SMA	Video	Phone System	X
	Repeaters	7		Portable Sat Ph.	
	Gateway	ICRI (X2), ACU-T		Site Security	X
	Cache Radios	U78S	Deployable		
	Other		Other		

Notes

8	Waterloo	ITECS 8	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA	Video	Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000		Site Security	
	Cache Radios	VU78S	Deployable		
	Other		Other		

Notes

Mobile Communications Units

Mobile Communications Units						
LOCATION		NAME	CONTACT ¹		FEMA TYPE	
RGN	CITY					
9	Effingham	IDOT D7 MEOC	IDOT		IV	
General	Mast (ft)	22	Data	LTE Data		
	Generator			Satellite Data		
	Seating			Other		
	RADO Positions	1	Telephone	LTE Voice		
	Footprint (L x W)			Satellite VOIP		
Radio	Radios, Fixed	LVU78SMA		Phone System		
	Repeaters			Portable Sat Ph.		
	Gateway	X	Video	Site Security		
	Cache Radios			Deployable		
Other		Other				
Notes						
9	Mt. Vernon	UCP 11	IEMA		II	
General	Mast (ft)	25	Data	LTE Data		
	Generator	X		Satellite Data		
	Seating	12		Other		
	RADO Positions	4	Telephone	LTE Voice		
	Footprint (L x W)	50' x 20'		Satellite VOIP		
Radio	Radios, Fixed	HLVU78SA		Phone System		
	Repeaters			Portable Sat Ph.		
	Gateway	ICRI	Video	Site Security		
	Cache Radios	78S		Deployable		
Other		Other				
Notes						

Mobile Communications Units

LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
9	Robinson	ITECS 9	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA	Telephone	Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000		Video	Site Security
	Cache Radios	VU78S	Deployable		
	Other		Other		

Notes

11	DuQuoin	South SOW	ISP 618-542-2171		
General	Mast (ft)	80	Data	LTE Data	
	Generator	X		Satellite Data	
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	S21 SITE	Telephone	Phone System	
	Repeaters	8TAC93		Portable Sat Ph.	
	Gateway			Video	Site Security
	Cache Radios		Deployable		
	Other		Other		

Notes

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
11	DuQuoin	UCP 12	IEMA		II
General	Mast (ft)	25	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	12		Other	
	RADO Positions	4	Telephone	LTE Voice	X
	Footprint (L x W)	50' x 20'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA	Telephone	Phone System	X
	Repeaters			Portable Sat Ph.	
	Gateway	ICRI	Video	Site Security	X
	Cache Radios	78S		Deployable	
	Other			Other	

Notes

11	Franklin Co	EMAT Trailer 2	EM-COM		III
General	Mast (ft)	40	Data	LTE Data	X
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions	2	Telephone	LTE Voice	X
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed	LVU78S	Telephone	Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	

Notes

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
11	Marion	ITECS 11	IEMA		IV
General	Mast (ft)	50	Data	LTE Data	X
	Generator	X		Satellite Data	X
	Seating	0		Other	
	RADO Positions	0	Telephone	LTE Voice	X
	Footprint (L x W)	60' x 30'		Satellite VOIP	X
Radio	Radios, Fixed	HLVU78SA		Phone System	X
	Repeaters	VU8		Portable Sat Ph.	
	Gateway	ACU1000	Video	Site Security	
	Cache Radios	78S		Deployable	
Other		Other			
Notes					
General	Mast (ft)		Data	LTE Data	
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radio	Radios, Fixed			Phone System	
	Repeaters			Portable Sat Ph.	
	Gateway		Video	Site Security	
	Cache Radios			Deployable	
Other		Other			
Notes					

Mobile Communications Units

Mobile Communications Units					
LOCATION		NAME	CONTACT ¹		FEMA TYPE
RGN	CITY				
General	Mast (ft)		Data	LTE Data	
	Generator			Satellite Data	
	Seating			Other	
	RADO Positions		Telephone	LTE Voice	
	Footprint (L x W)			Satellite VOIP	
Radios, Fixed		Phone System			
Repeaters		Portable Sat Ph.			
Radio	Gateway		Video	Site Security	
	Cache Radios			Deployable	
	Other			Other	
Notes					

