State of Kansas Radio Communications Mutual Aid Reference Guide

08/2011

This Reference Guide explains the use of the State of Kansas Mutual Aid System.

Public Safety users on any frequency can be connected to other Public Safety users on a different frequency through the mutual aid channel in their radios by a MOTOBRIDGE system installed on Kansas Department of Transportation radio towers.

This Reference Guide gives the procedure to be used to request the connections through Kansas Highway Patrol Central Dispatch.

State of Kansas Mutual Aid Frequencies

Motobridge

800 MHz	Mobile	Repeater	PL Tone
8CALL90	806.0125	851.0125	5A
8TAC91	806.5125	851.5125	5A
8TAC92	807.0125	852.0125	5A
8TAC93	807.5125	852.5125	5A
8TAC94	808.0125	853.0125	5A

UHF	Mobile	Repeater	NAC
UCALL40	458.2125	453.2125	5A
UTAC41	458.4625	453.4625	5A
UTAC42	458.7125	453.7125	5A
UTAC43	458.8625	453.8625	5A

VHF *			
VCALL10	155.7525	155.7525	5A
VTAC11	151.1375	151.1375	5A
VTAC12	154.4525	154.4525	5A
VTAC13	158.7375	158.7375	5A
VTAC14	159.4725	159.4725	5A

Low Band *		PL Tone
LCALKS	39.58	5A
LTACKS	39.70	5A

*Simplex channels only

EVENT CHANNELS

The label is the Troop designation plus the event channel number.

EVENT C2=Troop C, Event Channel 2

Kansas
Department of Transportation

Request for MOTOBRIDGE Channel Assignment

1.) Originating caller contacts KHP Dispatch on Radio Call-In channel and identifies their county location.

2.) Originating caller requests radio patch to other user. (Caller must provide KHP Dispatch with users TAC bands and locations needing patched together. For example, Shawnee Co. VHF to Shawnee Co. 800.)

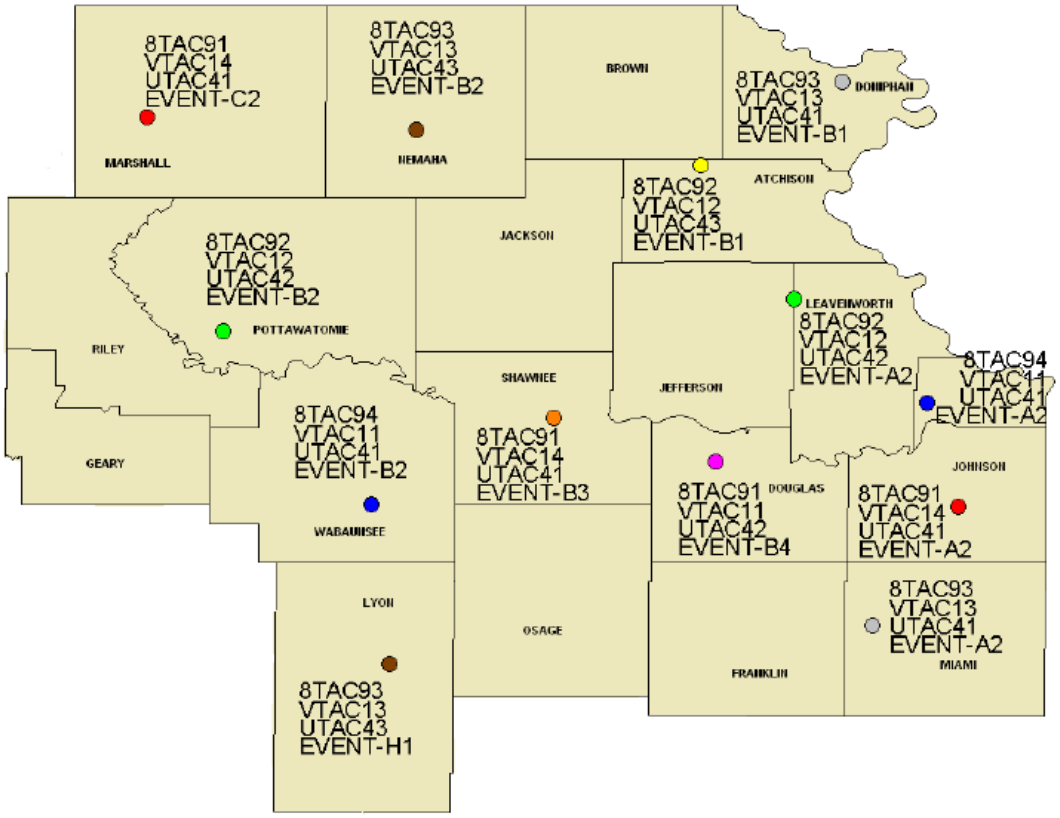
3.) KHP Dispatch patches the requested channels together through the MOTOBRIDGE console.

