TEXAS MILITARY DEPARTMENT

Joint Force Headquarters – J6

Emergency Communications

Field Guide

(FY23)

Texas Military Department
Emergency Communications
Camp Mabry, Austin, TX 78703

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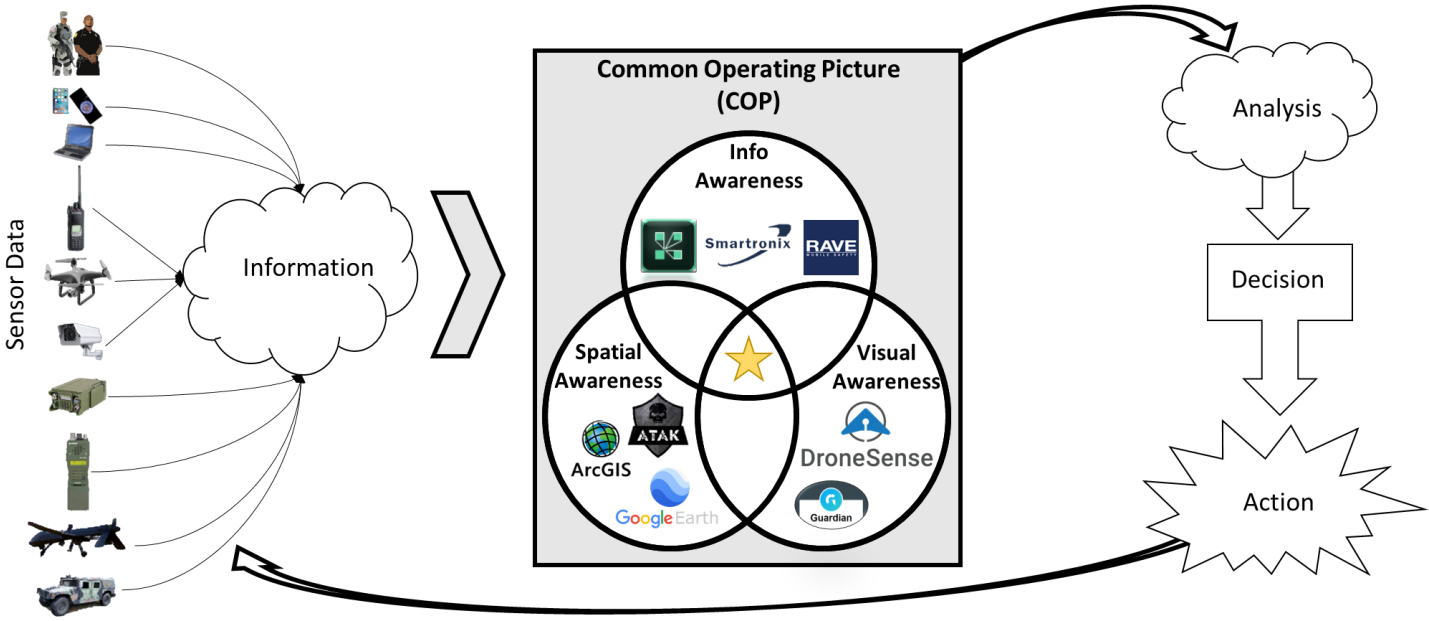
What is the Emergency Communications Branch?

JFHQ J6 -EMERGENCY COMMUNICATIONS BRANCH (Ecomms). The Texas Military Department (TMD) J6-Ecomms is responsible for providing interoperable technical solutions for the Command and Control of Texas Military Forces to the Governor, the Adjutant General, TMD Leadership, and State Partners during emergencies and Domestic Operations (DOMOPS). They also represent the Texas Military Forces in the State sanctioned Communications Coordination Group. Command and control is enabled by acquiring, programming, operating, maintaining and training personnel on a wide array of devices and systems. End user devices provide sensor data that is then integrated efficiently to become information. That information is then ingested into an inter-agency Common Operating Picture (COP). The information presented in this COP should be easily understood amongst all agencies involved and provide a full understanding of the current situation in near-real time. The three pillars of a COP are Information Awareness, Spatial Awareness, and Visual Awareness. Timely and accurate updates to these three pillars are essential to reducing risk and significantly improving operations. All these devices and systems are then tracked and monitored at the J6 Network Operations Center (NOC).



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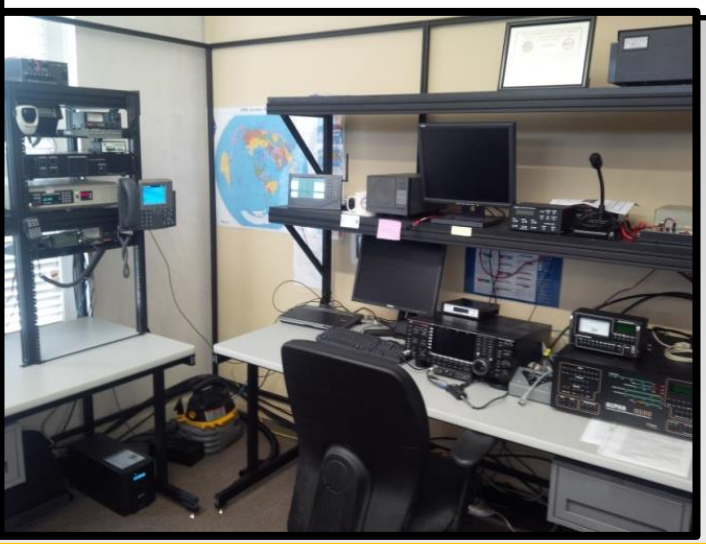
Communication Coordination Group (CCG)

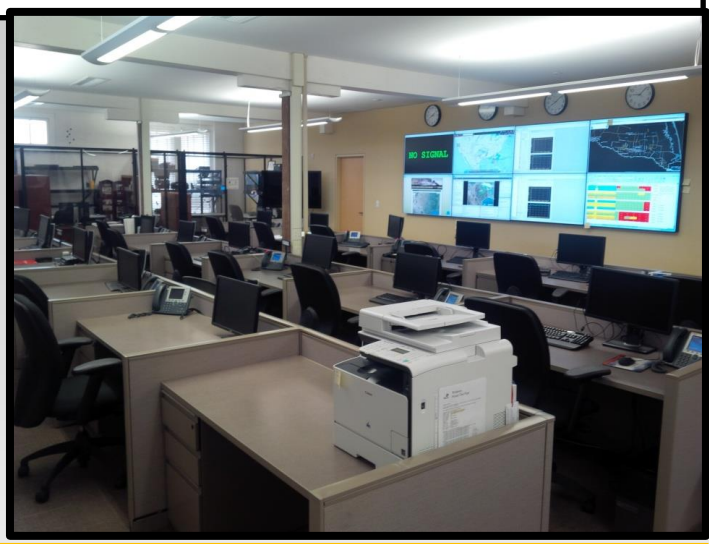
TX Govt Code § 418.051

MISSION: to facilitate interagency coordination and collaboration to provide efficient and effective planning and execution of communications support to joint, interagency, and intergovernmental task forces. [Lead Agency: Texas Division of Emergency Management (TDEM)]

Members

(1) the Texas military forces;
(2) TDEM
(3) the Federal Emergency Management Agency;
(4) federal agencies that comprise Emergency Support Function No. 2;
(5) the telecommunications industry, including cable service providers, as defined by Section 66.002, Utilities Code;
(6) electric utilities, as defined by Section 31.002, Utilities Code;
(7) gas utilities, as defined by Sections 101.003 and 121.001, Utilities Code;
(8) the National Guard's Joint Continental United States Communications Support Environment;
(9) the National Guard Bureau;
(10) amateur radio operator groups;
(11) the Texas A&M Forest Service;
(12) the Texas Department of Transportation;
(13) the General Land Office;
(14) the Texas A&M Engineering Extension Service;
(15) the Public Utility Commission of Texas;
(16) the Railroad Commission of Texas;
(17) the Department of State Health Services;
(18) the judicial branch of state government;
(19) the Texas Association of Regional Councils;
(20) the United States Air Force Auxiliary Civil Air Patrol, Texas Wing;
(21) each trauma service area regional advisory council;
(22) state agencies, counties, and municipalities affected by the emergency, including 9-1-1 agencies; and
(23) other agencies as determined by the division.





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Network Operations Center (NOC)

MISSION: Monitors, manages, de-conflicts, and coordinates all JTF Signal MRPs and networks utilized in support of the DSC, JTFs and/or Civil Authorities during domestic operations. You can call the NOC at (512) 782-1020.

Trigger: NOC stands up once communication MRP orders are published. SOC directs the stand up of the Communications Coordination Group (CCG) at the NOC when disasters require more space for the CCG than the SOC can provide.

Description
NOC provides one large centralized workspace for the IT professional of TMD and Partnered Agencies to maintain Situational Awareness of C4ISM solutions and teams supporting domestic operations.

Coordinating Entities
- TMD (ARNG, ANG, TXSG)
- JTFs
- Local Authorities
- Telecom Industry Partners
- TXDPS
- TXDIR
- TFS
- TXDOT
- FEMA
- DHS
- NCS
- Army MARS
- ARES
- RACES
- FCC
- CCG
- ARCYBER
- ARNORTH
- NGB

Supported Mission Sets (if resourced)
- Command and Control (C2)
- Cyberspace Support
- Cyber Incident Mitigation
- Civilian Critical Infrastructure (Protection & Augmentation)
- Incident Awareness and Assessment (IAA)
- Search and Rescue (SAR)
- B2C2WG
- Position Location Tracking
  - Transportation Movement
  - Emergency Evacuation Support
  - Distinguished Visitor Movement

STAR Submittals
- Texas Interoperable Communications Package MRP
- TAGs Mission Command Trailer MRP
- Joint Cyber Support Team
- Joint Cyber Response Team
- Mobile Emergency Operations Center MRP
- Joint Incident Site Communications Capability MRP
- HF Team MRP

Actions
- Direct support to JTF Signal – NOC NCOIC
- Communication MRPs deploy and the NOC tracks all movement and status. – NOC OIC
- Supports JTF Signal by centrally managing the networks of all Communication MRPs – NOC OIC
- Troubleshoot issues with organic equipment (SINCGARS, PRC-150, Motorola) and Ecomms equipment – J6 Ecomms Network Admin
- Center of information flow between deployed MRPs and JTF Signal – NOC OIC
- Coordinates and facilitates retrograde actions – NOC OIC

Critical Information
The FCC has plenary authority over the nation's spectrum before, during and after disasters.