¹ Unless otherwise noted, use the following 24 hour dispatch numbers:

IEMA	217-782-7860
ILEAS	847-590-3500
IDOT	217-782-2937
MABAS	847-724-5700
EM-COM	217-732-4311

² Codes used in **Radio** and **Repeaters** columns:

- H – High Frequency (3-30 MHz)
- L – VHF Low Band (30-50 MHz)
- V – VHF High Band (150.8-174 MHz)
- U – UHF (450-512 MHz)
- 7 – 700 MHz

8 – 800 MHz

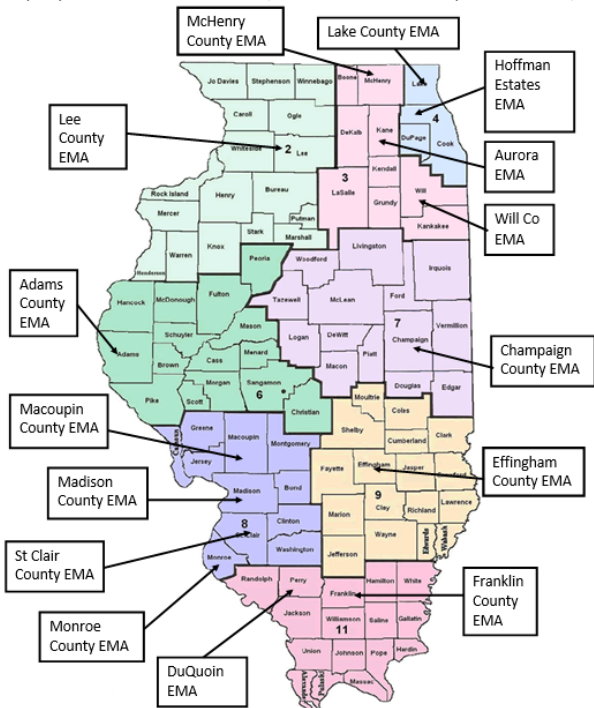
S – Starcom21 equipped

M – Marine Band

A – Aviation ‘Air’ Band (Amplitude Modulation)

GENERATORS

The following Host Agencies have transportable generator units for deployment to an incident (See Table after map for details):



Transportable Generators

LOCATION		CONTACT	HOST	QTY	MAKE	MODEL	kVA
RGN	CITY						
2	Dixon	EM-COM 217-732-4311	Lee Co EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
3	Aurora	EM-COM 217-732-4311	Aurora EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
3	Joliet	EM-COM 217-732-4311	Will Co EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
3	Woodstock	EM-COM 217-732-4311	McHenry Co EMA	3	CK Power	CKT 603 DM	60
				1	Baldor	TS100	100
4	Hoffman Estates	EM-COM 217-732-4311	Hoffman Estates EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
4	Libertyville	EM-COM 217-732-4311	Lake Co EMA	1	CK Power	CKT 303 DM	30
				3	CK Power	CKT 603 DM	60
				1	Kohler	100REOZT	100
6	Quincy	EM-COM 217-732-4311	Adams Co EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
				1	Kohler	100REOZT	100
7	Urbana	EM-COM 217-732-4311	Champaign Co EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
				1	Kohler	100REOZT	100
8	Carlinville	EM-COM 217-732-4311	Macoupin Co EMA	1	CK Power	CKT 303 DM	30
				4	CK Power	CKT 603 DM	60
				1	Kohler	100REOZT	100