4.) KHP will then contact the users on the Call-In channels advising them the TAC channels are patched and ready for use.

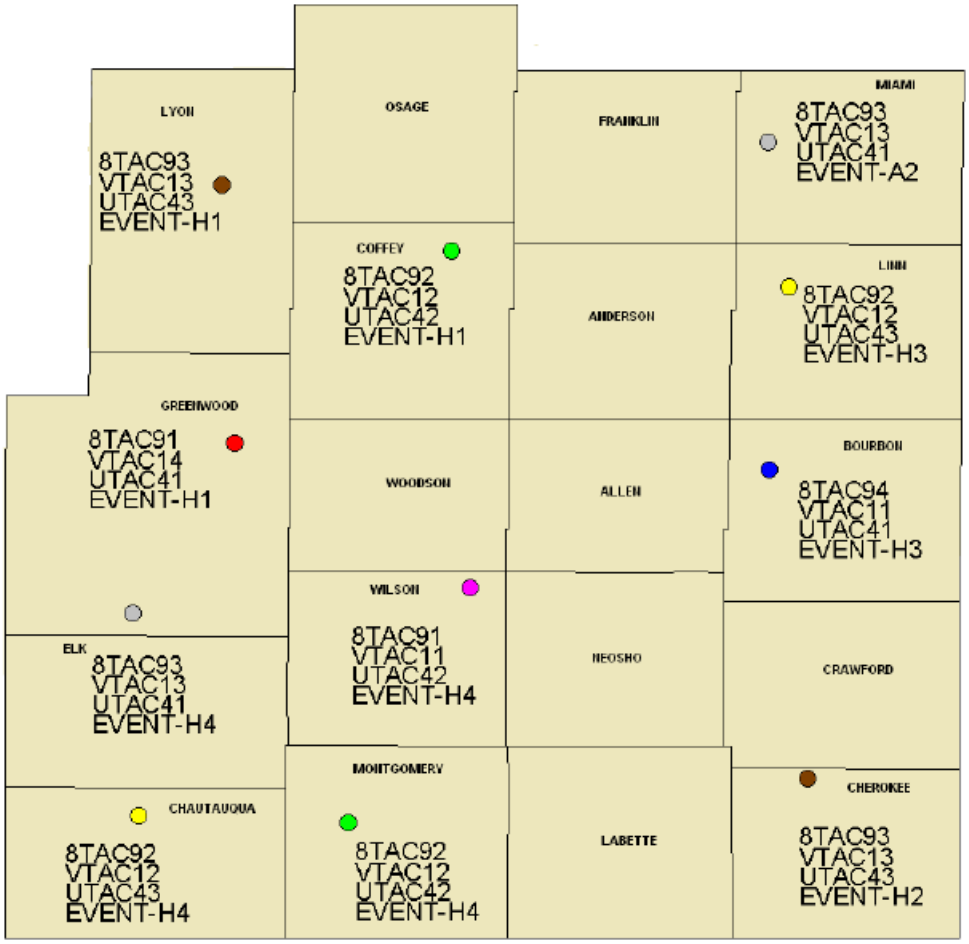
5.) Originating caller completes intended communication with targeted user.

6.) Originating caller contacts KHP Dispatch on Radio Call-In channel to cancel the MOTOBRIDGE patch.

