



STATEWIDE INTEROPERABILITY TEMPLATE (SWIT) VHF/UHF/700/800/STARCOM21 PROGRAMMING GUIDE

FIRE/EMS RADIOS

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The Illinois Statewide Interoperability Template (SWIT) has been created and is maintained by the Technology Sub-Committee under the authority of, and approved by, the Illinois Statewide Interoperability Executive Committee (ILSIEC).

Questions concerning the SWIT can be forwarded to the Illinois Statewide Interoperability Coordinator (SWIC) by calling the IEMA-OHS Operations Center at 217-782-7860 or emailing ema.swic@illinois.gov.

This programming guide is for Fire/EMS agency radios only.

Law Enforcement, EMS only, Public Works/DOT, Emergency Management and other non-fire/EMS users are directed to use the discipline-specific programming guidance for your type of agency.

General Notes:

- Appropriate state and national interoperable channels should be programmed into all public safety portable and mobile radios. Recommended zones shown in this document are intended for 16 channels per zone. Interoperability zones should be programmed into radios in the order shown within this programming guide. Users may add local zones and channels before and/or after the appropriate interoperability zones. Agencies may desire that radios include the outdated ITTF zones BA, BB and BZ to facilitate interoperability during the transition from the ITTF to SWIT templates. If this is the case, ITTF zones BA and BB should be inserted prior to the SWIT CALLING Zone and ITTF zone BZ inserted after SWIT SECURE BY.
- Not all radios in use today will be capable of using the P25 digital or secure (encrypted) channels listed in this document. Agencies should ensure that all appropriate channels for use by their discipline, that the radio is capable of, are programmed.
- Per FCC rule, if a radio is programmed with any of the 700 MHz interoperability channels, the radio must be programmed to operate on all of the nationwide narrowband interoperability channels. (47 CFR 90.547)
- All 700/800 MHz mobile and portable radios should be programmed with the 700/800 MHz interoperability channels contained herein, regardless if they are using STARCOM21 or other primary radio system.
- Tone (CTCSS) frequencies listed in the table are in Hertz (Hz). A "D" followed by a three digit number represents a Digital Coded Squelch (DCS) code. For example D156 is DCS code 156 (normal). No inverted DCS codes are utilized.
- All STARCOM21 radios used by field personnel must be programmed with the Calling, Incident A, Incident B and Reserve zones.
- Encrypted channels listed in this template require P25 digital radios with AES-256 multi-key hardware encryption.
- All new radios purchased that include encryption for use on the STARCOM21 system must be equipped with AES-256 multi-key encryption with OTAR. All AES-256 multi-key equipped field radios must be programmed with the SECURE A and SECURE B and SWIT-BY zones.
- The following color coding is used in the non-trunked portion of this document to assist with identification of conventional analog, P25 digital and P25 digital secure (encrypted) channels:

Conventional Analog

P25 Digital

P25 Digital Secure

- 9(a). The following color coding is used in the trunking portion of this document to assist with the identification of general use talkgroups and secure (encrypted) talkgroups.

Trunked General Use

Trunked Secure

10. P25 NAC codes listed in the following tables are presented in a hexadecimal format. The Talkgroup ID for all P25 channels should be programmed as Hex \$00001. Radios should be programmed to receive any talkgroup ID on the conventional channels.
11. Programming of encryption keys must be in compliance with SIEC policies and procedures. Fire service (as well as law and 9-1-1) keys have special restrictions. SIEC encryption keys must be used; local encryption keys are not permitted on SWIT defined interoperable frequencies.
12. Channel positions labeled "RESERVED" should remain unprogrammed in radios. This will permit COM-L and/or COM-T reprogramming in the field to meet the needs of a major incident or event.
13. For the VFED-IR, VFED-LE and UFED-LE channels identified in the SWIT with encryption as "Selectable", be advised that encryption is optional and may be used. If desired, radios should be programmed for selectable encryption with the SLN/CKR identified in the SWIT.
14. Initial and ongoing training for interoperable communications is imperative for successful outcomes of major incidents, disasters and events. All public safety radio users should receive adequate initial and annual training regarding the SWIT and the operation of their communications equipment.
15. **Zones should be programmed into radios in the order shown on the Visor Reference Card at the end of this document. Local use zones can be added before and/or after the SWIT zones.**

700/800 MHz INTEROPERABILITY SPECIAL INFORMATION

The following information details the Primary Use for the 700/800 channels based on the embedded code within the channel name. For example: 8CALL90 is a "Calling Channel".

CALL	Calling Channel
TAC	General Public Safety - Tactical/Coordination
LAW	Law Enforcement
FIRE	Fire Department
EMS	Emergency Medical Services
GTAC	Other Public Service
MOB	Mobile Repeater
DATA	Mobile Data
AG	Air-Ground
FTAC	Fire Tactical (analog)
LTAC	Law Tactical (analog)
MTAC	EMS/Medical Tactical (analog)
US	National Itinerant - Convoy Operations (analog or digital)

AES-256 encryption is authorized on many 700 MHz interoperability frequencies. Zone SWIT-SECURE BY has been established to provide 700 MHz interoperable secure conventional communications in Illinois. Encryption for other 700 MHz frequencies/zones in Illinois is discouraged.



IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

STARCOM21 EQUIPPED RADIOS

ZONE NAME: CALLING

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	IL-CALL	CALL	IESMA	BA	7678	30328	Yes	N/A	No
2	ILEAS	ILEAS	ILEAS	BA	7679	30329	Yes	N/A	No
3	MABAS	MABAS	MABAS	BA	767A	30330	Yes	N/A	No
4	IDPH	IDPH	IDPH	BA	767B	30331	Yes	N/A	No
5	IPWMAN	IPWMAN	IPWMAN	BA	7683	30339	Yes	N/A	No
6	EMA	EMA	NORTH A	BA	765C	30300	Yes	N/A	No
7	IL-RGN 2	RGN 2	RGN 2B	BB	7660	30304	Yes	N/A	No
8	IL-RGN 3	RGN 3	RGN 3B	BB	7662	30306	Yes	N/A	No
9	IL-RGN 4	RGN 4	RGN 4B	BB	7670	30320	Yes	N/A	No
10	IL-RGN 6	RGN 6	RGN 6B	BB	7672	30322	Yes	N/A	No
11	IL-RGN 7	RGN 7	RGN 7B	BB	7674	30324	Yes	N/A	No
12	IL-RGN 8	RGN 8	RGN 8B	BB	7676	30326	Yes	N/A	No
13	IL-RGN 9	RGN 9	RGN 9B	BB	7680	30336	Yes	N/A	No
14	IL-RGN11	RGN 11	RGN 11B	BB	7682	30338	Yes	N/A	No
15	IL-102A	102A	SOUTH A	BA	765E	30302	Yes	N/A	No
16	IL-102B	102B	SOUTH B	BA	7688	30344	Yes	N/A	No

Note: All STARCOM21 radios used by field personnel must be programmed with the Calling, Incident A, Incident B and Reserve zones. All new radios purchased that include encryption must be equipped with AES-256 multi-key encryption with OTAR. All AES-256 multi-key equipped field radios must be programmed with the SECURE A and SECURE B and SWIT-BY zones.

