

Checklist of Recommended Items for Texas Statewide Interoperability Channel Plan (TSICP) Compliance

January 2018

The purpose of this checklist is to assist public safety radio programmers with the programming requirements relevant to the radio band they are programming.

Programmers should reference the latest version of the TSICP when programming radios.

<https://www.dps.texas.gov/LawEnforcementSupport/communications/interop/index.htm>

Key tables have been included below, but agencies using the radios must reference the TSICP to ensure they are compliant with channel usage specifications – including Federal agency channels and border usage restrictions.

The tables below apply to mobile and portables only, NOT repeater configurations.

ALL BANDS:

- For all P25 trunked radios, make sure all radios have IDs assigned in accordance with the Statewide P25 Radio Unit ID Plan. *(Beginning on page 20 of the TSICP. If ID range is unknown, contact Texas DPS Radio Frequency / Technical Services at 512-424-7134 to obtain range point of contact.)*
- It is suggested that the band-relevant interoperable call channel listed below be included in the 'home zone' used for day-to-day operations. This will enable radio users to easily turn to the interoperable channel on their mobile or portable radio when needed.

CALLING CHANNEL NAME	USE
VCALL10	Analog VHF Calling Channel
UCALL40	Analog UHF Calling Channel
7CALL50	Digital P25 700 MHz Calling Channel
8CALL90	Analog National Calling Channel

VHF 150 MHz: (full text begins on page 25 of the TSICP)

Short List of 16 VHF channels.

Ch #	Label (Channel Name / Trunked Radio System Talkgroup)	RX Freq	RX Tone/NAC	TX Freq	TX Tone/N AC	Mode (A, D, M)	Use
1	VCALL10	155.7525	156.7	155.7525	156.7	A	Calling Channel
2	VTAC11	151.1375	156.7	151.1375	156.7	A	Generic Public Safety Tactical
3	VTAC12	154.4525	156.7	154.4525	156.7	A	Generic Public Safety Tactical
4	VTAC13	158.7375	156.7	158.7375	156.7	A	Generic Public Safety Tactical
5	VTAC14	159.4725	156.7	159.4725	156.7	A	Generic Public Safety Tactical
6	VFIRE21	154.2800	156.7	154.2800	156.7	A	Fire Tactical
7	VFIRE22	154.2650	156.7	154.2650	156.7	A	Fire Tactical
8	VFIRE23	154.2950	156.7	154.2950	156.7	A	Fire Tactical
9	VFIRE26	154.3025	156.7	154.3025	156.7	A	Fire Tactical and Air-to-Ground with State & Federal Aircraft ONLY
10	VMED28	155.3400	156.7	155.3400	156.7	A	Medical Tactical & Air-to-Ground with Medical Aircraft
11	VMED29	155.3475	156.7	155.3475	156.7	A	Medical Tactical
12	VLAW31	155.4750	156.7	155.4750	156.7	A	Law Enforcement Tactical
13	VLAW32	155.4825	156.7	155.4825	156.7	A	Law Enforcement Tactical
14	TXCALL1D	154.950	156.7	154.950	156.7	A	Generic Mobile Calling Channel
15	TXCALL2D	155.370	156.7	155.370	156.7	A	Flight-following and Air-to-Ground with State/Federal Aircraft ONLY
16	VTAC36	151.1375	156.7	159.4725	136.5	A	Generic Public Safety Repeater (Preferred 1 VHF)

- **New VHF Federal Agency Channels for Law Enforcement and Incident Response, if usage and programming is desired.** These channels are only to be used when communicating with Federal agencies.

NEW! Table 4.4: Federal Agency VHF Incident Response Interoperability Channels

Ch #	Label	RX Freq	RX Tone/NAC *	TX Freq	TX Tone/NAC	Mode (A, D, M)	Use
1	NC 1	169.5375	CSQ	164.7125	167.9	A	Incident Calling
2	IR 1	170.0125	CSQ	165.2500	167.9	A	Incident Command
3	IR 2	170.4125	CSQ	165.9625	167.9	A	Medical Evacuation Control
4	IR 3	170.6875	CSQ	166.5750	167.9	A	Logistics Control
5	IR 4	173.0375	CSQ	167.3250	167.9	A	Interagency Convoy
6	IR 5	169.5375	CSQ	169.5375	167.9	A	Incident Calling – Direct for NC 1
7	IR 6	170.0125	CSQ	170.0125	167.9	A	Incident Command – Direct for IR 1
8	IR 7	170.4125	CSQ	170.4125	167.9	A	Medical Evacuation Control – Direct for IR 2
9	IR 8	170.6875	CSQ	170.6875	167.9	A	Logistics Control – Direct for IR 3
10	IR 9	173.0375	CSQ	173.0375	167.9	A	Interagency Convoy – Direct for IR 4