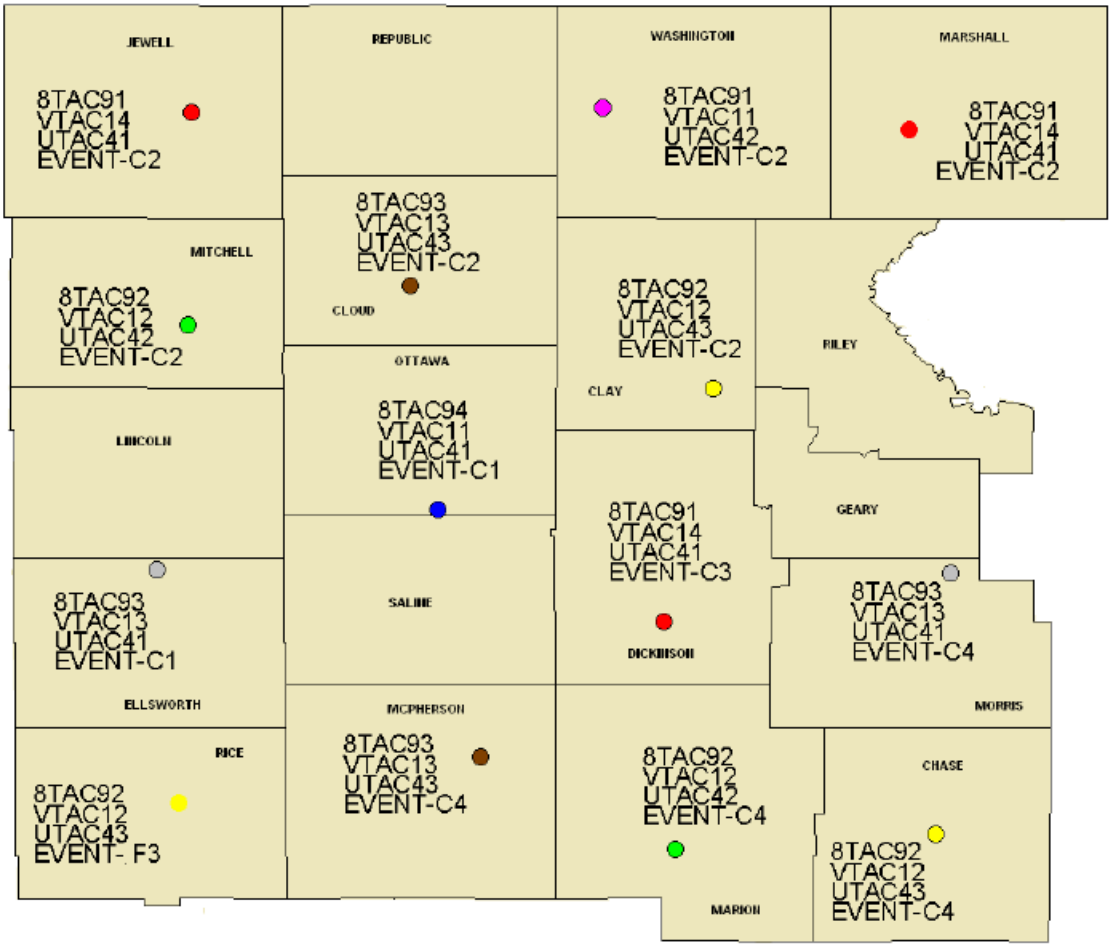
Northeast Kansas Mutual Aid Channels



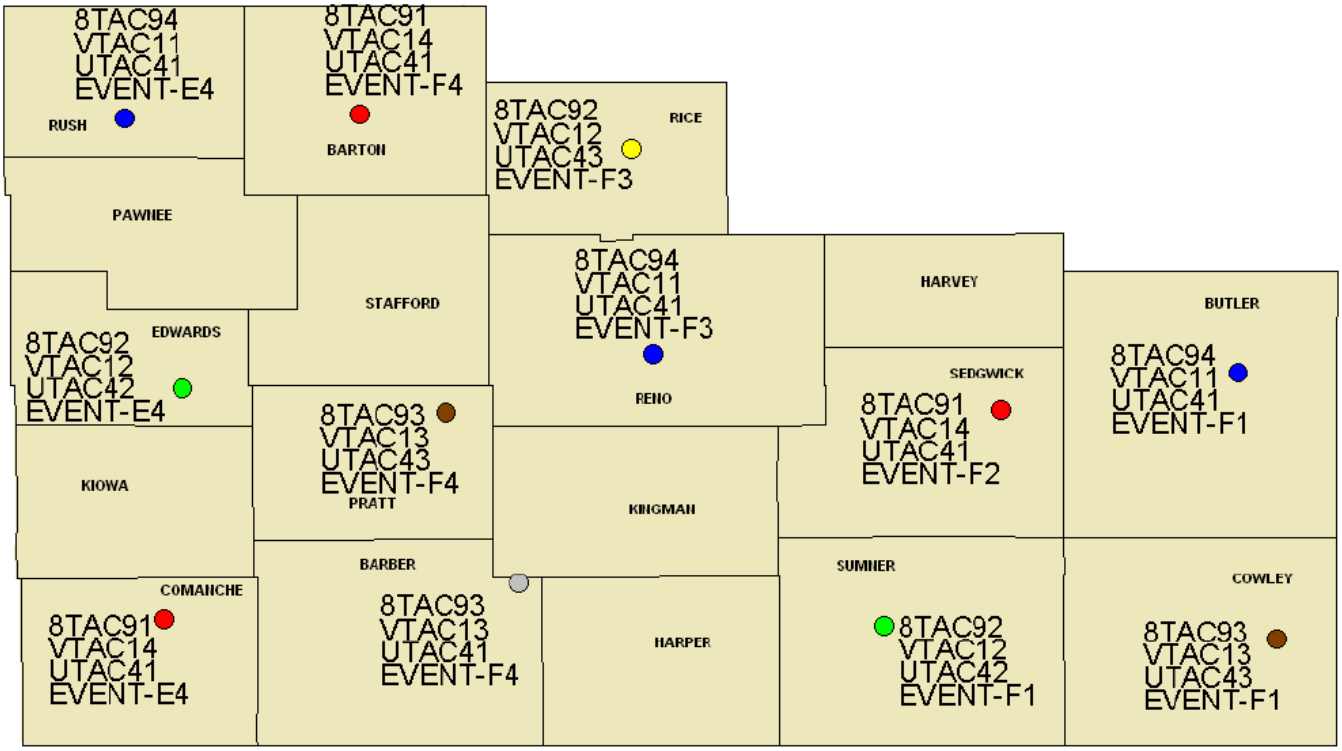