STARCOM21 EQUIPPED RADIOS

ZONE NAME: INCIDENT A

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	IL-INC A1	INC A1	INCIDNT1	BA	767C	30332	Yes	N/A	No
2	IL-INC A2	INC A2	INCIDNT2	BA	767D	30333	Yes	N/A	No
3	IL-INC A3	INC A3	INCIDNT3	BA	767E	30334	Yes	N/A	No
4	IL-INC A4	INC A4	INCIDNT4	BA	7684	30340	Yes	N/A	No
5	IL-INC A5	INC A5	INCIDNT5	BA	7685	30341	Yes	N/A	No
6	IL-INC A6	INC A6	RGN 2A	BB	765F	30303	Yes	N/A	No
7	IL-INC A7	INC A7	RGN 3A	BB	7661	30305	Yes	N/A	No
8	IL-INC A8	INC A8	RGN 4A	BB	7663	30307	Yes	N/A	No
9	IL-INC A9	INC A9	RGN 6A	BB	7671	30321	Yes	N/A	No
10	IL-INC A10	INC A10	RGN 7A	BB	7673	30323	Yes	N/A	No
11	IL-INC A11	INC A11	RGN 8A	BB	7675	30325	Yes	N/A	No
12	IL-INC A12	INC A12	RGN 9A	BB	767F	30335	Yes	N/A	No
13	IL-INC A13	INC A13	RGN 11A	BB	7681	30337	Yes	N/A	No
14	IL-INC A14	INC A14	NORTH B	BA	7686	30342	Yes	N/A	No
15	IL-INC A15	INC A15	CENTER A	BA	765D	30301	Yes	N/A	No
16	IL-INC A16	INC A16	CENTER B	BA	7687	30343	Yes	N/A	No

Note: Use of INCIDENT A talkgroups must be approved through the SWIC/IEMA-OHS Operations Center. Requests should be made via the IL-CALL SC21 Talkgroup, 217-782-7860 and/or ema.dispatcher@illinois.gov.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

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STARCOM21 EQUIPPED RADIOS

ZONE NAME: INCIDENT B

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	IL-INC B1	INC B1	(NEW)	N/A	90F4	37108	Yes	N/A	No
2	IL-INC B2	INC B2	(NEW)	N/A	90F5	37109	Yes	N/A	No
3	IL-INC B3	INC B3	(NEW)	N/A	90F6	37110	Yes	N/A	No
4	IL-INC B4	INC B4	(NEW)	N/A	90F7	37111	Yes	N/A	No
5	IL-INC B5	INC B5	(NEW)	N/A	90F8	37112	Yes	N/A	No
6	IL-INC B6	INC B6	(NEW)	N/A	90F9	37113	Yes	N/A	No
7	IL-INC B7	INC B7	(NEW)	N/A	90FA	37114	Yes	N/A	No
8	IL-INC B8	INC B8	(NEW)	N/A	90FB	37115	Yes	N/A	No
9	IL-INC B9	INC B9	(NEW)	N/A	90FC	37116	Yes	N/A	No
10	IL-INC B10	INC B10	(NEW)	N/A	90FD	37117	Yes	N/A	No
11	IL-INC B11	INC B11	(NEW)	N/A	90FE	37118	Yes	N/A	No
12	IL-INC B12	INC B12	(NEW)	N/A	90FF	37119	Yes	N/A	No
13	IL-INC B13	INC B13	(NEW)	N/A	9100	37120	Yes	N/A	No
14	IL-INC B14	INC B14	(NEW)	N/A	9101	37121	Yes	N/A	No
15	IL-INC B15	INC B15	(NEW)	N/A	9102	37122	Yes	N/A	No
16	IL-INC B16	INC B16	(NEW)	N/A	9103	37123	Yes	N/A	No

Note: Use of INCIDENT B talkgroups must be approved through the SWIC/IEMA-OHS Operations Center. Requests should be made via the IL-CALL SC21 Talkgroup, 217-782-7860 and/or ema.dispatcher@illinois.gov.

STARCOM21 EQUIPPED RADIOS

ZONE NAME: SECURE A

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	IL-SEC A1	SEC A1	SECURE1	BZ	1749	5961	Yes	1401	Yes
2	IL-SEC A2	SEC A2	SECURE2	BZ	174A	5962	Yes	1401	Yes
3	IL-SEC A3	SEC A3	SECURE3	BZ	174B	5963	Yes	1401	Yes
4	IL-SEC A4	SEC A4	SECURE4	BZ	174C	5964	Yes	1401	Yes
5	IL-SEC A5	SEC A5	SECURE5	BZ	174D	5965	Yes	1401	Yes
6	IL-SEC A6	SEC A6	SECURE6	BZ	174E	5966	Yes	1401	Yes
7	BLANK								
8	BLANK								
9	BLANK								
10	BLANK								
11	IL-SECFIRE11	SECFIR11	SECFIRE1	BZ	1753	5971	Yes	1403	Yes
12	IL-SECFIRE12	SECFIR12	SECFIRE2	BZ	1754	5972	Yes	1403	Yes
13	IL-SECEMA13	SECEMA13	SECEMA1	BZ	1755	5973	Yes	1404	Yes
14	IL-SECEMA14	SECEMA14	SECEMA2	BZ	1756	5974	Yes	1404	Yes
15	IL-SECDOT15	SECDOT15	SECDOT1	BZ	1757	5975	Yes	1405	Yes
16	IL-SECDOT16	SECDOT16	SECDOT2	BZ	1758	5976	Yes	1405	Yes

Notes: Use of SECURE A talkgroups must be approved through the SWIC/IEMA-OHS Operations Center. Requests should be made via the IL-CALL SC21 Talkgroup, 217-782-7860 and/or ema.dispatcher@illinois.gov.

Use of these talkgroups requires radios equipped with AES-256 multi-key hardware encryption.

Programming of encryption keys must be in compliance with SIEC policies and procedures. Fire service keys (as well as law enforcement and 9-1-1 keys) have special restrictions. Fire Talkgroups/Keys are restricted to authorized Fire, COM-L and cache radios.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

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STARCOM21 EQUIPPED RADIOS

ZONE NAME: SECURE B

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	IL-SEC B1	SEC B1	(NEW)	N/A	9114	37140	Yes	1401	Yes
2	IL-SEC B2	SEC B2	(NEW)	N/A	9115	37141	Yes	1401	Yes
3	IL-SEC B3	SEC B3	(NEW)	N/A	9116	37142	Yes	1401	Yes
4	IL-SEC B4	SEC B4	(NEW)	N/A	9117	37143	Yes	1401	Yes
5	IL-SEC B5	SEC B5	(NEW)	N/A	9118	37144	Yes	1401	Yes
6	IL-SEC B6	SEC B6	(NEW)	N/A	9119	37145	Yes	1401	Yes
7	IL-SEC B7	SEC B7	(NEW)	N/A	911A	37146	Yes	1401	Yes
8	IL-SEC B8	SEC B8	(NEW)	N/A	911B	37147	Yes	1401	Yes
9	IL-SEC B9	SEC B9	(NEW)	N/A	911C	37148	Yes	1401	Yes
10	IL-SEC B10	SEC B10	(NEW)	N/A	911D	37149	Yes	1401	Yes
11	IL-SEC B11	SEC B11	(NEW)	N/A	911E	37150	Yes	1401	Yes
12	IL-SEC B12	SEC B12	(NEW)	N/A	911F	37151	Yes	1401	Yes
13	IL-SEC B13	SEC B13	(NEW)	N/A	9120	37152	Yes	1401	Yes
14	IL-SEC B14	SEC B14	(NEW)	N/A	9121	37153	Yes	1401	Yes
15	IL-SEC B15	SEC B15	(NEW)	N/A	9122	37154	Yes	1401	Yes
16	IL-SEC B16	SEC B16	(NEW)	N/A	9123	37155	Yes	1401	Yes

Notes: All notes for zone SECURE A also apply to zone SECURE B.