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

NEW! Table 4.5: Federal Agency VHF Law Enforcement Interoperability Channels

Ch #	Label	RX Freq	RX Tone/NAC *	TX Freq	TX Tone/NAC	Mode (A, D, M)	Use
1	LE A	167.0875	CSQ	167.0875	167.9 Tx, CSQ Rx	A	Calling
2	LE 1	167.0875	CSQ	162.0875	167.9 Tx, CSQ Rx	A	Tactical
3	LE 2	167.2500	\$68F (1679 ₁₀)	162.2625	\$68F (1679 ₁₀)	D	Tactical
4	LE 3	167.7500	\$68F (1679 ₁₀)	162.8375	\$68F (1679 ₁₀)	D	Tactical
5	LE 4	168.1125	\$68F (1679 ₁₀)	163.2875	\$68F (1679 ₁₀)	D	Tactical
6	LE 5	168.4625	\$68F (1679 ₁₀)	163.4250	\$68F (1679 ₁₀)	D	Tactical
7	LE 6	167.2500	\$68F (1679 ₁₀)	167.2500	\$68F (1679 ₁₀)	D	Tactical – Direct for LE2
8	LE 7	167.7500	\$68F (1679 ₁₀)	167.7500	\$68F (1679 ₁₀)	D	Tactical – Direct for LE3
9	LE 8	168.1125	\$68F (1679 ₁₀)	168.1125	\$68F (1679 ₁₀)	D	Tactical – Direct for LE4

10	LE 9	168.4625	\$68F (1679 ₁₀)	168.4625	\$68F (1679 ₁₀)	D	Tactical – Direct for LE5
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CTCSS on receive only if user selectable; else CSQ. See “Conditions for Use of Federal Entity Interoperability Channels” on pages 18 – 19 of the TSICP. All channels in these tables are NARROWBAND only.

- CTCSS tone programming for VHF channels must be compliant with the TSICP and NIFOG version 1.6.1 and any subsequent revisions.**

UHF 450 MHz: *(full text begins on page 31 of the TSICP)*

- UHF Statewide and Nationwide Interoperability Channels**
CTCSS tone programming for UHF channels must be in compliance with the NIFOG version 1.6.1 and any subsequent revisions by **January 2020**.

Label	Receive	Transmit	Station Class	CTCSS RX/TX	Use
Mobile and Portable Configuration					
UCALL40	453.2125	458.2125	FB2T / MO	156.7 / 156.7	Calling Channel (Repeater)
UCALL40D	453.2125	453.2125	FBT / MO	156.7 / 156.7	Calling Channel (Direct)
UTAC41	453.4625	458.4625	FB2T / MO	156.7 / 156.7	Tactical Repeater Channel
UTAC41D	453.4625	453.4625	FBT / MO	156.7 / 156.7	Tactical Repeater (Direct)
UTAC42	453.7125	458.7125	FB2T / MO	156.7 / 156.7	Tactical Repeater Channel
UTAC42D	453.7125	453.7125	FBT / MO	156.7 / 156.7	Tactical Repeater (Direct)
UTAC43	453.8625	458.8625	FB2T / MO	156.7 / 156.7	Tactical Repeater Channel
UTAC43D	453.8625	453.8625	FBT / MO	156.7 / 156.7	Tactical Repeater (Direct)

- New Federal Agency Channels for Law Enforcement and Incident Response, if usage and programming is desired.**

NEW! Table 5.2: Federal Agency UHF Incident Response Interoperability Channels

Ch #	Label	RX Freq	RX Tone/NAC	TX Freq	TX Tone/NAC	Mode (A, D, M)	Use
1	NC 2	410.2375	CSQ	419.2375	167.9	A	Incident Calling
2	IR 10	410.4375	CSQ	419.4375	167.9	A	Ad hoc assignment