Southeast Kansas Mutual Aid Channels



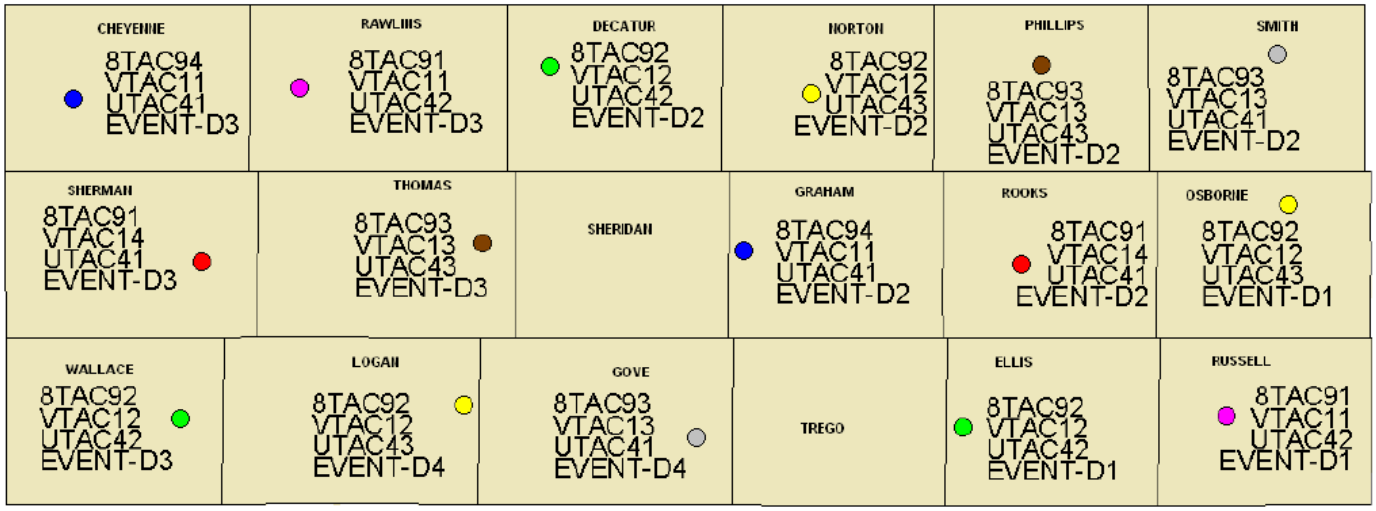
North Central Kansas Mutual Aid Channels