STARCOM21 EQUIPPED RADIOS

ZONE NAME: RESERVE A

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	IL-RSV A1	RSV A1	(NEW)	N/A	9104	37124	Yes	N/A	No
2	IL-RSV A2	RSV A2	(NEW)	N/A	9105	37125	Yes	N/A	No
3	IL-RSV A3	RSV A3	(NEW)	N/A	9106	37126	Yes	N/A	No
4	IL-RSV A4	RSV A4	(NEW)	N/A	9107	37127	Yes	N/A	No
5	IL-RSV A5	RSV A5	(NEW)	N/A	9108	37128	Yes	N/A	No
6	IL-RSV A6	RSV A6	(NEW)	N/A	9109	37129	Yes	N/A	No
7	IL-RSV A7	RSV A7	(NEW)	N/A	910A	37130	Yes	N/A	No
8	IL-RSV A8	RSV A8	(NEW)	N/A	910B	37131	Yes	N/A	No
9	IL-RSV A9	RSV A9	(NEW)	N/A	910C	37132	Yes	N/A	No
10	IL-RSV A10	RSV A10	(NEW)	N/A	910D	37133	Yes	N/A	No
11	IL-RSV A11	RSV A11	(NEW)	N/A	910E	37134	Yes	N/A	No
12	IL-RSV A12	RSV A12	(NEW)	N/A	910F	37135	Yes	N/A	No
13	IL-RSV A13	RSV A13	(NEW)	N/A	9110	37136	Yes	N/A	No
14	IL-RSV A14	RSV A14	(NEW)	N/A	9111	37137	Yes	N/A	No
15	IL-RSV A15	RSV A15	(NEW)	N/A	9112	37138	Yes	N/A	No
16	IL-RSV A16	RSV A16	(NEW)	N/A	9113	37139	Yes	N/A	No

Notes: Use of RESERVE A talkgroups must be approved through the SWIC/IEMA-OHS Operations Center. Requests should be made via the IL-CALL SC21 Talkgroup, 217-782-7860 and/or ema_dispatcher@illinois.gov.

RESERVE A talkgroups should be pre-programmed in STARCOM21 capable radios. These talkgroups will not be active unless needed, as determined by the SWIC.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

STARCOM21 EQUIPPED RADIOS

ZONE NAME: MABAS

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	MABAS	MABAS	MABAS	BA	767A	30330	Yes		No
2	MABAS SEC	MAB SEC	MABASSEC	MABAS	12DF	4831	Yes	1501	Yes
3	MABAS OPS1	OPS1	OPS	MABAS	12DE	4830	Yes		No
4	MABAS OPS2	OPS2	(NEW)	MABAS	12E4	4836	Yes		No
5	MABAS OPS3E	OPS3E	OPS SEC	MABAS	12E7	4839	Yes	1501	Yes
6	MABAS OPS4E	OPS4E	(NEW)	MABAS	12E8	4840	Yes	1501	Yes
7	IL-HZMT	HZMT	HAZMAT	MABAS	12DB	4827	Yes		No
8	IL-HZMT SEC	HZMT SEC	HZMT SEC	MABAS	12E1	4833	Yes	1501	Yes
9	IL-TRT	TRT	TRT	MABAS	12DC	4828	Yes		No
10	IL-TRT SEC	TRT SEC	TRT SEC	MABAS	12E2	4834	Yes	1501	Yes
11	RESERVED								
12	RESERVED								
13	RESERVED								
14	RESERVED								
15	RESERVED								
16	RESERVED								

Notes: Channels 1 - 10 approved for general programming in all Fire Department, Fire Dispatch, COM-L and authorized cache radios. Use of the encrypted talkgroups requires radios equipped with AES-256 multi-key hardware encryption.

NWS

Channel Position	Front Display	Top Display	Legacy Name	Legacy Zone	Talkgroup Hex ID	Talkgroup Dec ID	Talkgroup Statewide	SLN/CKR	TG Set AES Always
1	NWS-CHI	NWSCHI	(NEW)	N/A	9124	37156	Yes	N/A	No
2	NWS-QUAD	NWSQUAD	(NEW)	N/A	9125	37157	Yes	N/A	No
3	NWS-LINC	NWSLINC	(NEW)	N/A	9126	37158	Yes	N/A	No
4	NWS-STL	NWSSTL	(NEW)	N/A	9127	37159	Yes	N/A	No
5	NWS-PDK	NWSPDK	(NEW)	N/A	9128	37160	Yes	N/A	No
6	NWS-MKE	NWSMKE	(NEW)	N/A	9129	37161	Yes	N/A	No
7	NWS-SW	NWS-SW	(NEW)	N/A	912A	37162	Yes	N/A	No
8	RESERVED								
9	RESERVED								
10	RESERVED								
11	RESERVED								
12	RESERVED								
13	RESERVED								
14	RESERVED								
15	RESERVED								
16	RESERVED								

Note: Governance for National Weather Service talkgroups is pending. NWS talkgroups may also be programmed into local zones to facilitate ease of operation by the end-user.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

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700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BC

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	8CALL90D	8CALL90D	851.0125	156.7	851.0125	156.7	No	No	N/A
2	8TAC91D	8TAC91D	851.5125	156.7	851.5125	156.7	No	No	N/A
3	8TAC92D	8TAC92D	852.0125	156.7	852.0125	156.7	No	No	N/A
4	8TAC93D	8TAC93D	852.5125	156.7	852.5125	156.7	No	No	N/A
5	8TAC94D	8TAC94D	853.0125	156.7	853.0125	156.7	No	No	N/A
6	8CALL90	8CALL90	851.0125	156.7	806.0125	156.7	No	No	N/A
7	8TAC91	8TAC91	851.5125	156.7	806.5125	156.7	No	No	N/A
8	8TAC92	8TAC92	852.0125	156.7	807.0125	156.7	No	No	N/A
9	8TAC93	8TAC93	852.5125	156.7	807.5125	156.7	No	No	N/A
10	8TAC94	8TAC94	853.0125	156.7	808.0125	156.7	No	No	N/A
11	RESERVED								
12	RESERVED								
13	RESERVED								
14	RESERVED								
15	RESERVED								
16	RESERVED								

Note: Zone SWIT-BC is equivalent to the outdated ITTF-BC.

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BD

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7CALL50D	7CALL50D	769.24375	\$F7E	769.24375	\$293	Yes	No	N/A
2	7TAC51D	7TAC51D	769.14375	\$F7E	769.14375	\$293	Yes	No	N/A
3	7TAC52D	7TAC52D	769.64375	\$F7E	769.64375	\$293	Yes	No	N/A
4	7TAC53D	7TAC53D	770.14375	\$F7E	770.14375	\$293	Yes	No	N/A
5	7TAC54D	7TAC54D	770.64375	\$F7E	770.64375	\$293	Yes	No	N/A
6	7TAC55D	7TAC55D	769.74375	\$F7E	769.74375	\$293	Yes	No	N/A
7	7TAC56D	7TAC56D	770.24375	\$F7E	770.24375	\$293	Yes	No	N/A
8	7GTAC57D	7GTAC57D	770.99375	\$F7E	770.99375	\$293	Yes	No	N/A
9	7CALL50	7CALL50	769.24375	\$F7E	799.24375	\$293	Yes	No	N/A
10	7TAC51	7TAC51	769.14375	\$F7E	799.14375	\$293	Yes	No	N/A
11	7TAC52	7TAC52	769.64375	\$F7E	799.64375	\$293	Yes	No	N/A
12	7TAC53	7TAC53	770.14375	\$F7E	800.14375	\$293	Yes	No	N/A
13	7TAC54	7TAC54	770.64375	\$F7E	800.64375	\$293	Yes	No	N/A
14	7TAC55	7TAC55	769.74375	\$F7E	799.74375	\$293	Yes	No	N/A
15	7TAC56	7TAC56	770.24375	\$F7E	800.24375	\$293	Yes	No	N/A
16	7GTAC57	7GTAC57	770.99375	\$F7E	800.99375	\$293	Yes	No	N/A