Transportable Generators

LOCATION		CONTACT	HOST	QTY	MAKE	MODEL	kVA
RGN	CITY						
8	Mascoutah	Belleville 911 618-277-3500	St Clair Co EMA	5	Baldor	TS60	60
8	Waterloo	Monroe Co 618-939-8651 X1	Monroe Co	4	Blue Star	JD60-01	60
				1	Baldor	TS60	60
8	Wood River	Glen Carbon 618-288-2610	Madison County EMA	1	Baldor	TS45	45
				5	Blue Star	JD60-01	60
9	Effingham	EM-COM 217-732-4311	Effingham Co EMA	5	CK Power	CKT 603 DM	60
				1	Baldor	TS 100	100
11	Benton	EM-COM 217-732-4311	Franklin Co EMA	1	CK Power	CKT 303 DM	30
				5	CK Power	CKT 603 DM	60
11	DuQuoin	EM-COM 217-732-4311	DuQuoin EMA	1	CK Power	CKT 303 DM	30
				5	CK Power	CKT 603 DM	60
Statewide Each MABAS Division		Contact Local MABAS Division -or- RED Center 847-724-5700	Local	70 +	Light Tower: 4 - 1500 watt MH lights 20 kVA Generator		20

Interoperability Points of Contact

TICP/FOG

Primary POC

Name:	Illinois Emergency Management Agency	
POC Name:	Matthew Miller	
Title:	Statewide Interoperability Coordinator (SWIC)	
Address:	4800 Rodger St Springfield, Illinois 62703	
Phone:	217-622-3278 (Cell)	217-782-7860 (24/7)
Email:	Matthew.D.Miller@illinois.gov SWIC@illinois.gov	

*ILEMA OPERATIONS CENTER /
STATE COMMUNICATIONS UNIT (COMU)*

217-782-7860
ema.dispatcher@illinois.gov

STATEWIDE COMMUNICATIONS CENTERS

Agency	Division	Dispatch Location	Phone
IEMA	HQ	Springfield	217-782-7860
IDOC	Ops	Springfield	217-558-2200
Tollway	All	Downers Grove	630-241-6800
ISP	Dist. 1	Sterling	815-632-4010
ISP	Dist. 2	Des Plaines	847-294-4400
ISP	Chicago	Des Plaines	847-294-4400
ISP	Dist. 5	Des Plaines	847-294-4400
ISP	Dist. 6	Pontiac	815-844-1500
ISP	Dist. 7	Sterling	815-632-4010
ISP	Dist. 8	Pontiac	815-844-1500
ISP	Dist. 9	Springfield	217-786-6677
ISP	Dist. 10	Pontiac	815-844-1500
ISP	Dist. 11	Collinsville	618-346-3610
ISP	Dist. 12	DuQuoin	618-542-2171
ISP	Dist. 13	DuQuoin	618-542-2171
ISP	Dist. 14	Springfield	217-786-6677
ISP	Dist. 15	Downers Grove	630-241-6800
ISP	Dist. 16	Sterling	815-632-4010
ISP	Dist. 17	Sterling	815-632-4010
ISP	Dist. 18	Collinsville	618-346-3610
ISP	Dist. 19	DuQuoin	618-542-2171
ISP	Dist. 20	Springfield	217-786-6677

Agency	Division	Dispatch Location	Phone
ISP	Dist. 21	Pontiac	815-844-1500
ISP	Dist. 22	DuQuoin	618-542-2171
IDOT	Dist. 1	Schaumburg	847-705-4602
IDOT	Dist. 2	Dixon	815-284-5401
IDOT	Dist. 3	Ottawa	815-434-8431
IDOT	Dist. 4	Peoria	309-671-4487
IDOT	Dist. 5	Paris	217-466-7294
IDOT	Dist. 6	Springfield	217-782-7316
IDOT	Dist. 7	Effingham	217-342-8272
IDOT	Dist. 8	Collinsville	618-346-3237
IDOT	Dist. 9	Carbondale	618-351-5338
IDOT	Statewide	Springfield	217-782-2937
IDNR	Statewide	Springfield	217-782-6302
IDNR	Region 1	Springfield	217-782-6752
IDNR	Region 2	Bartlett	847-608-3100
IDNR	Region 4	Grafton	618-786-3323
IDNR	Region 5	Benton	618-435-8138
ISSP	Statewide	Springfield	217-524-0200
ILEAS	Statewide	Primary Secondary	847-590-3500 309-494-8000