Texas Military Forces is a designated member of the CCG as directed under Texas Law in 2009, Sec 418.051, TX Gov. Code. Serve as branch of the SOC for ESF2.

NOC and CCG are not combined, but rather co-located in order to achieve Unity of Effort.

Timeline
Phase I: Pre-Incident
- a.) Normal Operations –
- b.) Elevated Threat –
- c.) Credible Threat –

Phase II: Response
- a.) Initial – Stand Up NOC / Stand Up CCG
- b.) Deployment – Deploy LNOs / Retrograde Planning / Nodes Centrally Managed
- c.) Sustained Response – Shelters In-Place / Hourly Comms Check / Maintenance & Sustainment

Phase III: Enabling Recovery and Transition
- a.) Recovery – Coordinate with Local Authorities / Coordinate with Carriers / Maintenance & Sustainment continues / Inform JTF Signal once supported entities no longer need TMD support
- b.) Transition – Retrograde Coordination / Decrease Posture / Inventory & PMCS

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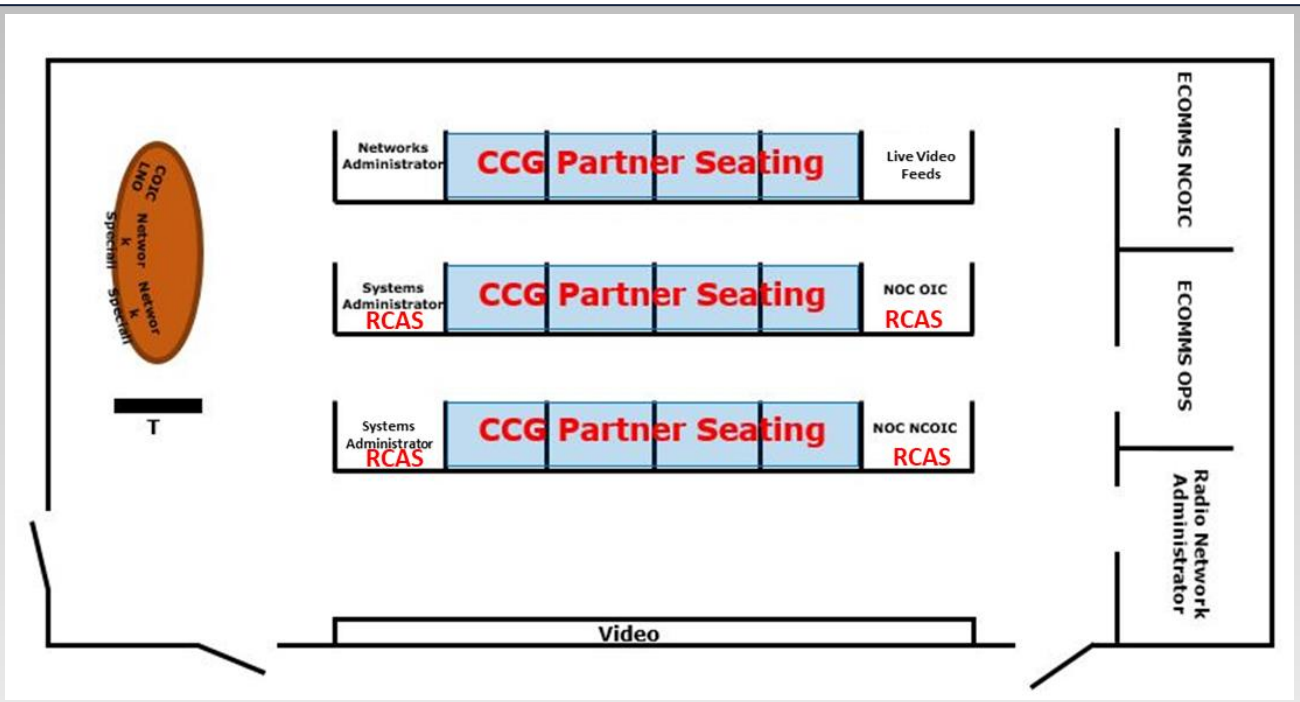
NOC (cont.)

NOC IOC: 1-3 personnel (temp detail) on duty in NOC from 0800-1800. Conduct basic reporting, FRAGO tracking and establish functioning video wall. Establish Battle Rhythm, CCIR, Alert Roster, Duty Roster, and Initial Running Estimates. Monnitor x5601 and x5001 when forwarded on Saturday, Sunday, and Evenings. Establish Log Book. Conduct Shift Change briefs and Daily NOC Hot Wash.

NOC FOC: Personnel assigned as primary / alternate Battle Captain and Battle NCO roles. RTO and COP / Video Wall Maintainer assigned. (2-5 pax) Operational Estimates. Establish NOC/J6 Incident email Inbox. All personnel on duty added to inbox.

Battle Rhythm (0600-1800: 7 days/week x 12 hours/day)

- 0530-6000 Arrive and stage NOC Ops; set up video wall as prescribed
- 0600-0700 all systems are live; begin conducting shift tasks
- 0830-0845 Prep conference room for 0900 Branch Chief Sync
- 0900-UTC Branch Chief Morning Sync
- 1000- Update PERSTAT upon receipt in NOC Inbox
- 1130-1200 Lunch for both shifts (rotate 30 mins max)
- 1245-1300 Prep conference room for 1300 Branch Chief Sync
- 1300-UTC Branch Chief Afternoon Sync
- 1500- COMSTATs are due to ng.tx.txarng.mbx.j6-ops@mail.mil
- 1730-1800 Shift Change prep (LOG for morning crew) Secure NOC



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What Do We Have?

Motorola APX Next is a Smart Radio with a touch screen and integrated with ATAK. Capable of VHF / UHF / 700 / 800 / Cellular. Compatible with AT&T FirstNet and Verizon sims. Near future update will enable WiFi hotspot capability.

Somewear Labs Puck is a portable re-chargeable satellite hotspot. This devices Bluetooth pairs with another device to provide short burst data services over the Emergency Management Satellite Services (EMSS) network.

Android Smartphone Cache Comprised of Verizon and AT&T devices Wireless Priority Services, GPS tracking enabled, user-friendly, and ATAK compatible with minimum of 64GB of storage capacity. Compatible with all mission command applications.

Cradle Points cellular broadband routers that provide services via multiple Cellular Service Providers. FirstNet Certified Band-14 supported. Certain models are capable of load balancing and traffic prioritization. Other models are 5G capable. Utilizing NetCoud network management suite.

ATAK (Android Team Awareness Kit) is a GOTS app for Android smartphones which uses GPS and maps to provide a real-time view of the Area of Operations. Compatible with Samsung devices and Guardian Portal.

DroneSense

DroneSense is an application and web-based platform which enables geographically dispersed end users to view high definition Small UAS live feeds from any device with network access.

RAVE MOBILE SAFETY

RAVE is top-down mass-warning notification solution compatible with smart devices, computers, social media and Mutualink. Can send notifications via text messaging, voice call email, social media & in-App notification.

Adobe Connect is a collaboration application that allows the users to view multiple sets of information simultaneously. It facilitates file sharing, share screen, chatting, note sharing, and conference bridging. Also enables TMD to control access with mission partners.

STARLINK

Starlink is a newly developed, cost effective, commercial and residential, high bandwidth satellite solution with 120-200 Mbps upload speeds and 200-400 Mbps download speeds.

Smartronix

Network Radio Gateway provides Voice over IP (VoIP)/Radio over IP (RoIP) conferencing, radio bridging & remote radio config. capabilities. Interop. with cell phones, Motorola radios, PRC-152s, PRC-150s, PRC-148s, SINCGARS, & TOCNET.

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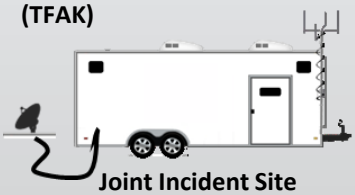
Types of Communication Assets

At – The - Halt

Texas Fly Away Kit (TFAK)

TAG's Mission Command Trailer (TMCT)

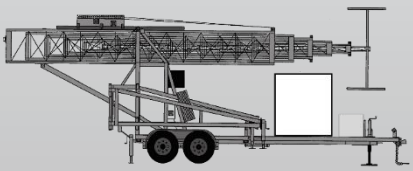
Radio Network Expansion Trailer (RNET)



Joint Incident Site Communications Capability (JISCC)

Texas Interoperable Communications Package (TICP)

Mobile Emergency Operations Center (MEOC)



100' Mobile Repeater Tower

On – The - Move

Laptops (Public Image)

Android Smartphones

Satellite Hotspot (Short Burst Data)

Iridium 9575 (SAT Phone)

Iridium 9505 (SAT Phone)

MiFi's

Cradle Points

Motorola (VHF/UHF/800)

Harris (Tri-Band)

APX Next

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Typical Communication Packages By Echelon
(Can be tailored to mission)

BnMC / BDE MC

MiFi's upon request if available

Motorola x 2
(Interoperable)

DSCA Cell Phones x 2
(ATAK - Tracking)

Public Laptop
BnMC 2 Laptops
BdeMC 4 Laptops

Cellular Broadband Router
BnMC x 1 router
BdeMC x 2 routers

MRP C2

MiFi's upon request if available

Public Laptop x 1

Motorola x 2
(Interoperable)

DSCA Cell Phones x 1
(ATAK - Tracking)

MRP

MiFi's upon request if available

Motorola x 4
(Interoperable)

DSCA Cell Phones x 2
(ATAK - Tracking)

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How Much Is Available?