Notes: 7CALL50 and 7CALL50D is the recommended PRIMARY calling channel for the 700 MHz band.
Zone SWIT-BD is equivalent to the outdated ITTF-BD.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BE

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7MOB59D	7MOB59D	770.89375	\$F7E	770.89375	\$293	Yes	No	N/A
2	7DATA69D	7DATA69D	770.74375	\$F7E	770.74375	\$293	Yes	No	N/A
3	7LAW61D	7LAW61D	770.39375	\$F7E	770.39375	\$293	Yes	No	N/A
4	7LAW62D	7LAW62D	770.49375	\$F7E	770.49375	\$293	Yes	No	N/A
5	7FIRE63D	7FIRE63D	769.89375	\$F7E	769.89375	\$293	Yes	No	N/A
6	7FIRE64D	7FIRE64D	769.99375	\$F7E	769.99375	\$293	Yes	No	N/A
7	7MED65D	7MED65D	769.39375	\$F7E	769.39375	\$293	Yes	No	N/A
8	7MED66D	7MED66D	769.49375	\$F7E	769.49375	\$293	Yes	No	N/A
9	7MOB59	7MOB59	770.89375	\$F7E	800.89375	\$293	Yes	No	N/A
10	7DATA69	7DATA69	770.74375	\$F7E	800.74375	\$293	Yes	No	N/A
11	7LAW61	7LAW61	770.39375	\$F7E	800.39375	\$293	Yes	No	N/A
12	7LAW62	7LAW62	770.49375	\$F7E	800.49375	\$293	Yes	No	N/A
13	7FIRE63	7FIRE63	769.89375	\$F7E	799.89375	\$293	Yes	No	N/A
14	7FIRE64	7FIRE64	769.99375	\$F7E	799.99375	\$293	Yes	No	N/A
15	7MED65	7MED65	769.39375	\$F7E	799.39375	\$293	Yes	No	N/A
16	7MED66	7MED66	769.49375	\$F7E	799.49375	\$293	Yes	No	N/A

Note: Voice communications are permitted on 7DATA69 and 7DATA69D on a secondary basis. (FCC Rule 90.531(b)(1)(i))

Zone SWIT-BE is equivalent to the outdated ITTF-BE except for 7DATA69D & 7DATA69 that have been added in Channels 2 & 10 respectively.

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BF

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7CALL70D	7CALL70D	773.25625	\$F7E	773.25625	\$293	Yes	No	N/A
2	7TAC71D	7TAC71D	773.10625	\$F7E	773.10625	\$293	Yes	No	N/A
3	7TAC72D	7TAC72D	773.60625	\$F7E	773.60625	\$293	Yes	No	N/A
4	7TAC73D	7TAC73D	774.10625	\$F7E	774.10625	\$293	Yes	No	N/A
5	7TAC74D	7TAC74D	774.60625	\$F7E	774.60625	\$293	Yes	No	N/A
6	7TAC75D	7TAC75D	773.75625	\$F7E	773.75625	\$293	Yes	No	N/A
7	7TAC76D	7TAC76D	774.25625	\$F7E	774.25625	\$293	Yes	No	N/A
8	7GTAC77D	7GTAC77D	774.85625	\$F7E	774.85625	\$293	Yes	No	N/A
9	7CALL70	7CALL70	773.25625	\$F7E	803.25625	\$293	Yes	No	N/A
10	7TAC71	7TAC71	773.10625	\$F7E	803.10625	\$293	Yes	No	N/A
11	7TAC72	7TAC72	773.60625	\$F7E	803.60625	\$293	Yes	No	N/A
12	7TAC73	7TAC73	774.10625	\$F7E	804.10625	\$293	Yes	No	N/A
13	7TAC74	7TAC74	774.60625	\$F7E	804.60625	\$293	Yes	No	N/A
14	7TAC75	7TAC75	773.75625	\$F7E	803.75625	\$293	Yes	No	N/A
15	7TAC76	7TAC76	774.25625	\$F7E	804.25625	\$293	Yes	No	N/A
16	7GTAC77	7GTAC77	774.85625	\$F7E	804.85625	\$293	Yes	No	N/A

Notes: 7CALL70 and 7CALL70D are the recommended SECONDARY calling channels for the 700 MHz band.

Zone SWIT-BF is equivalent to the outdated ITTF-BF.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BG

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7MOB79D	7MOB79D	774.50625	\$F7E	774.50625	\$293	Yes	No	N/A
2	7DATA89D	7DATA89D	774.75625	\$F7E	774.75625	\$293	Yes	No	N/A
3	7LAW81D	7LAW81D	774.00625	\$F7E	774.00625	\$293	Yes	No	N/A
4	7LAW82D	7LAW82D	774.35625	\$F7E	774.35625	\$293	Yes	No	N/A
5	7FIRE83D	7FIRE83D	773.50625	\$F7E	773.50625	\$293	Yes	No	N/A
6	7FIRE84D	7FIRE84D	773.85625	\$F7E	773.85625	\$293	Yes	No	N/A
7	7MED86D	7MED86D	773.00625	\$F7E	773.00625	\$293	Yes	No	N/A
8	7MED87D	7MED87D	773.35625	\$F7E	773.35625	\$293	Yes	No	N/A
9	7MOB79	7MOB79	774.50625	\$F7E	804.50625	\$293	Yes	No	N/A
10	7DATA89	7DATA89	774.75625	\$F7E	804.75625	\$293	Yes	No	N/A
11	7LAW81	7LAW81	774.00625	\$F7E	804.00625	\$293	Yes	No	N/A
12	7LAW82	7LAW82	774.35625	\$F7E	804.35625	\$293	Yes	No	N/A
13	7FIRE83	7FIRE83	773.50625	\$F7E	803.50625	\$293	Yes	No	N/A
14	7FIRE84	7FIRE84	773.85625	\$F7E	803.85625	\$293	Yes	No	N/A
15	7MED86	7MED86	773.00625	\$F7E	803.00625	\$293	Yes	No	N/A
16	7MED87	7MED87	773.35625	\$F7E	803.35625	\$293	Yes	No	N/A

Note: Voice communications are permitted on 7DATA89 and 7DATA89D on a secondary basis. (FCC Rule 90.531(b)(1)(i))

Zone SWIT-BG is equivalent to the outdated ITTF-BG except for 7DATA89D & 7DATA89 that have been added in Channels 2 & 10 respectively.