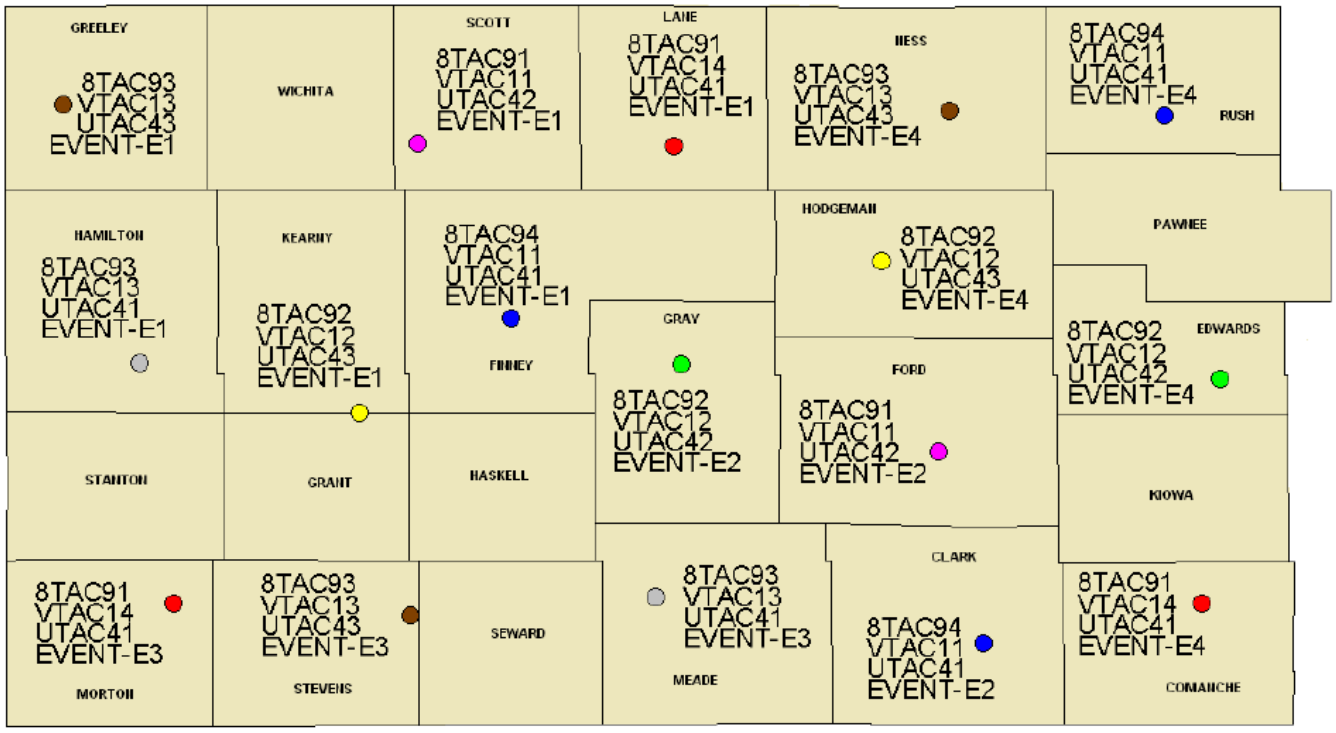
South Central Kansas Mutual Aid Channels