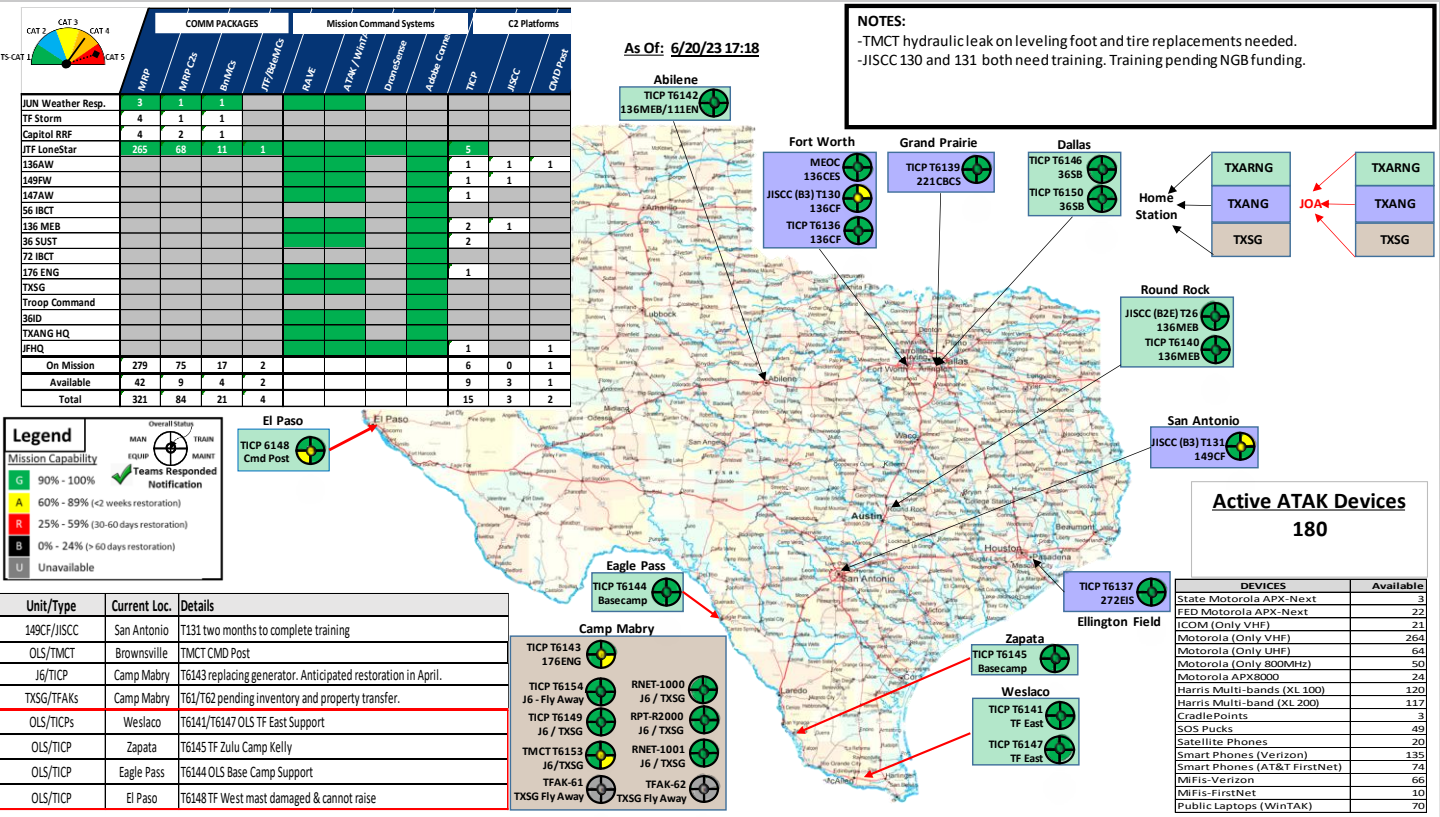
Dependent on Current Operations. J6 Ecomms maintains a Running Estimate (example below) that is updated weekly. This depicts a snapshot of equipment status; remaining equipment in the strategic reserve; what equipment has been deployed; what units have the equipment and in support of what mission. Ecomms must maintain a strategic reserve for follow-on concurrent missions.

IMPORTANT: Though the equipment may be "Available" it does not mean you may request all the remaining equipment. Requests should only be based on what is necessary for mission success… in other words if you don't have it the mission will fail or be severely hindered. After this base number is determined it is best practice to increase the request by **15-20%** to account for unforeseen surges, malfunctioning equipment, or other unplanned variables.

	COMM PACKAGES				Mission Command Systems				C2 Platforms		
	MRP	MRP C2s	BnMCS	JTF/BrdMCS	RAVE	ATAK /WinT	DroneSense	Adobe Connect	TICP	JISCC	CMD Post
JUN Weather Resp.	3	1	1								
TF Storm	4	1	1								
Capitol RRF	4	2	1								
JTF LoneStar	265	68	11	1					5		
136AW									1	1	1
149FW									1	1	
147AW									1		
56 IBCT											
136 MEB									2	1	
36 SUST									2		
72 IBCT											
176 ENG									1		
TXSG											
Troop Command											
36ID											
TXANG HQ											
JFHQ									1		1
On Mission	279	75	17	2					6	0	1
Available	42	9	4	2					9	3	1
Total	321	84	21	4					15	3	2

NOTES:
-TMCT hydraulic leak on leveling foot and tire replacements needed.
-JISCC 130 and 131 both need training. Training pending NGB funding.

As Of: 6/20/23 17:18



Legend

Mission Capability

G	90% - 100%
A	60% - 89% (<2 weeks restoration)
R	25% - 59% (30-60 days restoration)
B	0% - 24% (> 60 days restoration)
U	Unavailable

Overall Status: MAN, TRAIN, EQUIP, MAINT

Teams Responded Notification

Unit/Type	Current Loc.	Details
149CF/JISCC	San Antonio	T131 two months to complete training
OLS/TMCT	Brownsville	TMCT CMD Post
J6/TICP	Camp Mabry	T6143 replacing generator. Anticipated restoration in April.
TXSG/TFAKs	Camp Mabry	T61/T62 pending inventory and property transfer.
OLS/TICPs	Weslaco	T6141/T6147 OLS TF East Support
OLS/TICP	Zapata	T6145 TF Zulu Camp Kelly
OLS/TICP	Eagle Pass	T6144 OLS Base Camp Support
OLS/TICP	El Paso	T6148 TF West mast damaged & cannot raise

Active ATAK Devices
180

DEVICES	Available
State Motorola APX-Next	3
FED Motorola APX-Next	22
ICOM (Only VHF)	21
Motorola (Only VHF)	264
Motorola (Only UHF)	64
Motorola (Only 800MHz)	50
Motorola APX8000	24
Harris Multi-bands (XL 100)	120
Harris Multi-band (XL 200)	117
CradlePoints	3
SOS Pucks	49
Satellite Phones	20
Smart Phones (Verizon)	135
Smart Phones (AT&T FirstNet)	74
MiFis-Verizon	66
MiFis-FirstNet	10
Public Laptops (WinTAK)	70

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How Do I Get It?
(RFA Process)

To get these:

Laptops
(Public Image)

Android Smartphones

Satellite Hotspot
(Short Burst Data)

Iridium 9575
(SAT Phone)

Iridium 9505
(SAT Phone)

MiFi's

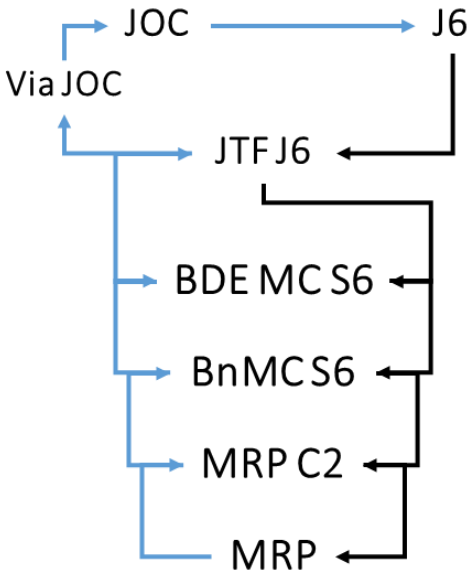
Cradle Points

Motorola
(VHF/UHF/800)

Harris
(Tri-Band)

APX Next

Submit the request following this process:



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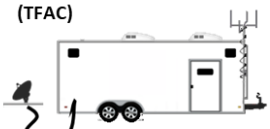
How Do I Get It?
(STAR Process)

To get these:

TAG's Mission Command Trailer (TMCT)

Texas Fly Away Kit (TFAC)

Radio Network Expansion Trailer (RNET)



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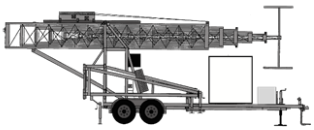
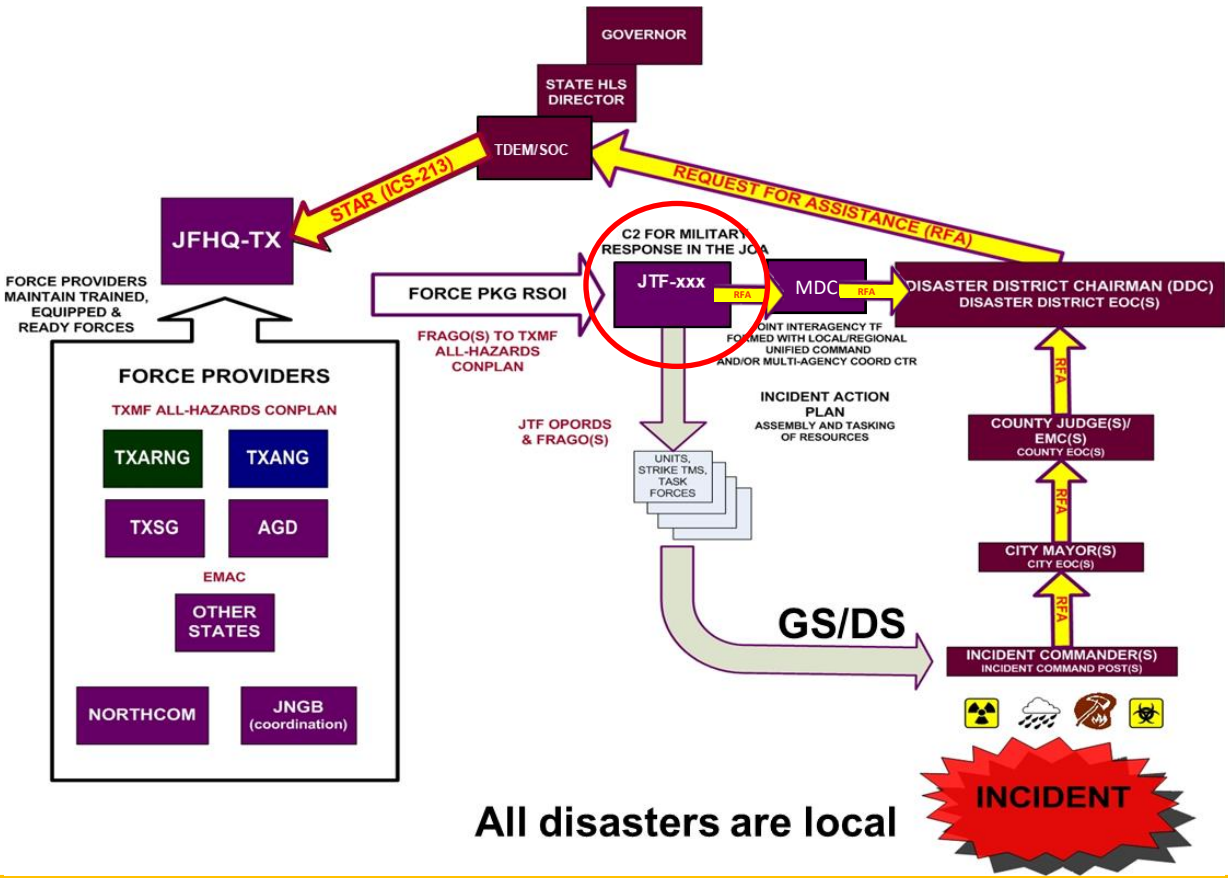