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BH

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7FTAC1D	7FTAC1D	769.00625	156.7	769.00625	156.7	No	No	N/A
2	7FTAC2D	7FTAC2D	774.93125	156.7	774.93125	156.7	No	No	N/A
3	7FTAC3D	7FTAC3D	769.04375	156.7	769.04375	156.7	No	No	N/A
4	7GTAC4D	7GTAC4D	769.03125	156.7	769.03125	156.7	No	No	N/A
5	7GTAC5D	7GTAC5D	774.95625	156.7	774.95625	156.7	No	No	N/A
6	7LTAC6D	7LTAC6D	769.01875	156.7	769.01875	156.7	No	No	N/A
7	7LTAC7D	7LTAC7D	774.94375	156.7	774.94375	156.7	No	No	N/A
8	7LTAC8D	7LTAC8D	774.98125	156.7	774.98125	156.7	No	No	N/A
9	7FTAC1	7FTAC1	769.00625	156.7	799.00625	156.7	No	No	N/A
10	7FTAC2	7FTAC2	774.93125	156.7	804.93125	156.7	No	No	N/A
11	7FTAC3	7FTAC3	769.04375	156.7	799.04375	156.7	No	No	N/A
12	7GTAC4	7GTAC4	769.03125	156.7	799.03125	156.7	No	No	N/A
13	7GTAC5	7GTAC5	774.95625	156.7	804.95625	156.7	No	No	N/A
14	7LTAC6	7LTAC6	769.01875	156.7	799.01875	156.7	No	No	N/A
15	7LTAC7	7LTAC7	774.94375	156.7	804.94375	156.7	No	No	N/A
16	7LTAC8	7LTAC8	774.98125	156.7	804.98125	156.7	No	No	N/A

Note: Zone BH channels are conventional analog and limited to two (2) watts ERP.

These channels are not nationwide interoperability channels and require FCC authorization and coordination with Regional Planning Committee Regions 13 & 54. The State of Illinois holds FCC Authorization WQZX653 that includes the frequencies listed herein and is granting the use of these frequencies to public safety and governmental users in compliance with this SWIT.

Zone SWIT-BH is equivalent to the outdated ITTF-BH.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BI

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7MTAC9D	7MTAC9D	774.96875	156.7	774.96875	156.7	No	No	N/A
2	A7-US-01D	A7US01D	769.05625	156.7	769.05625	156.7	No	No	N/A
3	A7-US-02D	A7US02D	769.06875	156.7	769.06875	156.7	No	No	N/A
4	A7-US-03D	A7US03D	774.99375	156.7	774.99375	156.7	No	No	N/A
5	7MTAC9	7MTAC9	774.96875	156.7	804.96875	156.7	No	No	N/A
6	A7-US-01	A7US01	769.05625	156.7	799.05625	156.7	No	No	N/A
7	A7-US-02	A7US02	769.06875	156.7	799.06875	156.7	No	No	N/A
8	A7-US-03	A7US03	774.99375	156.7	804.99375	156.7	No	No	N/A
9	7-US-01D	7US01D	769.05625	\$F7E	769.05625	\$293	Yes	No	N/A
10	7-US-02D	7US02D	769.06875	\$F7E	769.06875	\$293	Yes	No	N/A
11	7-US-03D	7US03D	774.99375	\$F7E	774.99375	\$293	Yes	No	N/A
12	7-US-01	7US01	769.05625	\$F7E	799.05625	\$293	Yes	No	N/A
13	7-US-02	7US02	769.06875	\$F7E	799.06875	\$293	Yes	No	N/A
14	7-US-03	7US03	774.99375	\$F7E	804.99375	\$293	Yes	No	N/A
15	RESERVED								
16	RESERVED								

Note: The 7-US- frequencies are 700 MHz Low Power Itinerant Channels licensed for itinerant mobile use (convoy operations). These channels are not nationwide interoperability channels. The State of Illinois (SIEC) is responsible for the administration of these channels.
 Transmit power for 7-US- channels, in either analog or digital mode, is limited to 2 watts ERP.
 It is recommended that radios are programmed for "mixed-mode" (analog & digital) receive for the 7-US- itinerant channels.
 Zone SWIT-BI Channels 1-8 are analog and are equivalent to the outdated ITTF-BI Channels 1-8.
 Zone SWIT-BI Channels 9-14 are digital equivalents to their matching analog Channels.

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-BJ

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7AG58D	7AG58D	769.13125	\$F7E	769.13125	\$293	Yes	No	N/A
2	7AG60D	7AG60D	769.63125	\$F7E	769.63125	\$293	Yes	No	N/A
3	7AG67D	7AG67D	770.13125	\$F7E	770.13125	\$293	Yes	No	N/A
4	7AG68D	7AG68D	770.63125	\$F7E	770.63125	\$293	Yes	No	N/A
5	7AG78D	7AG78D	773.11875	\$F7E	773.11875	\$293	Yes	No	N/A
6	7AG80D	7AG80D	773.61875	\$F7E	773.61875	\$293	Yes	No	N/A
7	7AG85D	7AG85D	774.11875	\$F7E	774.11875	\$293	Yes	No	N/A
8	7AG88D	7AG88D	774.61875	\$F7E	774.61875	\$293	Yes	No	N/A
9	7AG58	7AG58	769.13125	\$F7E	799.13125	\$293	Yes	No	N/A
10	7AG60	7AG60	769.63125	\$F7E	799.63125	\$293	Yes	No	N/A
11	7AG67	7AG67	770.13125	\$F7E	800.13125	\$293	Yes	No	N/A
12	7AG68	7AG68	770.63125	\$F7E	800.63125	\$293	Yes	No	N/A
13	7AG78	7AG78	773.11875	\$F7E	803.11875	\$293	Yes	No	N/A
14	7AG80	7AG80	773.61875	\$F7E	803.61875	\$293	Yes	No	N/A
15	7AG85	7AG85	774.11875	\$F7E	804.11875	\$293	Yes	No	N/A
16	7AG88	7AG88	774.61875	\$F7E	804.61875	\$293	Yes	No	N/A

Notes: These channels are reserved for air-ground communications to be used by low-altitude aircraft and ground based units. Airborne use of these channels is limited to aircraft flying at or below 1500 feet (457 meters) above ground level. Aircraft are limited to 2 watts effective radiated power on the air-ground channels while airborne. Aircraft may transmit on either the mobile or base transmit side of the channel pair. 7AG88D is recommended for landing zone use. Use of 7AG88 (repeated) is not recommended during landing zone operations. These channels are not nationwide interoperability channels.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

700/800 MHz EQUIPPED RADIOS

ZONE NAME: SWIT-SECURE BY

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	7MOB59DE	7MOB59DE	770.89375	\$F7E	770.89375	\$293	Yes	Yes*	1401
2	7MOB79DE	7MOB79DE	774.50625	\$F7E	774.50625	\$293	Yes	Yes*	1401
3	BLANK								
4	BLANK								
5	7FIRE83DE	7FIRE83DE	773.50625	\$F7E	773.50625	\$293	Yes	Yes*	1403
6	7FIRE84DE	7FIRE84DE	773.85625	\$F7E	773.85625	\$293	Yes	Yes*	1403
7	7MED86DE	7MED86DE	773.00625	\$F7E	773.00625	\$293	Yes	Yes*	1403
8	7MED87DE	7MED87DE	773.35625	\$F7E	773.35625	\$293	Yes	Yes*	1403
9	7MOB59E	7MOB59E	770.89375	\$F7E	800.89375	\$293	Yes	Yes*	1401
10	7MOB79E	7MOB79E	774.50625	\$F7E	804.50625	\$293	Yes	Yes*	1401
11	BLANK								
12	BLANK								
13	7FIRE83E	7FIRE83E	773.50625	\$F7E	803.50625	\$293	Yes	Yes*	1403
14	7FIRE84E	7FIRE84E	773.85625	\$F7E	803.85625	\$293	Yes	Yes*	1403
15	7MED86E	7MED86E	773.00625	\$F7E	803.00625	\$293	Yes	Yes*	1403
16	7MED87E	7MED87E	773.35625	\$F7E	803.35625	\$293	Yes	Yes*	1403

Note: Use of SWIT-SECURE BY frequencies must be approved through the SWIC/IEMA-OHS Operations Center. Requests should be made via the IL-CALL SC21 Talkgroup, 217-782-7860 and/or ema_dispatcher@illinois.gov.