Northwest Kansas Mutual Aid Channels



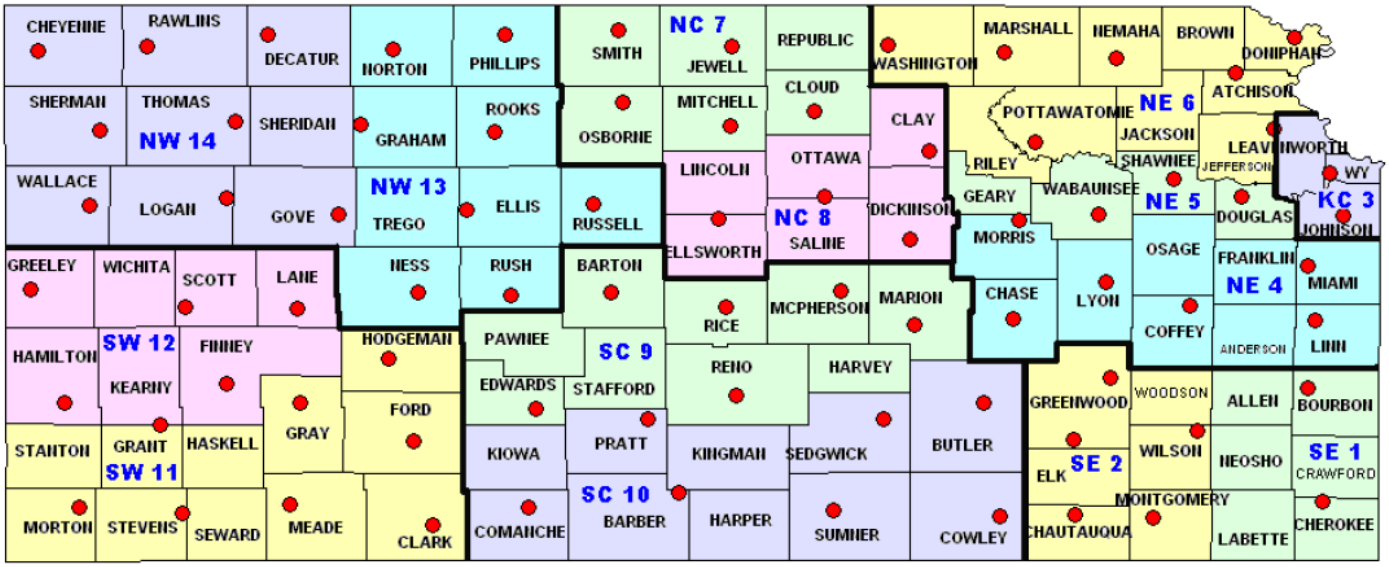
Southwest Kansas Mutual Aid Channels



Standardized Interoperability Template for 800 MHz P25 Radio System

- The state is divided into 14 zones which correspond with the Homeland Security Regions
- Each zone's talkgroups are set up identical to correspond with the position of the channel selector on the radio (the first 8 channels are the same in all zones)
- There are 16 positions on the radio's channel selector knob. Note: That is not the case with all equipment, especially mobile units
- The channel is named with the region and zone indicator and then the discipline
    - Example: SE1-PSAP is the Southeast Region, Zone 1, PSAP talkgroup
- The KHP Event channels in each zone are specific to certain towers (refer to the other section of this guide for the tower/event channel information)
- Use the county listing to find which zone you need to be in to communicate within the appropriate talkgroup, then set your radio to that zone and turn the selector knob to get to the correct channel
- Listing of the channels in each zone:
    - 1 – PSAP
    - 2 – MED (Hospitals/Medical)
    - 3 – EOC (Emergency Operations Center)
    - 4 – LE
    - 5 – EMGT (Emergency Mgmt)
    - 6 – FIRE
    - 7 – EMS
    - 8 – PWKS (Public Works)
    - 9 – channel 9 and on are KHP event channels specific to that zone

Kansas Homeland Security Regions and KDOT Tower Sites



County	Zone
Allen	SE1
Anderson	NE4
Atchison	NE6
Barber	SC10
Barton	SC9
Bourbon	SE1
Brown	NE6
Butler	SC10
Chase	NE4
Chautauqua	SE2
Cherokee	SE1
Cheyenne	NW14
Clark	SW11
Clay	NC8
Cloud	NC7
Coffey	NE4
Comanche	SC10
Cowley	SC10
Crawford	SE1
Decatur	NW14
Dickinson	NC8
Doniphan	NE6
Douglas	NE5
Edwards	SC9
Elk	SE2
Ellis	NW13
Ellsworth	NC8

County	Zone
Finney	SW12
Ford	SW11
Franklin	NE4
Geary	NE5
Gove	NW14
Graham	NW13
Grant	SW11
Gray	SW11
Greeley	SW12
Greenwood	SE2
Hamilton	SW12
Harper	SC10
Harvey	SC9
Haskell	SW11
Hodgeman	SW11
Jackson	NE6
Jefferson	NE6
Jewell	NC7
Johnson	KC3
Kearny	SW12
Kingman	SC10
Kiowa	SC10
Labette	SE1
Lane	SW12
Leavenworth	KC3
Lincoln	NC8
Linn	NE4

County	Zone
Logan	NW14
Lyon	NE4
Marion	SC9
Marshall	NE6
McPherson	SC9
Meade	SW11
Miami	NE4
Mitchell	NC7
Montgomery	SE2
Morris	NE4
Morton	SW11
Nemaha	NE6
Neosho	SE1
Ness	NW13
Norton	NW13
Osage	NE4
Osborne	NC7
Ottawa	NC8
Pawnee	SC9
Phillips	NW13
Pottawatomie	NE6
Pratt	SC10
Rawlins	NW14
Reno	SC9
Republic	NC7
Rice	SC9
Riley	NE6