100' Mobile Repeater Tower

Submit the request following this process:



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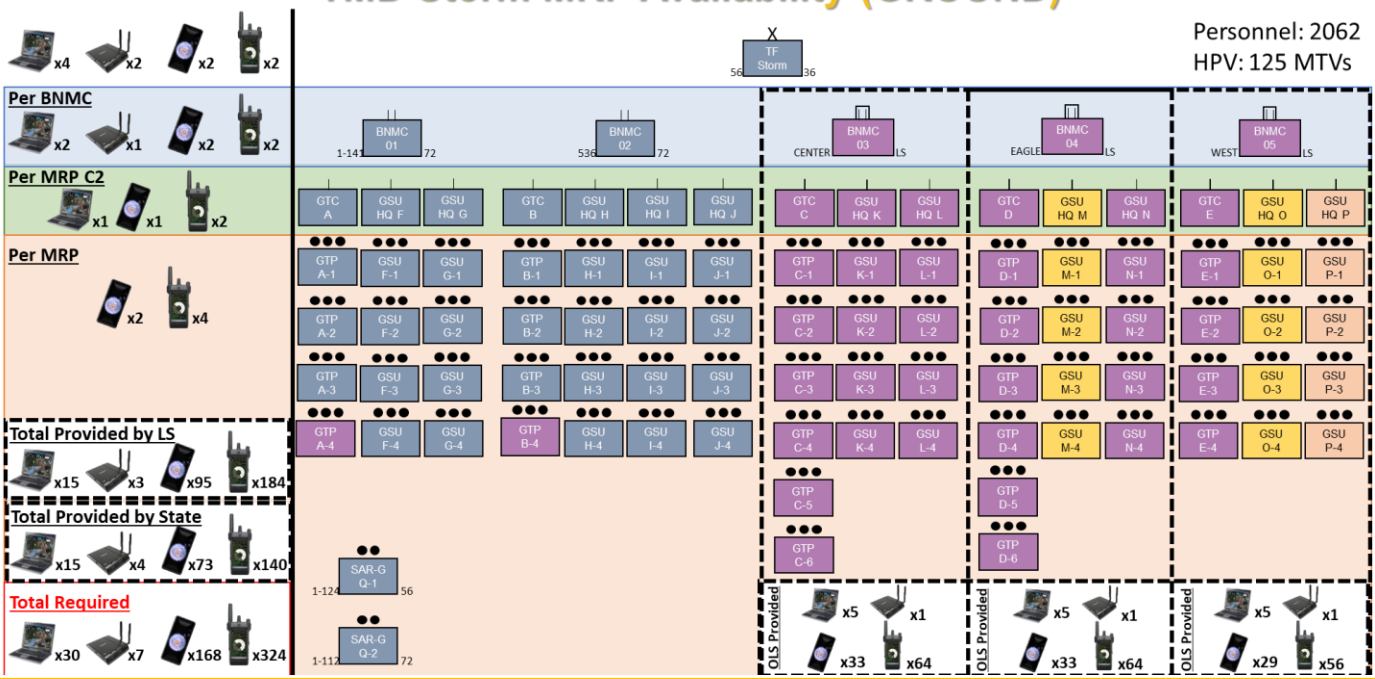
What's The Plan?

WARNORD 01 BPT

MRP	SMALL (LVL III) (TS – CAT 1)	MEDIUM (LVL II) (CAT 1-2)	LARGE (LVL I) (CAT 3-5)
	QTY	QTY	QTY
BDEMC	0	1	2
BNMC	1	2	~~2~~ 4
Rotary Wing	2	2	~~3~~ *EMAC*
GTCHQ	1	2	~~2~~ 4
GTP	4	10	20
TICP	2	2	8
GSU		5	10

TMD Storm MRP Availability (GROUND)



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State of Texas Assistance Request (STAR)

The state of Texas uses WebEOC, an online crisis management system, to support resource request management.

- Local jurisdictions, regional entities, state agencies and organizations may request resources to support disaster response operations.
- The Texas SOC fulfills requests for assistance with available resources from Emergency Management Council members, available contracts or vendors, interstate or federal resources, as available.
- The chart below provides an overview of emergency management coordination in Texas.

STAR Overview	
State Level	Texas State Operations Center
District Level	Disaster District Emergency Operations Center
Local Level	City/County

How a Request becomes a STAR:

- Locals submit a State of Texas Assistance Request (STAR) for a need that is beyond their capacity to fill and then submit the STAR through WebEOC.
- STAR Requests are then received by the Disaster District Coordinator and either filled by the disaster district with resources available within the district or pushed to the State Operations Center (SOC).
- Once a STAR is received at the SOC level, it is assigned to the responsible agency to fill, or sourced through other state partners, or through the Emergency Management Assistance Compact (EMAC) national mutual aid system.
- If a Federal Disaster Declaration has been granted, the SOC will push any request the state cannot fulfill to FEMA or the lead federal agency for assistance in fulfilling.

For additional information please visit: https://tdem.texas.gov/local-officials-resources/

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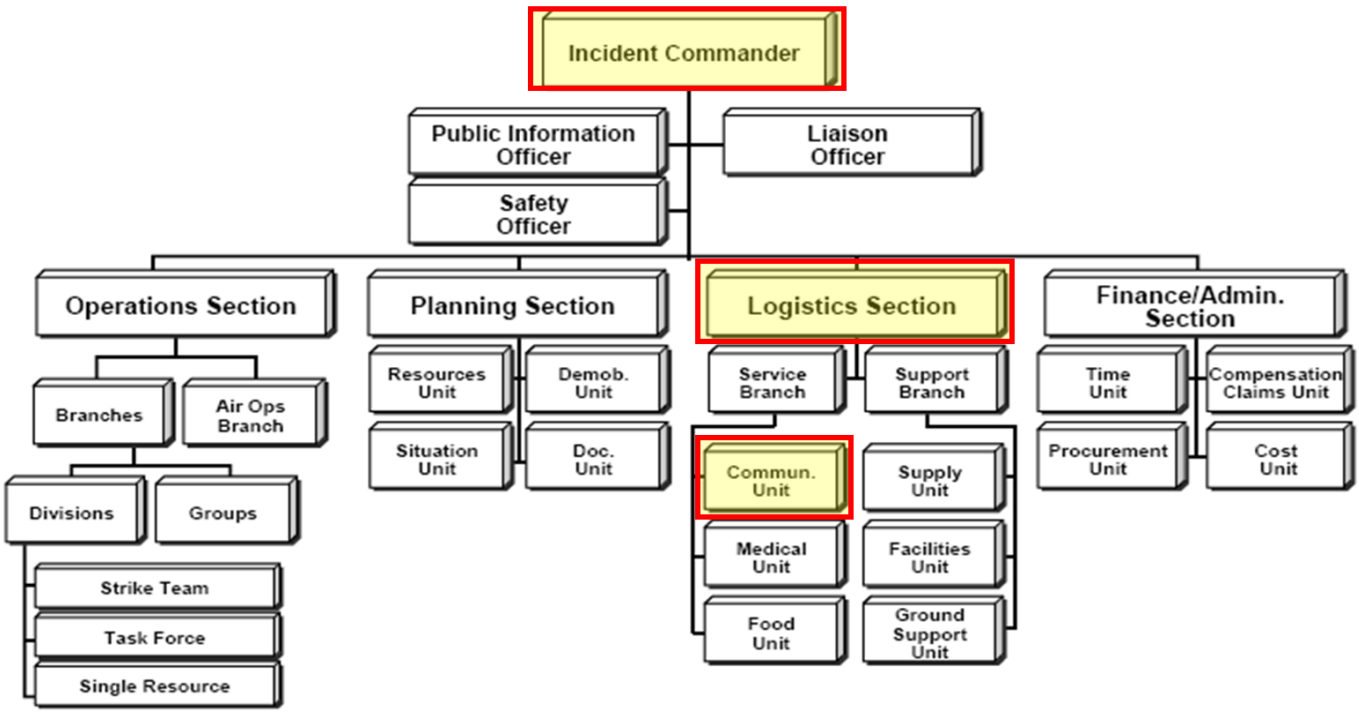
Where do I get my Frequencies or Channels?

Local Authorities respond to disasters using the National Incident Management System and the Incident Command System Structure. Below is an example of the Incident Command System Task Organization. Highlighted are the individuals responsible for assigning Channels and Frequencies. The responsible parties in order are: 1. Communications Unit Leader (COM-L); 2. Logistics Sections Chief; 3. Incident Commander. Attempt to gain Channels and Frequencies from these individuals **in that order**.