***The intent of this zone is to operate in encrypted mode. Current FCC rules require that radios must be programmed with a button or feature that disables encryption on each channel in this zone without physically changing zones.**

VHF EQUIPPED RADIOS

ZONE NAME: VFIRE

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	IFERN	IFERN	154.2650	210.7	154.2650	210.7	No	No	N/A
2	IFERN2	IFERN2	154.3025	67.0	154.3025	67.0	No	No	N/A
3	VFIRE21	VFIRE21	154.2800	CSQ	154.2800	156.7	No	No	N/A
4	VFIRE22	VFIRE22	154.2650	CSQ	154.2650	156.7	No	No	N/A
5	VFIRE23	VFIRE23	154.2950	CSQ	154.2950	156.7	No	No	N/A
6	VFIRE24	VFIRE24	154.2725	CSQ	154.2725	156.7	No	No	N/A
7	VFIRE25	VFIRE25	154.2875	CSQ	154.2875	156.7	No	No	N/A
8	VFIRE26	VFIRE26	154.3025	CSQ	154.3025	156.7	No	No	N/A
9	IREACH	IREACH	155.0550	D156	155.0550	D156	No	No	N/A
10	ESMARN	ESMARN	155.0250	123.0	155.0250	123.0	No	No	N/A
11	GRAY FG	GRAY FG	154.2875	136.5	154.2875	136.5	No	No	N/A
12	BLACK FG	BLACK FG	154.2725	94.8	154.2725	94.8	No	No	N/A
13	GOLD FG	GOLD FG	153.8375	91.5	153.8375	91.5	No	No	N/A
14	BLUE FG	BLUE FG	154.2950	85.4	154.2950	85.4	No	No	N/A
15	WHITE FG	WHITE FG	154.2800	74.4	154.2800	74.4	No	No	N/A
16	RED FG	RED FG	153.8300	69.3	153.8300	69.3	No	No	N/A

Notes: VFIRE restricted to fire department use only.

IFERN, IFERN2 and FG (fireground) Channels restricted to MABAS member agencies. MABAS holds statewide FCC authorization(s) for MABAS, IREACH & ESMARN frequencies for member agencies.)

ESMARN and IREACH channels require local FCC radio authorizations at this time.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

VHF EQUIPPED RADIOS

ZONE NAME: VMED

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	MERCI340	MERCI340	155.3400	CSQ	155.3400	210.7	No	No	N/A
2	MERCI400	MERCI400	155.4000	CSQ	155.4000	210.7	No	No	N/A
3	VMED28	VMED28	155.3400	CSQ	155.3400	156.7	No	No	N/A
4	VMED29	VMED29	155.3475	CSQ	155.3475	156.7	No	No	N/A
5	VSAR16	VSAR16	155.1600	127.3	155.1600	127.3	No	No	N/A
6	RESERVED								
7	RESERVED								
8	RESERVED								
9	RESERVED								
10	RESERVED								
11	RESERVED								
12	RESERVED								
13	RESERVED								
14	RESERVED								
15	RESERVED								
16	RESERVED								

Notes: VMED restricted to licensed emergency medical services providers only.
 MERCI340 and MERCI400 channels require local FCC radio authorizations at this time.

VHF EQUIPPED RADIOS

ZONE NAME: VCALL

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	VCALL10	VCALL10	155.7525	156.7	155.7525	156.7	No	No	N/A
2	VTAC11	VTAC11	151.1375	156.7	151.1375	156.7	No	No	N/A
3	VTAC12	VTAC12	154.4525	156.7	154.4525	156.7	No	No	N/A
4	VTAC13	VTAC13	158.7375	156.7	158.7375	156.7	No	No	N/A
5	VTAC14	VTAC14	159.4725	156.7	159.4725	156.7	No	No	N/A
6	VTAC33	VTAC33	159.4725	156.7	151.1375	136.5	No	No	N/A
7	VTAC34	VTAC34	158.7375	156.7	154.4525	136.5	No	No	N/A
8	VTAC35	VTAC35	159.4725	156.7	158.7375	136.5	No	No	N/A
9	VTAC36	VTAC36	151.1375	156.7	159.4725	136.5	No	No	N/A
10	VTAC37	VTAC37	154.4525	156.7	158.7375	136.5	No	No	N/A
11	VTAC38	VTAC38	158.7375	156.7	159.4725	136.5	No	No	N/A
12	STL CALL	STL CALL	171.4375	\$653	162.8750	\$653	Yes	Selectable	N/A
13	STL TAC	STL TAC	171.6875	\$653	163.8375	\$653	Yes	Selectable	N/A
14	IEMA VHF1	VHF 1	155.9250	CSQ	155.9250	CSQ	No	No	N/A
15	ESMARN	ESMARN	155.0250	123.0	155.0250	123.0	No	No	N/A
16	IREACH	IREACH	155.0550	D156	155.0550	D156	No	No	N/A

Notes: ESMARN and IREACH channels require local FCC radio authorizations at this time. MABAS holds FCC authorization(s) for IREACH & ESMARN frequencies for member agencies. IEMA VHF1 authorization is held by the State of Illinois.
 STL CALL and STL TAC are part of the Federal 25 Cities interoperability plan for the St. Louis metro area as managed by the Federal Bureau of Investigation. These channels are for interdisciplinary coordination between Federal agencies and state and local public safety agencies. Federal agencies occasionally utilize encryption on the Federal 25 Cities systems.

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

VHF EQUIPPED RADIOS

ZONE NAME: VFED-IR

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	NC 1	NC 1	169.5375	CSQ	164.7125	167.9	No	No	N/A
2	IR 1	IR 1	170.0125	CSQ	165.2500	167.9	No	No	N/A
3	IR 2	IR 2	170.4125	CSQ	165.9625	167.9	No	No	N/A
4	IR 3	IR 3	170.6875	CSQ	166.5750	167.9	No	No	N/A
5	IR 4	IR 4	173.0375	CSQ	167.3250	167.9	No	No	N/A
6	IR 5	IR 5	169.5375	CSQ	169.5375	167.9	No	No	N/A
7	IR 6	IR 6	170.0125	CSQ	170.0125	167.9	No	No	N/A
8	IR 7	IR 7	170.4125	CSQ	170.4125	167.9	No	No	N/A
9	IR 8	IR 8	170.6875	CSQ	170.6875	167.9	No	No	N/A
10	IR 9	IR 9	173.0375	CSQ	173.0375	167.9	No	No	N/A
11	CG-COM-N	CGCOM-N	170.8125	\$653	163.6500	\$653	Yes	Selectable	N/A
12	CG-COM-C	CGCOM-C	171.6875	\$653	163.6500	\$653	Yes	Selectable	N/A
13	CG-COM-S	CGCOM-S	171.4375	\$653	163.6500	\$653	Yes	Selectable	N/A
14	CG-TAC-N	CGTAC-N	168.8875	\$653	163.7000	\$653	Yes	Selectable	N/A
15	CG-TAC-C	CGTAC-C	172.2125	\$653	163.7000	\$653	Yes	Selectable	N/A
16	CG-TAC-S	CGTAC-S	168.9125	\$653	163.7000	\$653	Yes	Selectable	N/A

Notes: CG-COM and CG-TAC are part of the Federal 25 Cities interoperability plan for the Chicago metro area as managed by the Federal Bureau of Investigation. CG-COM and CG-TAC are comprised of a three-site multicast voted system. These channels are for interdisciplinary coordination between Federal agencies and state and local public safety agencies. Federal agencies occasionally utilize encryption on the Federal 25 Cities systems.