COMMUNICATIONS POINTS OF CONTACT

AGENCY	NAME	PHONE EMAIL
FEMA Region V	Karl Arriola	202-679-2772 karl.arriola@fema.dhs.gov
IDNR	Chris Stone	217-625-2906 dnr.quartermaster@illinois.gov
IDOC	Travis Workman	217-558-2200 X6310 travis.workman@illinois.gov
IDOT	Brandon Oxley	217-782-7328 brandon.oxley@illinois.gov
IDPH		
IEMA	SWIC Matthew Miller	217-622-3278 matthew.d.miller@illinois.gov
IESMA		
ILEAS	Russ Gentry	217-328-3800 (Office) 618-973-0139 (Mobile) rlgentry@ileas.org
IL-TERT	Brian Tegtmeyer	630-330-3292 btegtmeyer@ducomm.org
IMERT	Chris Jansen	815-297-2476 chrisj@imert.org
ING	Lt Col Don West	217-761-1719 donald.d.west@us.army.mil
ISP	Relu Jianu	312-636-4522 relu.jianu@illinois.gov
Toll Highway	Craig Lundt	630.241.6800 clundt@getipass.com

AGENCY	NAME	PHONE EMAIL
MABAS	Dave Dato	847-217-2000 dato@mabas-il.org
	Paul Maplethorpe	847-546-6001 maplethorpe@mabas-il.org
MABAS RED Center	Chris Lienhardt	847-498-5860 clienhardt@redcenter.org
AUXCOMM	Bill Springer	217-328-3800 (Office) 630-386-6038 (Mobile) waspringer@ileas.org
Region 13 / APCO	Billy Carter	312-497-6802 billy.carter@illinois.gov
Region 54 / APCO	Chris Kindelspire	815-405-0998 ckspire@grundy911.org

General Reference Information

STANDARD PHONETIC ALPHABET

A	Alpha	H	Hotel	O	Oscar	V	Victor
B	Bravo	I	India	P	Papa	W	Whiskey
C	Charlie	J	Juliet	Q	Quebec	X	Xray
D	Delta	K	Kilo	R	Romeo	Y	Yankee
E	Echo	L	Lima	S	Sierra	Z	Zulu
F	Foxtrot	M	Mike	T	Tango		
G	Golf	N	November	U	Uniform		

CTCSS (Continuous Tone Coded Squelch System)

Freq. (Hz)	Motorola PL™	Freq. (Hz)	Motorola PL™
67.0	XZ	136.5	4Z
69.3 or 69.4	WZ	141.3	4A
71.9	XA	146.2	4B
74.4	WA	151.4	5Z
77.0	XB	156.7	5A
79.7	WB	162.2	5B
82.5	YZ	167.9	6Z
85.4	YA	173.8	6A
88.5	YB	179.9	6B
91.5	ZZ	186.2	7Z
94.8	ZA	192.8	7A
97.4	ZB	203.5	M1
100.0	1Z	206.5	8Z
103.5	1A	210.7	M2
107.2	1B	218.1	M3
110.9	2Z	225.7	M4
114.8	2A	229.1	9Z
118.8	2B	233.6	M5
123.0	3Z	241.8	M6
127.3	3A	250.3	M7
131.8	3B	254.1	0Z