IMPORTANT: They will need to know what Channels and Frequencies you already have programmed into your radios. These are listed in the following pages. All J6 Ecomms radios are programmed with the Texas Statewide Inter-operable Channels via TxDPS radio programmers.



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Pre-Programmed Channels / Frequencies (VHF Lo)

VHF Lo Frequencies with Channels (aka Tactical Frequencies)

Use of all Frequencies in this channel plan are controlled by the J6. The use of these frequencies requires J6 authorization in writing.

PRC-148

SINCGARS RT-1523

Freq	Ch Name	Use	Remark
34.175	CALLING	TXMF Calling/Hailing Channel	Note 1
34.200	CMD 1	TXMF Bde/JTF Command Channel	Note 1
34.225	CMD 2	TXMF Bde/JTF Command Channel	Note 1
34.250	CMD 3	TXMF Bde/JTF Command Channel	Note 1
34.275	CMD 4	TXMF Bde/JTF Command Channel	Note 1
34.300	OPS 1	TXMF Operational TF Channel	Note 1
34.325	OPS 2	TXMF Operational TF Channel	Note 1
34.350	OPS 3	TXMF Operational TF Channel	Note 1
34.375	OPS 4	TXMF Operational TF Channel	Note 1
34.400	OPS 5	TXMF Operational TF Channel	Note 1
34.425	TAC 1	TXMF Tactical Channel	Note 1
34.450	TAC 2	TXMF Tactical Channel	Note 1
34.475	TAC 3	TXMF Tactical Channel	Note 1
34.500	TAC 4	TXMF Tactical Channel	Note 1
34.525	TAC 5	TXMF Tactical Channel	Note 1
34.550	TAC 6	TXMF Tactical Channel	Note 1
34.650	TAC 7	TXMF Tactical Channel	Note 1
34.675	TAC 8	TXMF Tactical Channel	Note 1
34.700	TAC 9	TXMF Tactical Channel	Note 1
34.725	TAC 10	TXMF Tactical Channel	Note 1
34.750	TAC 11	TXMF Tactical Channel	Note 1
34.775	TAC 12	TXMF Tactical Channel	Note 1
34.800	TAC 13	TXMF Tactical Channel	Note 1
34.825	TAC 14	TXMF Tactical Channel	Note 1
34.850	TAC 15	TXMF Tactical Channel	Note 1
34.875	TAC 16	TXMF Tactical Channel	Note 1
34.900	CONVOY	TXMF CONVOY	Note 1
36.900	VLOTAC4	Nationwide CONVOY	*Note 2*
38.500	VLOTAC2	Nationwide TACTICAL	*Note 2*
38.700	VLOTAC3	Nationwide AIR TO GROUND	*Note 2*
38.900	VLOMED	Nationwide MEDEVAC	*Note 2*
40.500	VLOTAC1	Nationwide CALLING CHANNEL	*Note 2*

Note 1 - supported by TICP and JISCC Mobile antenna

Note 2 - Not supported by TICP and JISCC mobile Antenna; requires using OE254

PRC-152

PRC-150

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Pre-Programmed Channels / Frequencies (VHF Hi)

VHF Hi Frequencies with Channels

Use of all Frequencies in this channel plan are controlled by the J6. The use of these frequencies requires J6 authorization in writing. Zones A, B, & C are for TMD operations. Zone "NGB" are Nationwide National Guard Channels.

Zone	Ch	Ch Name	Mode	Rcv Freq	Trans Freq	Rcv CTCSS/NAC	Trans CTCSS/NAC	Trans Deviation	Note	Use/Limitations
TEXAS NATIONAL GUARD *ROUTINE* CHANNELS										
A	1	NG CALL	Analog	149.8375	149.8375	127.3	127.3	2.5 KHz	1	TXNG Calling Channel
A	2	A1	Analog	140.4125	140.4125	127.3	127.3	2.5 KHz	1	TXNG Tactical Channel
A	3	A2	Analog	142.4000	142.4000	127.3	127.3	2.5 KHz	1	TXNG Tactical Channel
A	4	A3	Analog	143.6375	143.6375	127.3	127.3	2.5 KHz	1	TXNG Tactical Channel
A	5	A4	Analog	139.5750	139.5750	CSQ	127.3	2.5 KHz	1	TXNG Air-to-Ground Channel
A	6	A5	Analog	141.6750	141.6750	127.3	127.3	2.5 KHz	1	TXNG Tactical Channel
A	7	CONVOY	Analog	148.8250	148.8250	CSQ	none	2.5 KHz	1	TXNG Convoy Channel
A	8	Repeater	Analog	149.8375	168.3500	127.3	127.0	2.5KHz	1	TXNG AdHoc Repeater**
										**Note: Repeater must be installed and working
TEXAS NATIONAL GUARD *CONTINGENCY* CHANNELS										
B	1	B1	Analog	150.7375	150.7375	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	2	B1 RPT	Analog	150.7375	143.7375	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
B	3	B2	Analog	150.5875	150.5875	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	4	B2 RPT	Analog	150.5875	143.7125	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
B	5	B3	Analog	149.8500	149.8500	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	6	B3 RPT	Analog	149.8500	140.4125	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
B	7	B4	Analog	168.3500	168.3500	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	8	B4 RPT	Analog	168.3500	163.1000	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
B	9	B5	Analog	150.4750	150.4750	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	10	B5 RPT	Analog	150.4750	143.6625	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
B	11	B6	Analog	150.1000	150.1000	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	12	B6 RPT	Analog	150.1000	142.2375	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
B	13	B7	Analog	150.0750	150.0750	156.7	156.7	2.5 KHz	2	TXNG Tactical Channel
B	14	B7 RPT	Analog	150.0750	143.6375	156.7	156.7	2.5 KHz	2	TXNG Tactical Repeater Channel**
										**Note: Repeater must be installed and working
TEXAS NATIONAL GUARD *CONTINGENCY* CHANNELS (DIGITAL)										
C	1	C1	P25 Digital	150.7375	150.7375	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	2	C1 RPT	P25 Digital	150.7375	143.7375	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
C	3	C2	P25 Digital	150.5875	150.5875	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	4	C2 RPT	P25 Digital	150.5875	143.7125	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
C	5	C3	P25 Digital	149.8500	149.8500	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	6	C3 RPT	P25 Digital	149.8500	140.4125	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
C	7	C4	P25 Digital	168.3500	168.3500	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	8	C4 RPT	P25 Digital	168.3500	163.1000	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
C	9	C5	P25 Digital	150.4750	150.4750	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	10	C5 RPT	P25 Digital	150.4750	143.6625	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
C	11	C6	P25 Digital	150.1000	150.1000	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	12	C6 RPT	P25 Digital	150.1000	142.2375	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
C	13	C7	P25 Digital	150.0750	150.0750	$293	$293	2.5 KHz	3	TXNG Tactical Channel
C	14	C7 RPT	P25 Digital	150.0750	143.6375	$293	$293	2.5 KHz	3	TXNG Tactical Repeater Channel**
										**Note: Repeater must be installed and working
NATIONAL GUARD NATIONWIDE STATE-TO-STATE SUPPORT CHANNELS										
NGB	1	V1	Analog	148.0125	148.0125	156.7	156.7	2.5 KHz	4	NG Nationwide Calling Channel
NGB	2	V2	Analog	142.2875	142.2875	156.7	156.7	2.5 KHz	4	NG Nationwide Tactical Channel
NGB	3	V3	Analog	142.4250	142.4250	156.7	156.7	2.5 KHz	4	NG Nationwide Convoy Channel
NGB	4	V4	Analog	142.1000	142.1000	CSQ	none	2.5 KHz	4	NG Nationwide Air-to-Ground Channel
NGB	5	V5	Analog	150.6000	143.5000	156.7	156.7	2.5 KHz	4	NG Nationwide Tactical Repeater Channel**
NGB	6	V6	Analog	150.1500	142.8500	156.7	156.7	2.5 KHz	4	NG Nationwide Tactical Repeater Channel**
NGB	7	V7	Analog	149.2375	142.5875	156.7	156.7	2.5 KHz	4	NG Nationwide Tactical Repeater Channel**
NGB	8	V8	Analog	149.0125	142.5500	156.7	156.7	2.5 KHz	4	NG Nationwide Tactical Repeater Channel**
NGB	9	V9	Analog	149.1500	142.1250	156.7	156.7	2.5 KHz	4	NG Nationwide Tactical Repeater Channel**
										**Note: Repeater must be installed and working

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Pre-Programmed Channels / Frequencies (VHF Hi)

VHF Hi Frequencies with Channels (cont.)