UHF EQUIPPED RADIOS

ZONE NAME: UCALL

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	UCALL40D	UCALL40D	453.2125	156.7	453.2125	156.7	No	No	N/A
2	UTAC41D	UTAC41D	453.4625	156.7	453.4625	156.7	No	No	N/A
3	UTAC42D	UTAC42D	453.7125	156.7	453.7125	156.7	No	No	N/A
4	UTAC43D	UTAC43D	453.8625	156.7	453.8625	156.7	No	No	N/A
5	UCALL40	UCALL40	453.2125	156.7	458.2125	156.7	No	No	N/A
6	UTAC41	UTAC41	453.4625	156.7	458.4625	156.7	No	No	N/A
7	UTAC42	UTAC42	453.7125	156.7	458.7125	156.7	No	No	N/A
8	UTAC43	UTAC43	453.8625	156.7	458.8625	156.7	No	No	N/A
9	RESERVED								
10	RESERVED								
11	RESERVED								
12	RESERVED								
13	RESERVED								
14	RESERVED								
15	RESERVED								
16	RESERVED								

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO PROGRAMMING GUIDE

UHF EQUIPPED RADIOS

ZONE NAME: UFED-IR

Channel Position	Front Display	Top Display	Receive Frequency	Receive Tone/NAC	Transmit Frequency	Transmit Tone/NAC	P25 Digital	Encrypted	SLN/CKR
1	NC 2	NC 2	410.2375	CSQ	419.2375	167.9	No	No	N/A
2	IR 10	IR 10	410.4375	CSQ	419.4375	167.9	No	No	N/A
3	IR 11	IR 11	410.6375	CSQ	419.6375	167.9	No	No	N/A
4	IR 12	IR 12	410.8375	CSQ	419.8375	167.9	No	No	N/A
5	IR 13	IR 13	413.1875	CSQ	413.1875	167.9	No	No	N/A
6	IR 14	IR 14	413.2125	CSQ	413.2125	167.9	No	No	N/A
7	IR 15	IR 15	410.2375	CSQ	410.2375	167.9	No	No	N/A
8	IR 16	IR 16	410.4375	CSQ	410.4375	167.9	No	No	N/A
9	IR 17	IR 17	410.6375	CSQ	410.6375	167.9	No	No	N/A
10	IR 18	IR 18	410.8375	CSQ	410.8375	167.9	No	No	N/A
11	RESERVED								
12	RESERVED								
13	RESERVED								
14	RESERVED								
15	RESERVED								
16	RESERVED								

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO VISOR REFERENCE CARD

Zone Chan	OUTDATED ITTF BA	OUTDATED ITTF BB	SWIT CALLING	SWIT INCIDENT A	SWIT INCIDENT B	SWIT SECURE A	SWIT SECURE B	SWIT RESERVE	MABAS	NWS
1	IESMA	RGN 2A	IL-CALL	IL-INC A1	IL-INC B1	IL-SEC A1	IL-SEC B1	IL-RSV 1	MABAS	NWS-CHI
2	ILEAS	RGN 2B	ILEAS	IL-INC A2	IL-INC B2	IL-SEC A2	IL-SEC B2	IL-RSV 2	MABAS SEC	NWS-QUAD
3	MABAS	RGN 3A	MABAS	IL-INC A3	IL-INC B3	IL-SEC A3	IL-SEC B3	IL-RSV 3	MABAS OPS1	NWS-LINC
4	PUB HLTH	RGN 3B	IDPH	IL-INC A4	IL-INC B4	IL-SEC A4	IL-SEC B4	IL-RSV 4	MABAS OPS2	NWS-STL
5	IPWMAN	RGN 4A	IPWMAN	IL-INC A5	IL-INC B5	IL-SEC A5	IL-SEC B5	IL-RSV 5	MABAS OPS3E	NWS-PDK
6	INCIDENT1	RGN 4B	EMA	IL-INC A6	IL-INC B6	IL-SEC A6	IL-SEC B6	IL-RSV 6	MABAS OPS4E	NWS-MKE
7	INCIDENT2	RGN 6A	IL-RGN 2	IL-INC A7	IL-INC B7	BLANK	IL-SEC B7	IL-RSV 7	IL-HZMT	NWS-SW
8	INCIDENT3	RGN 6B	IL-RGN 3	IL-INC A8	IL-INC B8	BLANK	IL-SEC B8	IL-RSV 8	IL-HZMT SEC	BLANK
9	INCIDENT4	RGN 7A	IL-RGN 4	IL-INC A9	IL-INC B9	BLANK	IL-SEC B9	IL-RSV 9	IL-TRT	BLANK
10	INCIDENT5	RGN 7B	IL-RGN 6	IL-INC A10	IL-INC B10	BLANK	IL-SEC B10	IL-RSV 10	IL-TRT SEC	BLANK
11	NORTH A	RGN 8A	IL-RGN 7	IL-INC A11	IL-INC B11	IL-SECFIRE11	IL-SEC B11	IL-RSV 11	RESERVED	BLANK
12	NORTH B	RGN 8B	IL-RGN 8	IL-INC A12	IL-INC B12	IL-SECFIRE12	IL-SEC B12	IL-RSV 12	RESERVED	BLANK
13	CENTER A	RGN 9A	IL-RGN 9	IL-INC A13	IL-INC B13	IL-SECCEMA13	IL-SEC B13	IL-RSV 13	RESERVED	BLANK
14	CENTER B	RGN 9B	IL-RGN11	IL-INC A14	IL-INC B14	IL-SECCEMA14	IL-SEC B14	IL-RSV 14	RESERVED	BLANK
15	SOUTH A	RGN 11A	IL-102A	IL-INC A15	IL-INC B15	IL-SEC DOT15	IL-SEC B15	IL-RSV 15	RESERVED	BLANK
16	SOUTH B	RGN 11B	IL-102B	IL-INC A16	IL-INC B16	IL-SEC DOT16	IL-SEC B16	IL-RSV 16	RESERVED	BLANK

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO VISOR REFERENCE CARD

Zone Chan	SWIT- BC	SWIT-BD	SWIT-BE	SWIT-BF	SWIT-BG	SWIT-BH	SWIT-BI	SWIT-BJ	SWIT-BY
1	8CALL90D	7CALL50D	7MOB59D	7CALL70D	7MOB79D	7FTAC1D	7MTAC9D	7AG58D	7MOB59DE
2	8TAC91D	7TAC51D	7DATA69D	7TAC71D	7DATA89D	7FTAC2D	A7-US-01D	7AG60D	7MOB79DE
3	8TAC92D	7TAC52D	7LAW61D	7TAC72D	7LAW81D	7FTAC3D	A7-US-02D	7AG67D	BLANK
4	8TAC93D	7TAC53D	7LAW62D	7TAC73D	7LAW82D	7GTAC4D	A7-US-03D	7AG68D	BLANK
5	8TAC94D	7TAC54D	7FIRE63D	7TAC74D	7FIRE83D	7GTAC5D	7MTAC9	7AG78D	7FIRE83DE
6	8CALL90	7TAC55D	7FIRE64D	7TAC75D	7FIRE84D	7LTAC6D	A7-US-01	7AG80D	7FIRE84DE
7	8TAC91	7TAC56D	7MED65D	7TAC76D	7MED86D	7LTAC7D	A7-US-02	7AG85D	7MED86DE
8	8TAC92	7GTAC57D	7MED66D	7GTAC77D	7MED87D	7LTAC8D	A7-US-03	7AG88D	7MED87DE
9	8TAC93	7CALL50	7MOB59	7CALL70	7MOB79	7FTAC1	7-US-01D	7AG58	7MOB59E
10	8TAC94	7TAC51	7DATA69	7TAC71	7DATA89	7FTAC2	7-US-02D	7AG60	7MOB79E
11	RESERVED	7TAC52	7LAW61	7TAC72	7LAW81	7FTAC3	7-US-03D	7AG67	BLANK
12	RESERVED	7TAC53	7LAW62	7TAC73	7LAW82	7GTAC4	7-US-01	7AG68	BLANK
13	RESERVED	7TAC54	7FIRE63	7TAC74	7FIRE83	7GTAC5	7-US-02	7AG78	7FIRE83E
14	RESERVED	7TAC55	7FIRE64	7TAC75	7FIRE84	7LTAC6	7-US-03	7AG80	7FIRE84E
15	RESERVED	7TAC56	7MED65	7TAC76	7MED86	7LTAC7	RESERVED	7AG85	7MED86E
16	RESERVED	7GTAC57	7MED66	7GTAC77	7MED87	7LTAC8	RESERVED	7AG88	7MED87E