3	IR 11	410.6375	CSQ	419.6375	167.9	A	Ad hoc assignment
4	IR 12	410.8375	CSQ	419.8375	167.9	A	SAR Incident Command
5	IR 13	413.1875	CSQ	413.1875	167.9	A	Ad hoc assignment
6	IR 14	413.2125	CSQ	413.2125	167.9	A	Interagency Convoy
7	IR 15	410.2375	CSQ	410.2375	167.9	A	Incident Calling – Direct for NC 2 Calling
8	IR 16	410.4375	CSQ	410.4375	167.9	A	Ad hoc assignment – Direct for IR 10
9	IR 17	410.6375	CSQ	410.6375	167.9	A	Ad hoc assignment – Direct for IR 11
10	IR 18	410.8375	CSQ	410.8375	167.9	A	SAR Incident Command - Direct for IR 12

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

NEW! Table 5.3: Federal Agency UHF Law Enforcement Interoperability Channels

Ch #	Label	RX Freq	RX Tone/NAC*	TX Freq	TX Tone/NAC	Mode (A, D, M)	Use
1	LE B	414.0375	CSQ	414.0375	167.9	A	Calling
2	LE 10	409.9875	CSQ	418.9875	167.9	A	Tactical
3	LE 11	410.1875	\$68F (167910)	419.1875	\$68F (167910)	D	Tactical
4	LE 12	410.6125	\$68F (167910)	419.6125	\$68F (167910)	D	Tactical
5	LE 13	414.0625	\$68F (167910)	414.0625	\$68F (167910)	D	Tactical
6	LE 14	414.3125	\$68F (167910)	414.3125	\$68F (167910)	D	Tactical
7	LE 15	414.3375	\$68F (167910)	414.3375	\$68F (167910)	D	Tactical
8	LE 16	409.9875	\$68F (167910)	409.9875	\$68F (167910)	D	Tactical - Direct for LE 10 Analog
9	LE 17	410.1875	\$68F (167910)	410.1875	\$68F (167910)	D	Tactical - Direct for LE 11
10	LE 18	410.6125	\$68F (167910)	410.6125	\$68F (167910)	D	Tactical - Direct for LE 12

CTCSS on receive only if user selectable; else CSQ. **See “Conditions for Use of Federal Entity Interoperability Channels” on pages 18 – 19 of the TSICP.** All channels in these tables are NARROWBAND only.

- **CTCSS tone programming for UHF channels must be compliant with the TSICP and NIFOG version 1.6.1 and any subsequent revisions.**

700 MHz: (full text begins on page 34 of the TSICP)

□ **Short List of 16 700 MHz channels:**

Table 6.1: Recommended SHORT List 700 MHz Interoperability Channels for Texas Public Safety Agencies

Mobile and Portable Configuration					
Label	Receive	Transmit	Station Class	P25 NAC Hex/Dec	Use
7CALL50	769.24375	799.24375	FB2T	\$293 / 659	Temporary Calling Channel Repeater
7CALL50D	769.24375	769.24375	FBT / MO	\$293 / 659	Calling Channel (Direct)
7TAC51	769.14375	799.14375	FB2T	\$293 / 659	Temporary Tactical Repeater
7TAC51D	769.14375	769.14375	FBT / MO	\$293 / 659	Tactical Channel (Direct)
7TAC52	769.64375	799.64375	FB2T	\$293 / 659	Temporary Tactical Repeater
7TAC52D	769.64375	769.64375	FBT / MO	\$293 / 659	Tactical Channel (Direct)
7TAC53	770.14375	800.14375	FB2T	\$293 / 659	Temporary Tactical Repeater
7TAC53D	770.14375	770.14375	FBT / MO	\$293 / 659	Tactical Channel (Direct)
7TAC54	770.64375	800.64375	FB2T	\$293 / 659	Temporary Tactical Repeater
7TAC54D	770.64375	770.64375	FBT / MO	\$293 / 659	Tactical Channel (Direct)
7TAC55	769.74375	799.74375	FB2T	\$293 / 659	Temporary Tactical Repeater
7TAC55D	769.74375	769.74375	FBT / MO	\$293 / 659	Tactical Channel (Direct)
7TAC56	770.24375	800.24375	FB2T	\$293 / 659	Temporary Tactical Repeater
7TAC56D	770.24375	770.24375	FBT / MO	\$293 / 659	Tactical Channel (Direct)
7GTAC57	770.99375	800.99375	FB2T	\$293 / 659	Temporary Tactical Repeater
7GTAC57D	770.99375	770.99375	FBT / MO	\$293 / 659	Tactical Channel (Direct)