Zone	Ch	Ch Name	Mode	Rcv Freq	Trans Freq	Rcv CTCSS/NAC	Trans CTCSS/NAC	Trans Deviation	Notes	
TEXAS VHF INTEROPERABILITY CHANNELS										
TX	1	TXCALL1D	Analog	154.9500	154.9500	156.7	156.7	2.5 KHz	5	Mobile-to-Mobile Calling Channel
TX	2	TXCALL2D	Analog	155.3700	155.3700	156.7	156.7	2.5 KHz	5	PRI: Calling Channel for State/Federal Aircraft to/from Base SEC: VCALL10 backup
TX	1	VMED28	Analog	155.3400	155.3400	CSQ	156.7	2.5 KHz	5	Tactical Channel (and Air-to-Ground Use)
TX	2	VMED29	Analog	155.3475	155.3475	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	3	VLAW31	Analog	155.4750	155.4750	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	4	VLAW32	Analog	155.4825	155.4825	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	5	VFIRE21	Analog	154.2800	154.2800	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	6	VFIRE22	Analog	154.2650	154.2650	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	7	VFIRE23	Analog	154.2950	154.2950	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	8	VFIRE24	Analog	154.2725	154.2725	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	9	VFIRE25	Analog	154.2875	154.2875	CSQ	156.7	2.5 KHz	5	Tactical Channel
TX	10	VFIRE26	Analog	154.3025	154.3025	CSQ	156.7	2.5 KHz	5	Tactical Channel (for Air-to-Ground State/ Federal Aircraft ONLY)
TEXAS FOREST SERVICE										
TFS	8	COMPACT	Analog	159.2850	159.2850	CSQ	127.3	2.5KHz	5	Texas Forest Service - Travel
NATIONAL VHF INTEROPERABILITY CHANNELS (ALL AGENCIES)										
US	1	VCALL10	Analog	155.7525	155.7525	CSQ	156.7	2.5 KHz	4	Nationwide Calling Channel
US	2	VTAC11	Analog	151.1375	151.1375	CSQ	156.7	2.5 KHz	4	Nationwide Tactical Channel
US	3	VTAC12	Analog	154.4525	154.4525	CSQ	156.7	2.5 KHz	4	Nationwide Tactical Channel
US	4	VTAC13	Analog	158.7375	158.7375	CSQ	156.7	2.5 KHz	4	Nationwide Tactical Channel
US	5	VTAC14	Analog	159.4725	159.4725	CSQ	156.7	2.5 KHz	4	Nationwide Tactical Channel
US	6	VTAC 17	Analog	161.8500	157.2500	CSQ	156.7	2.5 KHZ	4	Nationwide Tactical Repeater
US	7	VTAC 17D	Analog	161.8500	161.8500	CSQ	156.7	2.5 KHZ	4	Nationwide Direct
US	8	VTAC33	Analog	159.4725	151.1375	CSQ	136.5	2.5 KHz	4	Nationwide Tactical Repeater** Secondary 1
US	9	VTAC34	Analog	158.7375	154.4525	CSQ	136.5	2.5 KHz	4	Nationwide Tactical Repeater** Secondary 2
US	10	VTAC35	Analog	159.4725	158.7375	CSQ	136.5	2.5 KHz	4	Nationwide Tactical Repeater ** Secondary 3
US	11	VTAC36	Analog	151.1375	159.4725	CSQ	136.5	2.5 KHz	4	Nationwide Tactical Repeater ** Preferred 1
US	12	VTAC37	Analog	154.4525	158.7375	CSQ	136.5	2.5 KHz	4	Nationwide Tactical Repeater** Preferred 2
US	13	VTAC38	Analog	158.7375	159.4725	CSQ	136.5	2.5 KHz	4	Nationwide Tactical Repeater** Preferred 3
										**Note: Repeater must be installed and working
FEDERAL INCIDENT RESPONSE INTEROPERABILITY CHANNELS (ALL FEDERAL AGENCIES)										
IR	1	NC1	Analog	169.5375	164.7125	CSQ	167.9	2.5 KHz	5	Incident Calling Channel (Repeater)**
IR	2	IR1	Analog	170.0125	165.2500	CSQ	167.9	2.5 KHz	5	Incident Command 1 (Repeater)**
IR	3	IR2	Analog	170.4125	165.9625	CSQ	167.9	2.5 KHz	5	Medical Evacuation Control (Repeater)**
IR	4	IR3	Analog	170.6875	166.5750	CSQ	167.9	2.5 KHz	5	Logistics Control (Repeater)**
IR	5	IR4	Analog	173.0375	167.3250	CSQ	167.9	2.5 KHz	5	Interagency Convoy (Repeater)**
IR	6	IR5	Analog	169.5375	169.5375	CSQ	167.9	2.5 KHz	5	Incident Calling (Direct)
IR	7	IR6	Analog	170.0125	170.0125	CSQ	167.9	2.5 KHz	5	Incident Command 1 (Direct)
IR	8	IR7	Analog	170.4125	170.4125	CSQ	167.9	2.5 KHz	5	Medical Evacuation Control (Direct)
IR	9	IR8	Analog	170.6875	170.6875	CSQ	167.9	2.5 KHz	5	Logistics Control (Direct)
IR	10	IR9	Analog	173.0375	173.0375	CSQ	167.9	2.5 KHz	5	Interagency Convoy (Direct)
										**Note: Repeater must be installed and working
FEDERAL LAW ENFORCEMENT INTEROPERABILITY CHANNELS (ALL FEDERAL LAW ENFORCEMENT)										
LE	1	LE A	Analog	167.0875	167.0875	CSQ	167.9	2.5 KHz	5	Calling Channel (Direct)
LE	2	LE 1	Analog	167.0875	162.0875	CSQ	167.9	2.5 KHz	5	Tactical (Repeater)**
LE	3	LE 2	P25 Digital	167.2500	162.2625	$68F	$68F	2.5 KHz	5	Tactical (Repeater)**
LE	4	LE 3	P25 Digital	167.7500	162.8375	$68F	$68F	2.5 KHz	5	Tactical (Repeater)**
LE	5	LE 4	P25 Digital	168.1125	163.2875	$68F	$68F	2.5 KHz	5	Tactical (Repeater)**
LE	6	LE 5	P25 Digital	168.4625	163.4250	$68F	$68F	2.5 KHz	5	Tactical (Repeater)**
LE	7	LE 6	P25 Digital	167.2500	167.2500	$68F	$68F	2.5 KHz	5	Direct Channel on LE2 Repeater Output
LE	8	LE 7	P25 Digital	167.7500	167.7500	$68F	$68F	2.5 KHz	5	Direct Channel on LE3 Repeater Output
LE	9	LE 8	P25 Digital	168.1125	168.1125	$68F	$68F	2.5 KHz	5	Direct Channel on LE4 Repeater Output
LE	10	LE 9	P25 Digital	168.4625	168.4625	$68F	$68F	2.5 KHz	5	Direct Channel on LE5 Repeater Output
										**Note: Repeater must be installed and working

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Pre-Programmed Channels / Frequencies (UHF)

UHF Frequencies with Channels

Use of all Frequencies in this channel plan are controlled by the J6. The use of these frequencies requires J6 authorization in writing.

ZONE A					
Ch	Ch Name	Mobile Receive Freq	Mobile Transmit Freq	CTCSS/NAC	Purpose/Use
1	A1	397.4250	397.4250	156.7 (5A) TX & RX	General use common channel (analog)-Calling Channel
2	A2	397.4750	397.4750	156.7 (5A) TX & RX	General use common channel (analog)
3	A3	397.5500	397.5500	156.7 (5A) TX & RX	General use common channel (analog)-Convoy
4	A4	397.9500	397.9500	CSQ	General use common channel (analog)-Air to Ground
5	A5	398.0500	398.0500	NAC $668	General use common channel (digital)
6	A6	399.4250	399.4250	NAC $668	General use common channel (digital)
7	A7	399.4750	399.4750	NAC $668	General use common channel (digital)
8	A8	399.7250	399.7250	NAC $668	General use common channel (digital)
9	A9	388.0125	388.0125	NAC $668	General use common channel (digital)
10	A10	398.0125	398.0125	NAC $668	General use common channel (digital)
11	A11	396.0250	396.0250	NAC $668	General use common channel (digital)
12	A12	396.1750	386.1750	NAC $668	Repeater (Alternate JISCC Repeater Channel 4)
13	A13	396.2375	386.2375	NAC $668	Repeater (Alternate JISCC Repeater Channel 3)
14	A14	396.3250	386.3250	NAC $668	Repeater *(Standard JISCC Repeater Channel 1)*
15	A15	396.3875	386.3875	NAC $668	Repeater (Alternate JISCC Repeater Channel 2)
16	A16	396.4750	386.4750	NAC $668	Repeater (Alternate JISCC Repeater Channel 5)

ZONE B					
Ch	Ch Name	Mobile Receive Freq	Mobile Transmit Freq	CTCSS/NAC	Purpose/Use
1	B1	399.9250	389.9250	NAC $668	HRF C2 REPEATER
2	B2	396.8750	396.8750	NAC $668	HRF O&I
3	B3	397.1250	397.1250	NAC $668	HRF A&L
4	B4	397.1750	397.1750	NAC $668	CBRNE TF C2 / CERFP CRFP C2
5	B5	397.3750	397.3750	NAC $668	MED
6	B6	386.0875	386.0875	NAC $668	DECON
7	B7	396.9250	386.9250	NAC $668	S&E REPEATER
8	B8	396.0875	396.0875	NAC $668	FRST
9	B9	386.5375	386.5375	NAC $668	SECEL
10	B10	396.5375	396.5375	NAC $668	SECEL
11	B11	385.1875	385.1875	NAC $668	SECEL
12	B12	395.1875	395.1875	NAC $668	COMMO
13	B13	396.6250	386.6250	NAC $668	SPARE REPEATER
14	B14	396.3250	386.3250	NAC $668	SPARE REPEATER *(Standard JISCC Repeater Channel 1)*
15	B15	386.8375	386.8375	156.7 (5A) TX & RX	SPARE
16	B16	396.8375	396.8375	156.7 (5A) TX & RX	SPARE

ZONE C					
Ch	Ch Name	Mobile Receive Freq	Mobile Transmit Freq	CTCSS	Purpose/Use
1	UCALL40	453.2125	458.2125	156.7 TX & RX	Interoperability Calling Channel - Repeater
2	UCALL40D	453.2125	453.2125	156.7 TX & RX	Interoperability Calling Channel - Direct
3	UTAC41	453.4625	458.4625	156.7 TX & RX	Tactical Interoperability Repeater
4	UTAC41D	453.4625	453.4625	156.7 TX & RX	Tactical Interoperability Direct Channel
5	UTAC42	453.7125	458.7125	156.7 TX & RX	Tactical Interoperability Repeater
6	UTAC42D	453.7125	453.7125	156.7 TX & RX	Tactical Interoperability Direct Channel
7	UTAC43	453.8625	458.8625	156.7 TX & RX	Tactical Interoperability Repeater
8	UTAC43D	453.8625	453.8625	156.7 TX & RX	Tactical Interoperability Direct Channel
9	NC2 Calling	419.2375	410.2375	167.9 TX only	Fed InterAgency Channel - Repeater
10	IR10	419.4375	410.4375	167.9 TX only	Fed InterAgency Channel - Repeater
11	IR11	419.6375	410.6375	167.9 TX only	Fed InterAgency Channel - Repeater
12	IR12	419.8375	410.8375	167.9 TX only	Fed InterAgency Channel - Repeater
13	IR13	413.1875	413.1875	167.9 TX only	Fed InterAgency Channel - Direct
14	IR14	413.2125	413.2125	167.9 TX only	Fed InterAgency Channel - Direct
15	IR15	410.2375	410.2375	167.9 TX only	Fed InterAgency Channel - Direct
16	FRS CH 1 Code1	462.5625	462.5625	67.0 TX & RX	FRS Interoperability

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Pre-Programmed Channels / Frequencies (700 / 800 MHz)

700/800MHz Frequencies with Channels

Use of all Frequencies in this channel plan are controlled by the J6. The use of these frequencies requires J6 authorization in writing. TXNG owns no channels in these radios. All channels are on FCC frequencies assigned to Texas public safety agencies. TXNG utilizes these frequencies via MOU with the State of Texas. Zone 10 is ONLY available by official request to TXWARN.