IL-SIEC STATEWIDE INTEROPERABILITY TEMPLATE (SWIT)

FIRE/EMS RADIO VISOR REFERENCE CARD

Zone Chan	OUTDATED ITTF BZ	VFIRE	VMED	VCALL	VFED-IR	UCALL	UFED-IR
1	SECURE 1	IFERN	MERCI340	VCALL10	NC 1	UCALL40D	NC 2
2	SECURE 2	IFERN2	MERCI400	VTAC11	IR 1	UTAC41D	IR 10
3	SECURE 3	VFIRE21	VMED28	VTAC12	IR 2	UTAC42D	IR 11
4	SECURE 4	VFIRE22	VMED29	VTAC13	IR 3	UTAC43D	IR 12
5	SECURE 5	VFIRE23	VSAR16	VTAC14	IR 4	UCALL40	IR 13
6	SECURE 6	VFIRE24	RESERVED	VTAC33	IR 5	UTAC41	IR 14
7	SECURE 7	VFIRE25	RESERVED	VTAC34	IR 6	UTAC42	IR 15
8	SECURE 8	VFIRE26	RESERVED	VTAC35	IR 7	UTAC43	IR 16
9	BLANK	IREACH	RESERVED	VTAC36	IR 8	RESERVED	IR 17
10	BLANK	ESMARN	RESERVED	VTAC37	IR 9	RESERVED	IR 18
11	SECFIRE 1	GRAY FG	RESERVED	VTAC38	CG-COM-N	RESERVED	RESERVED
12	SECFIRE 2	BLACK FG	RESERVED	STL CALL	CG-COM-C	RESERVED	RESERVED
13	SECEMA 1	GOLD FG	RESERVED	STL TAC	CG-COM-S	RESERVED	RESERVED
14	SECEMA 2	BLUE FG	RESERVED	IEMA VHF1	CG-TAC-N	RESERVED	RESERVED
15	SEC DOT 1	WHITE FG	RESERVED	ESMARN	CG-TAC-C	RESERVED	RESERVED
16	SEC DOT 2	RED FG	RESERVED	IREACH	CG-TAC-S	RESERVED	RESERVED

ITTF / SWIT NAMING CROSSWALK												
ZONE	CALLING ZONE			INCIDENT A ZONE			SECURE A ZONE			SWIT-BI		
	Chan	SWIT NAME	LEGACY NAME	ITTF ZONE	SWIT NAME	LEGACY NAME	ITTF ZONE	SWIT NAME	LEGACY NAME	ITTF ZONE	SWIT NAME	LEGACY NAME
1	IL-CALL	IESMA	BA	IL-INC A1	INCIDNT1	BA	IL-SEC A1	SECURE1	BZ	7MTAC9D	7MTAC9D	BI
2	ILEAS	ILEAS	BA	IL-INC A2	INCIDNT2	BA	IL-SEC A2	SECURE2	BZ	A7-US-01D	7NTAC10D	BI
3	MABAS	MABAS	BA	IL-INC A3	INCIDNT3	BA	IL-SEC A3	SECURE3	BZ	A7-US-02D	7NTAC11D	BI
4	IDPH	IDPH	BA	IL-INC A4	INCIDNT4	BA	IL-SEC A4	SECURE4	BZ	A7-US-03D	7NTAC12D	BI
5	IPWMAN	IPWMAN	BA	IL-INC A5	INCIDNT5	BA	IL-SEC A5	SECURE5	BZ	7MTAC9	7MTAC9	BI
6	EMA	NORTH A	BA	IL-INC A6	RGN 2A	BB	IL-SEC A6	SECURE6	BZ	A7-US-01	7NTAC10	BI
7	IL-RGN 2	RGN 2B	BB	IL-INC A7	RGN 3A	BB	IL-SECLAW7	SECLAW1	BZ	A7-US-02	7NTAC11	BI
8	IL-RGN 3	RGN 3B	BB	IL-INC A8	RGN 4A	BB	IL-SECLAW8	SECLAW2	BZ	A7-US-03	7NTAC12	BI
9	IL-RGN 4	RGN 4B	BB	IL-INC A9	RGN 6A	BB	IL-SECLAW9	SECURE7	BZ	7-US-01D	7NTAC12	BI
10	IL-RGN 6	RGN 6B	BB	IL-INC A10	RGN 7A	BB	IL-SECLAW10	SECURE8	BZ	7-US-02D	7NTAC12	BI
11	IL-RGN 7	RGN 7B	BB	IL-INC A11	RGN 8A	BB	IL-SECFIRE11	SECFIRE1	BZ	7-US-03D	7NTAC12	BI
12	IL-RGN 8	RGN 8B	BB	IL-INC A12	RGN 9A	BB	IL-SECFIRE12	SECFIRE2	BZ	7-US-01	7NTAC12	BI
13	IL-RGN 9	RGN 9B	BB	IL-INC A13	RGN 11A	BB	IL-SECEMA13	SECEMA1	BZ	7-US-02	7NTAC12	BI
14	IL-RGN11	RGN 11B	BB	IL-INC A14	NORTH B	BA	IL-SECEMA14	SECEMA2	BZ	7-US-03	7NTAC12	BI
15	IL-102A	SOUTH A	BA	IL-INC A15	CENTER A	BA	IL-SECDOT15	SECDOT1	BZ	RESERVED	7NTAC12	BI
16	IL-102B	SOUTH B	BA	IL-INC A16	CENTER B	BA	IL-SECDOT16	SECDOT2	BZ	RESERVED	7NTAC12	BI

ITTF / SWIT NAMING CROSSWALK							
ZONE				MABAS ZONE			
	Chan	SWIT NAME	LEGACY NAME	ITTF ZONE	SWIT NAME	LEGACY NAME	ITTF ZONE
1					MABAS	MABAS	BA
2					MABAS SEC	MABASSEC	MABAS
3					MABAS OPS1	OPS	MABAS
4					MABAS OPS2	(NEW)	N/A
5					MABAS OPS3E	OPS SEC	MABAS
6					MABAS OPS4E	(NEW)	N/A
7					IL-HZMT	HAZMAT	MABAS
8					IL-HZMT SEC	HZMT SEC	MABAS
9					IL-TRT	TRT	MABAS
10					IL-TRT SEC	TRT SEC	MABAS
11							
12							
13							
14							
15							
16							

Recommended Fire AES-256 Secure Keys		
Name	SLN/CKR	Key ID
CKR1	1	1
SIEC1401	1401	579
FIRE1403	1403	57B
EMA1404	1404	57C
DOT1405	1405	57D
MED1406	1406	57E
MABAS1501	1501	5DD
PSIOA12	12	377C