County	Zone
Rooks	NW13
Rush	NW13
Russell	NW13
Saline	NC8
Scott	SW12
Sedgwick	SC10
Seward	SW11
Shawnee	NE5
Sheridan	NW14
Sherman	NW14
Smith	NC7
Stafford	SC9
Stanton	SW11
Stevens	SW11
Sumner	SC10
Thomas	NW14
Trego	NW13
Wabaunsee	NE5
Wallace	NW14
Washington	NE6
Wichita	SW12
Wilson	SE2
Woodson	SE2
Wyandotte	KC3

Zone Name →	SE1	SE2	KC3	NE4	NE5	NE6	NC7	NC8
Channel 1	SE1-PSAP	SE2-PSAP	KC3-PSAP	NE4-PSAP	NE5-PSAP	NE6-PSAP	NC7-PSAP	NC8-PSAP
Channel 2	SE1-MED	SE2-MED	KC3-MED	NE4-MED	NE5-MED	NE6-MED	NC7-MED	NC8-MED
Channel 3	SE1-EOC	SE2-EOC	KC3-EOC	NE4-EOC	NE5-EOC	NE6-EOC	NC7-EOC	NC8-EOC
Channel 4	SE1-LE	SE2-LE	KC3-LE	NE4-LE	NE5-LE	NE6-LE	NC7-LE	NC8-LE
Channel 5	SE1-EMGT	SE2-EMGT	KC3-EMGT	NE4-EMGT	NE5-EMGT	NE6-EMGT	NC7-EMGT	NC8-EMGT
Channel 6	SE1-FIRE	SE2-FIRE	KC3-FIRE	NE4-FIRE	NE5-FIRE	NE6-FIRE	NC7-FIRE	NC8-FIRE
Channel 7	SE1-EMS	SE2-EMS	KC3-EMS	NE4-EMS	NE5-EMS	NE6-EMS	NC7-EMS	NC8-EMS
Channel 8	SE1-PWKS	SE2-PWKS	KC3-PWKS	NE4-PWKS	NE5-PWKS	NE6-PWKS	NC7-PWKS	NC8-PWKS
Channel 9	H-EVNT-2	H-EVNT-1	A-EVNT-2	A-EVNT-2	B-EVNT-2	B-EVNT-1	C-EVNT-2	C-EVNT-1
Channel 10	H-EVNT-3	H-EVNT-4		B-EVNT-3	B-EVNT-3	B-EVNT-2	D-EVNT-1	C-EVNT-2
Channel 11				B-EVNT-4	B-EVNT-4	B-EVNT-3	D-EVNT-2	C-EVNT-3
Channel 12				C-EVNT-4	C-EVNT-2	C-EVNT-2		
Channel 13				H-EVNT-1	C-EVNT-4			
Channel 14				H-EVNT-3				
Channel 15								
Channel 16								

Red Talkgroups = ability to talk throughout the state
Blue Talkgroups = ability to talk within the zone only
Purple Talkgroups = KHP Event channels - ability to talk within zone, tower specific

Zone = menu
Channel = knob position

Zone → Name	SC9	SC10	SW11	SW12	NW13	NW14	KDEM/ICS-A	KDEM/ICS-B
Channel 1	SC9-PSAP	SC10-PSAP	SW11-PSAP	SW12-PSAP	NW13-PSAP	NW14-PSAP	KDEM-CALL	KDEM-CALL
Channel 2	SC9-MED	SC10-MED	SW11-MED	SW12-MED	NW13-MED	NW14-MED	KDEM-1	KDEM-1
Channel 3	SC9-EOC	SC10-EOC	SW11-EOC	SW12-EOC	NW13-EOC	NW14-EOC	KDEM-2	KDEM-2
Channel 4	SC9-LE	SC10-LE	SW11-LE	SW12-LE	NW13-LE	NW14-LE	ICS-1	ICS-11
Channel 5	SC9-EMGT	SC10-EMGT	SW11-EMGT	SW12-EMGT	NW13-EMGT	NW14-EMGT	ICS-2	ICS-12
Channel 6	SC9-FIRE	SC10-FIRE	SW11-FIRE	SW12-FIRE	NW13-FIRE	NW14-FIRE	ICS-3	ICS-13
Channel 7	SC9-EMS	SC10-EMS	SW11-EMS	SW12-EMS	NW13-EMS	NW14-EMS	ICS-4	ICS-14
Channel 8	SC9-PWKS	SC10-PWKS	SW11-PWKS	SW12-PWKS	NW13-PWKS	NW14-PWKS	ICS-5	ICS-15
Channel 9	C-EVNT-4	E-EVNT-4	E-EVNT-2	E-EVNT-1	D-EVNT-1	D-EVNT-2	ICS-6	ICS-16
Channel 10	E-EVNT-4	F-EVNT-1	E-EVNT-3		D-EVNT-2	D-EVNT-3	ICS-7	ICS-17
Channel 11	F-EVNT-2	F-EVNT-2	E-EVNT-4		D-EVNT-4	D-EVNT-4	ICS-8	ICS-18
Channel 12	F-EVNT-3	F-EVNT-3			E-EVNT-4		ICS-9	ICS-19
Channel 13	F-EVNT-4	F-EVNT-4					ICS-10	ICS-20
Channel 14	YODER	YODER					COMMND-1	COMMND-3
Channel 15							COMMND-2	COMMND-4
Channel 16								