	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8	ZONE 9	ZONE 10
	LCRA	TXWARN	TXWARN	TXWARN	TXWARN	MRGDC	MRGDC	MRGDC	GATRRS	STDC
CH #	LC	75	76	77	78	M4 OP	M3 PS	M2 MED	TX DPS	TX STX
1	LC_SAC - INOP	TXWARN 1	TXWRNDIS	GCI 1	PUB HLTH	MRG OP1	MRG PS1	MRG IFD1	DPS LESD1	TX STX 01
2	LC_SA_1 - INOP	TXWARN 2	TXWRNTAC	GCI 2	CMOC 1	MRG OP2	MRG PS2	MRG IFD2	DPS LESD2	TX STX 02
3	LC_SA_2 - INOP	TXWARN 3	HC MA 1	GCI 3	CMOC 2	MRG OP3	MRG PS3	MRG IFD3_	DPS LESD3	TX STX 03
4	BEX_LAW - INOP	TXWARN 4	HC MA 2	GCI 4	CMOC 3	MRG OP4	MRG PS4	MRG IFD4	DPS LESD4	TX STX 04
5	BEXFIRE - INOP	TXWARN 5	HC MA 3	GCI 5	CMOC 4	MRG OP5	MRG PS	MRG IFD5	DPS LESD5	TX STX 05
6	PUB_CM1 - INOP	TXWARN 6	HC MA 4	GCI 6	CMOC 5	MRG OP6	MRG PS6	MRG MED1	blank	TX STX 06
7	PUB_CM2 - INOP	TXWARN 7	HC MA 5	GCI 7	CMOC 6	MRG OP7	MRG PS67	MRG MED2	blank	TX STX 07
8	FIRECM1- INOP	TXWARN 8	HC MA 6	GCI 8	CIMA 1	MRG OP8	MRG PS68	MRG MED3	blank	TX STX 08
9	FIRECM2 - INOP	TXWARN 9	HC MA 7	GCI 9	CIMA 2	MRG OP9	MRG PS69	MRG MED4	blank	TX STX 09
10	FIRECM3 – INOP	TXWARN 10	HC MA 8	GCI 10	CIMA 3	MRG OP10	MRG PS610	MRG MED5	blank	TX STX 10
11	LC_CM_1	TXWARN 11	HC MA 9	GCI 11	CIMA 4	blank	blank	blank	blank	TX STX 11
12	LC_CM_2	TXWARN 12	HC MA 10	GCI 12	CIMA 5	blank	blank	blank	blank	TX STX 12
13	LC_CM_3	TXWARN 13	HC MA 11	GCI 13	blank	blank	blank	blank	blank	TX STX 13
14	LC_CM_4 - INOP	TXWARN 14	HC MA 12	GCI 14	blank	blank	blank	blank	blank	TX STX 14
15	LC_CM_5 - INOP	TXWARN 15	HC MA 13	GCI 15	blank	blank	blank	blank	blank	TX STX 15
16	BEX_COM - IMOP	TXAIROP	HC MA 14	GCI 16	blank	blank	blank	blank	blank	blank

	ZONE 11	12	13	14	15	16	17	18	19	20
	GATRRS	GATRRS	GATRRS	GATRRS	GATRRS	700 I/O	700 I/O	700 I/O	700 I/O	800 I/O
CH #	TX GCI	TX AUS	G1 R OP	F1 R PW	E1 R PS	7CALL50	7CALL70	7LAW	7MED/FD	8CALL
1	GCI AUS01	AUS 01	R OP 01	R PW 01	R PS 01	7CALL50	7CALL70	7LAW61	7MED65	8CALL90
2	GCI AUS02	AUS 02	R OP 02	R PW 02	R PS 02	7CALL50D	7CALL70D	7LAW61D	7MED65D	8TAC91
3	GCI AUS03	AUS 03	R OP 03	R PW 03	R PS 03	7TAC51	7TAC71	7LAW62	7MED66	8TAC92
4	GCI AUS04	AUS 04	R OP 04	R PW 04	R PS 04	7TAC51D	7TAC71D	7LAW62D	7MED66D	8TAC93
5	GCI AUS05	AUS 05	R OP 05	R PW 05	R PS 05	7TAC52	7TAC72	7LAW81	7MED86	8TAC94
6	GCI AUS06	AUS 06	R OP 06	R PW 06	R PS 06	7TAC52D	7TAC72D	7LAW81D	7MED86D	8CALL90D
7	GCI AUS07	AUS 07	R OP 07	R PW 07	R PS 07	7TAC53	7TAC73	7LAW82	7MED87	8TAC91D
8	GCI AUS08	AUS 08	R OP 08	R PW 08	R PS 08	7TAC53D	7TAC73D	7LAW82D	7MED87D	8TAC92D
9	GCI AUS09	AUS 09	R OP 09	blank	R PS 09	7TAC54	7TAC74	7MOB59	7FIRE63	8TAC93D
10	GCI AUS10	AUS 10	R OP 10	blank	R PS 10	7TAC54D	7TAC74D	7MOB59D	7FIRE63D	8TAC94D
11	GCI AUS11	AUS 11	R OP 11	blank	R PS 11	7TAC55	7TAC75	7MOB79	7FIRE64	8TAC95D
12	GCI AUS12	AUS 12	R OP 12	blank	R PS 12	7TAC55D	7TAC75D	7MOB79D	7FIRE64D	8TAC96D
13	GCI AUS13	AUS 13	R OP 13	blank	R PS 13	7TAC56	7TAC76	blank	7FIRE83	8TAC97D
14	GCI AUS14	AUS 14	R OP 14	blank	R PS 14	7TAC56D	7TAC76D	blank	7FIRE83D	blank
15	GCI AUS15	AUS 15	R OP 15	blank	R PS 15	7GTAC57	7GTAC77	blank	7FIRE84	blank
16	8TAC95D	8TAC95D	8TAC95D	8TAC95D	8TAC95D	7GTAC57D	7GTAC77D	blank	7FIRE84D	blank

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Where do I find the Signal Operating Instructions?

Local Authorities will add you to the ICS-205 and provide a copy. Below is an example of the Incident Command System Form 205 (ICS-205). This is the civilian equivalent to the Military's Signal Operating Instructions (SOI) or Communications Card (Commo. Card). This document dictates what Channels/Frequency are being used with specific Agencies during an incident. The Communications Unit Leader (COM-L) of the Incident will dictate the Channels/Frequencies of every responding agency within the Area of Operation, including the Texas Military Department.

IMPORTANT: There are significant legal liabilities to TMD should anyone operate outside of the authorized frequencies assigned by the COM-L on this ICS-205 or the frequencies listed on the "Authorized Frequencies for Tactical Radios" page of this field guide.

INCIDENT RADIO COMMUNICATIONS PLAN (ICS205)			Incident Name: LAURA			Date/Time YYYYMMDD / HHHH		Operational Period Date/Time 20200826-20200827 0700-0700	
Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks
1	COMMAND	EOC2EOC	HGAC County EOCs	TXWARN 800	N/A	TXWARN 800	N/A	T	
2	TACTICAL	HC P1	HC Precinct 1	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Commissioner PCT 1
3	TACTICAL	HC P2	HC Precinct 2	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Commissioner PCT 2
4	TACTICAL	HC P3	HC Precinct 3	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Commissioner PCT 3
5	TACTICAL	HC P4	HC Precinct 4	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Commissioner PCT 4
6	TACTICAL	HCEM 1	HCOHSEM Daily Ops	TXWARN 800	N/A	TXWARN 800	N/A	T	HCOHSEM
7	TACTICAL	HC FM 1	FM Operations	TXWARN 800	N/A	TXWARN 800	N/A	T	HCFMO
8	TACTICAL	HC HM-4	HC HAZMAT	TXWARN 800	N/A	TXWARN 800	N/A	T	HCFMO
9	TACTICAL	HC PHES 1	HC Public Health	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Public Health
10	TACTICAL	HC PHES 2	HC Public Health	TXWARN 800	N/A	TXWARN 800	N/A	T	HCPH specimen collection
11	TACTICAL	HCUS LTE	HCUS MCV	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Universal Services (HCUS) Radio
12	TACTICAL	FIELD INTEROP	HCUS RNOC	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Universal Services (HCUS) Radio
13	TACTICAL	US FIELD OPS	HCUS Radio Field Team	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Universal Services (HCUS) Radio
14	TACTICAL	TXWARN-TAC	HCUS Water Rescue	TXWARN 800	N/A	TXWARN 800	N/A	T	HC Universal Services Water Rescue Team
15	TACTICAL	TXWARN 1	HCUS RNOC	TXWARN 800	N/A	TXWARN 800	N/A	T	Link to Austin
16	TACTICAL	TXWARN 2	HCUS RNOC	TXWARN 800	N/A	TXWARN 800	N/A	T	Link to Austin
17	TACTICAL	TXWARN 3	HCUS RNOC	TXWARN 800	N/A	TXWARN 800	N/A	T	Link to Austin
18	TACTICAL	TXWARN 9	TX MIL Department	TXWARN 800	N/A	TXWARN 800	N/A	T	Support
19	TACTICAL	TXWARN 10	TX MIL Department	TXWARN 800	N/A	TXWARN 800	N/A	T	Support
20	TACTICAL	HC MA 1	All LE Agencies	TXWARN 800	N/A	TXWARN 800	N/A	T	(Dedicated)
21	TACTICAL	HC MA 2	LIFEFLIGHT/Air Rescue	TXWARN 800	N/A	TXWARN 800	N/A	T	(Dedicated)
22	TACTICAL	HC MA 3	HCUS RNOC	TXWARN 800	N/A	TXWARN 800	N/A	T	Air Med & LE Backup
23	TACTICAL	HC MA 8	TXDPS Operations-until 31 Dec	TXWARN 800	N/A	TXWARN 800	N/A	T	D. Stanfield; 979-578-1133
24	TACTICAL	HC MA 9 (LE USE)	COVID-19 (HCPH) (RR-Inn Shelter)	TXWARN 800	N/A	TXWARN 800	N/A	T	HCSO Sgt. Brawner 281-732-3918
25	TACTICAL	HC MA 10	COVID-19 (HCPH) (Pridgeon Stadium)	TXWARN 800	N/A	TXWARN 800	N/A	T	HC PH, N. Vessey 832-603-1535
Prepared By (Communications Unit) First Name Last Name, COM-L						Incident Location County, Texas			