- **New 700 MHz Air-to-Ground channels, if usage and programming is desired.**

Table 6.4: 700 MHz Interoperability Channels Air-to-Ground

Label	Mobile RX (MHz)	Mobile TX (MHz)	Use
7AG58	769.13125	799.13125	Air-Ground
7AG58D	769.13125	769.13125	Air-Ground
7AG60	769.63125	799.63125	Air-Ground
7AG60D	769.63125	769.63125	Air-Ground
7AG67	770.13125	800.13125	Air-Ground
7AG67D	770.13125	770.13125	Air-Ground
7AG68	770.63125	800.63125	Air-Ground
7AG68D	770.63125	770.63125	Air-Ground
7AG78	773.11875	803.11875	Air-Ground
7AG78D	773.11875	773.11875	Air-Ground
7AG80	773.61875	803.61875	Air-Ground
7AG80D	773.61875	773.61875	Air-Ground
7AG85	774.11875	804.11875	Air-Ground
7AG85D	774.11875	774.11875	Air-Ground
7AG88	774.61875	804.61875	Air-Ground
7AG88D	774.61875	774.61875	Air-Ground Landing Zone

* 7AG88D is recommended for **Landing Zone** use.

TX NAC: \$293 (659 10). RX NAC \$F7E (3966 10). These channels are reserved for air-ground communications to be used by low-altitude aircraft and ground based stations: See FCC rule 90.531(7). (i) Airborne use of these channels is limited to aircraft flying at or below **457 meters (1500 feet) above ground level**. (ii) **Aircraft are limited to 2 watts effective radiated power (ERP)** when transmitting while airborne on these channels. (iii) Aircraft may transmit on either the mobile or base transmit side of the channel pair. (iv) States are responsible for the administration of these channels. *These are NOT nationwide interoperability channels.*

800 MHz: (full text begins on page 43 of the TSICP)

□ 800 MHz Statewide and Nationwide Interoperability Channels

CTCSS tone programming for 800 MHz channels must be in compliance with the NIFOG version 1.6.1 and any subsequent revisions by **January 2020**.

Label	Receive	Transmit	Station Class	CTCSS RX/TX	Use
8CALL90	851.0125	806.0125	FB2T / MO	156.7 / 156.7	Calling Channel (Repeater)
8CALL90D	851.0125	851.0125	FBT / MO	156.7 / 156.7	Calling Channel (Direct)
8TAC91	851.5125	806.5125	FB2T / MO	156.7 / 156.7	Incident Temporary Repeater Channel
8TAC91D	851.5125	851.5125	FBT / MO	156.7 / 156.7	Tactical Channel (Direct)
8TAC92	852.0125	807.0125	FB2T / MO	156.7 / 156.7	Incident Temporary Repeater Channel
8TAC92D	852.0125	852.0125	FBT / MO	156.7 / 156.7	Tactical Channel (Direct)
8TAC93	852.5125	807.5125	FB2T / MO	156.7 / 156.7	Incident Temporary Repeater Channel
8TAC93D	852.5125	852.5125	FBT / MO	156.7 / 156.7	Tactical Channel (Direct)
8TAC94	853.0125	808.0125	FB2T / MO	156.7 / 156.7	Incident Temporary Repeater Channel
8TAC94D	853.0125	853.0125	FBT / MO	156.7 / 156.7	Tactical Channel (Direct)
8TAC95D	851.5500	851.5500	MO	156.7 / 156.7	Incident Control Channel (Direct)*
8TAC96D	853.0500	853.0500	MO	156.7 / 156.7	Incident Control Channel (Direct)*
8TAC97D	853.3500	853.3500	MO	156.7 / 156.7	Incident Control Channel (Direct)*

*These low-power mobile/portable channels may not be used in a repeater configuration nor patched with other channels through a gateway or patching device. ERP is limited to 20 watts and only mobile and portable operation is allowed. Base stations are not permitted.

□ CTCSS tone programming 800 MHz channel must be compliant with the TSICP and NIFOG version 1.6.1 and any subsequent revisions.