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Purple Talkgroups = KHP Event channels - ability to talk within zone, tower specific

Zone = menu

Channel = knob position

Zone → Name	SOUTH ERT-ICS	NORTH ERT-ICS	MUTUAL AID	KHP A/B	KHP C/D	KHP E/F	KHP H	STATE
Channel 1	ICS-1	ICS-11	8CALL90	A-KHP-1	C KHP-1 N	E-KHP-1	H KHP-1	KTA Event 1
Channel 2	ICS-2	ICS-12	8CALL90 D	A-KHP-2	C KHP-2 S	E-KHP-2	H KHP-2	KTA Event 2
Channel 3	ICS-3	ICS-13	8TAC 91	A-EVENT-1	C KHP-3 E	E-EVENT-1	H-EVENT-1	KTA North
Channel 4	ICS-4	ICS-14	8TAC 91 D	A-EVENT-2	C-EVENT-1	E-EVENT-2	H-EVENT-2	KTA Event 3
Channel 5	ICS-5	ICS-15	8TAC 92	A-EVENT-3	C-EVENT-2	E-EVENT-3	H-EVENT-3	KTA South
Channel 6	ICS-6	ICS-16	8TAC 92 D	B-KHP-1	C-EVENT-3	E-EVENT-4	H-EVENT-4	SFM SE
Channel 7	ICS-7	ICS-17	8TAC 93	B-KHP-2	C-EVENT-4	METRO-1		SFM SW
Channel 8	ICS-8	ICS-18	8TAC 93 D	B-EVENT-1	D-KHP-1	METRO-2		SFM NE
Channel 9	ICS-9	ICS-19	8TAC 94	B-EVENT-2	D-KHP-2	F-KHP-1		SFM NC
Channel 10	ICS-10	ICS-20	8TAC 94 D	B-EVENT-3	D-EVENT-1	F-KHP-2		W&P Evt 1A
Channel 11	COMMND-1	COMMND-3		B-EVENT-4	D-EVENT-2	F-EVENT-1		W&P Evt 2B
Channel 12	COMMND-2	COMMND-4			D-EVENT-3	F-EVENT-2		W&P Evt 3C
Channel 13					D-EVENT-4	F-EVENT-3		W&P Evt 4F
Channel 14						F-EVENT-4		W&P Evt 5G
Channel 15								MERG 4
Channel 16								

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Zone = menu

Channel = knob position

Zone Name →	PSAP	MED	EOC
Channel 1	SE1-PSAP	SE1-MED	SE1-EOC
Channel 2	SE2-PSAP	SE2-MED	SE2-EOC
Channel 3	KC3-PSAP	KC3-MED	KC3-EOC
Channel 4	NE4-PSAP	NE4-MED	NE4-EOC
Channel 5	NE5-PSAP	NE5-MED	NE5-EOC
Channel 6	NE6-PSAP	NE6-MED	NE6-EOC
Channel 7	NC7-PSAP	NC7-MED	NC7-EOC
Channel 8	NC8-PSAP	NC8-MED	NC8-EOC
Channel 9	SC9-PSAP	SC9-MED	SC9-EOC
Channel 10	SC10-PSAP	SC10-MED	SC10-EOC
Channel 11	SW11-PSAP	SW11-MED	SW11-EOC
Channel 12	SW12-PSAP	SW12-MED	SW12-EOC
Channel 13	NW13-PSAP	NW13-MED	NW13-EOC
Channel 14	NW14-PSAP	NW14-MED	NW14-EOC
Channel 15	YODER		
Channel 16			

← **This Grid Applies To Fixed Stations Only**