DCSS (Digital Coded Squelch System) CODES

NORMAL	INVERTED	NORMAL	INVERTED	NORMAL	INVERTED	NORMAL	INVERTED
023	047	155	731	325	526	516	432
025	244	156	265	331	465	523	246
026	464	162	503	332	455	526	325
031	627	165	251	343	532	532	343
036	172	172	036	346	612	546	132
043	445	174	074	351	243	565	703
047	023	205	263	364	131	606	631
051	032	212	356	365	125	612	346
053	452	223	134	371	734	624	632
054	413	225	122	411	226	627	031
065	271	226	411	412	143	631	606
071	306	243	351	413	054	632	624
072	245	244	025	423	315	654	743
073	506	245	072	431	723	662	466
074	174	246	523	432	516	664	311
114	712	251	165	445	043	703	565
115	152	252	462	446	255	712	114
116	754	255	446	452	053	723	431
122	225	261	732	454	266	731	155
125	365	263	205	455	332	732	261
131	364	265	156	462	252	734	371
132	546	266	454	464	026	743	654

DCSS (Digital Coded Squelch System) CODES

NORMAL	INVERTED	NORMAL	INVERTED	NORMAL	INVERTED	NORMAL	INVERTED
134	223	271	065	465	331	754	116
143	412	274	145	466	662		
145	274	306	071	503	162		
152	115	311	664	506	073		
032	051	315	423				

NAC – NETWORK ACCESS CODES

\$293	Default National NAC
\$68	Default Federal NAC
\$F7E	Receiver will un-squelch with ANY incoming NAC
\$F7F	Repeater will repeat with ANY incoming NAC and will retransmit the received NAC

TGID – TALKGROUP ID

\$0001	Default
\$0000	Talkgroup ID reserved for individual call
\$FFFF	Talkgroup ID which includes everyone

STARCOM UNIT ID

0	No one – never associated with a radio unit
1 - 9999998	As assigned by Motorola
9999999	Default inactive unit ID

NUMBER SYSTEMS

Many issues arise due to the confusion concerning the various number systems used when configuring radios and systems:

Binary numbers are based upon two symbols (0-1). They are not generally used in communications work.

Decimal numbers are based upon ten symbols (0-1-2-3-4-5-6-7-8-9). Decimal numbers are those we are most familiar with.

Hexadecimal numbers are based upon 16 symbols (0-1-2-3-4-5-6-7-8-9-A-B-C-D-E-F). **Always use a '\$' prefix when specifying Hexadecimal numbers.**

It is critical to use the proper number system, including the proper prefix (\$) in the case of hexadecimal numbers, to prevent misprogramming of radios. Note that some programming software may use different numbering systems for data entry. You can convert between number systems with Microsoft Windows Calculator.

NUMBER SYSTEMS USED IN THIS GUIDE		
NUMBER TYPE	SPECIFY AS	EXAMPLE
Starcom System ID	Hexadecimal	\$140
Starcom Unit ID	Decimal	1101034
Starcom Talkgroup ID	Hexadecimal	\$7678
Network Access Code	Hexadecimal	\$F7E

GLOSSARY

Acronym	Definition
CASM	Communication Assets Survey and Mapping
COMC	Communications Coordinator
COML	Communications Unit Leader
COMT	Communications Technician
ICS	Incident Command System
IL-TERT	Illinois Telecommunications Emergency Response Taskforce
INCM	Incident Communications Center Manager
ITECS	Illinois Transportable Emergency Communications System
MCC	Mobile Communication Center
MHz	Megahertz
NIP	National Interoperable Pool
NIMS	National Incident Management System
RADO	Radio Operator
SCIP	Statewide Communications Interoperability Plan
SEOC	State Emergency Operation Center
SIEC	Statewide Interoperability Executive Committee
SOP	Standard Operating Procedure
SOW	Site On Wheels (STARCOM21)
STR	Strategic Technology Reserve

Acronym	Definition
SWIC	Statewide Interoperability Coordinator
THSP	Technical Specialist
TICP	Tactical Interoperable Communications Plan
TST	Technology Support Teams
UAC	Unified Area Command vehicle
UCP	Unified Command Post (vehicle)

Notes

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 (i.e., ISPERN, IREACH, IFERN, etc.) will 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 talkgroup.
- ❖ 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.
- ❖ Multiple conversations on the same talkgroup 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 patches. 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.