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Interoperable LMRs (VHF Lo)

Kenwood TK-6110 34.0 – 40.9 MHz / 32 channels / 8KHz FM, 70 watts / SINCGARS Interoperability / Single Channel / Plain Text / **Located inside TICPs**

Interoperability with:

PRC-148

PRC-152

PRC-150

SINCGARS RT-1523

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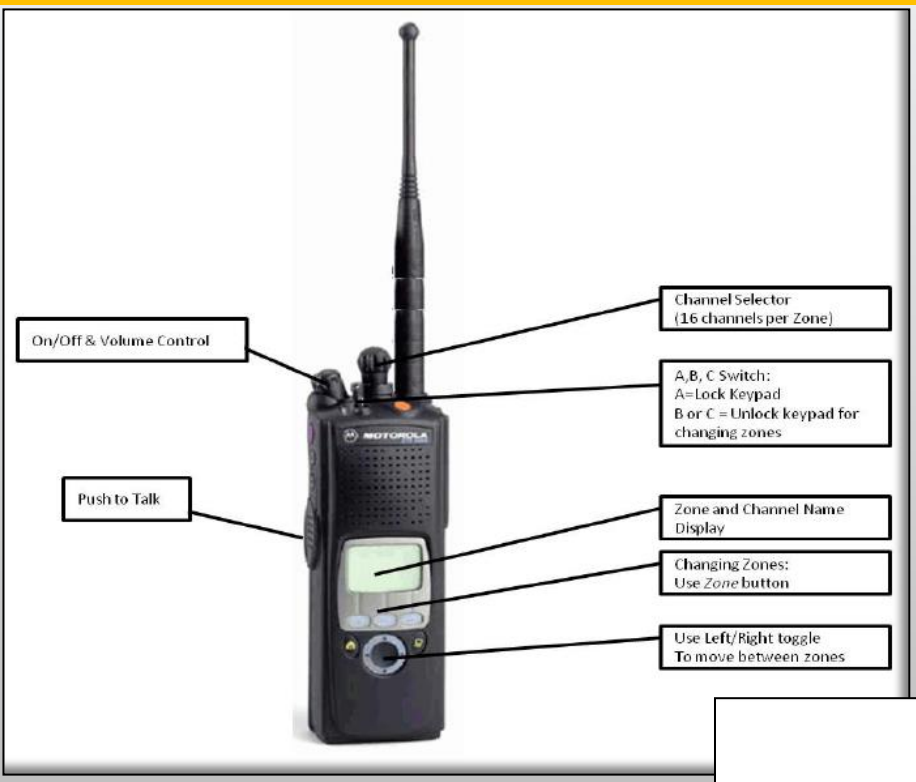
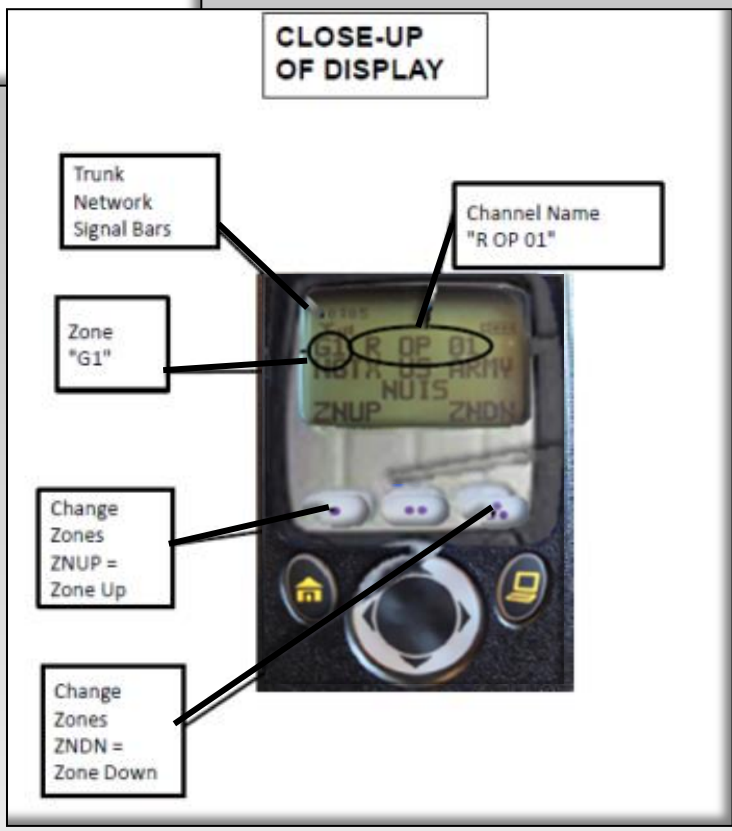
Interoperable LMRs (VHF Hi)





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Interoperable LMRs (UHF)

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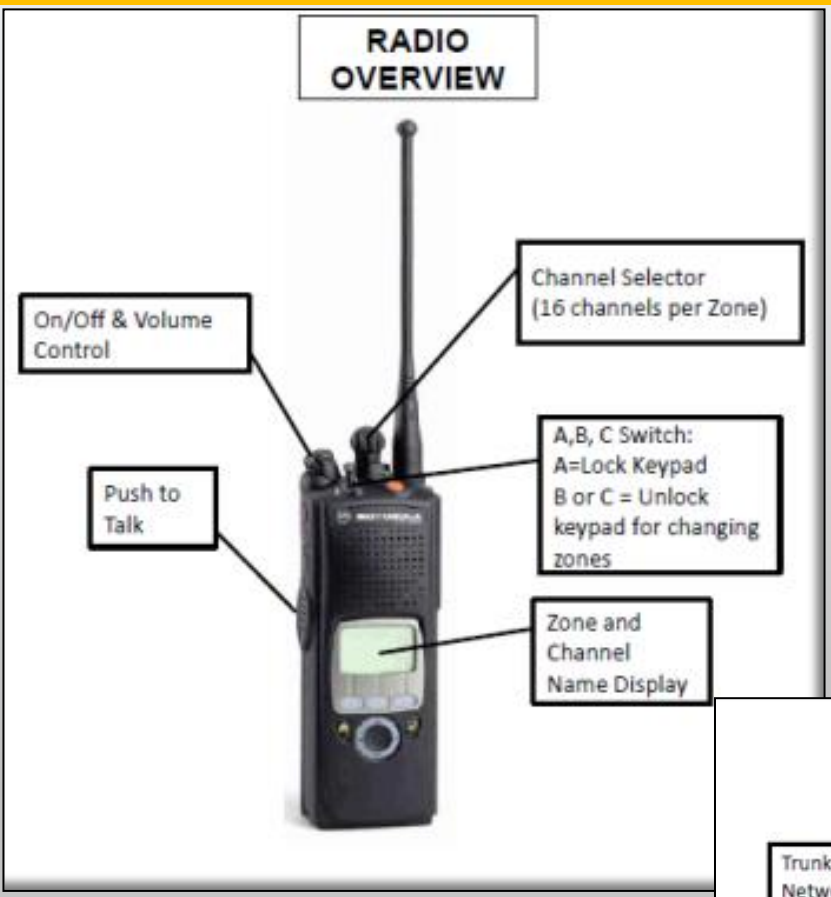
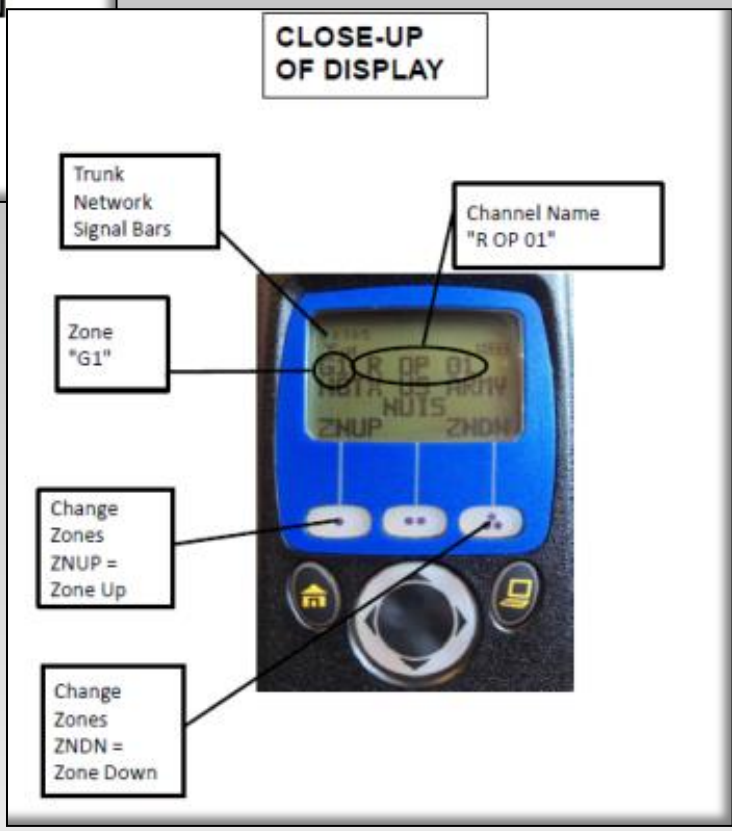
Interoperable LMRs (700/800 MHz)





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Interoperable Harris Radios (Multi-Band)

Harris Unity Multi-Band Radios VHF / UHF / 800MHz

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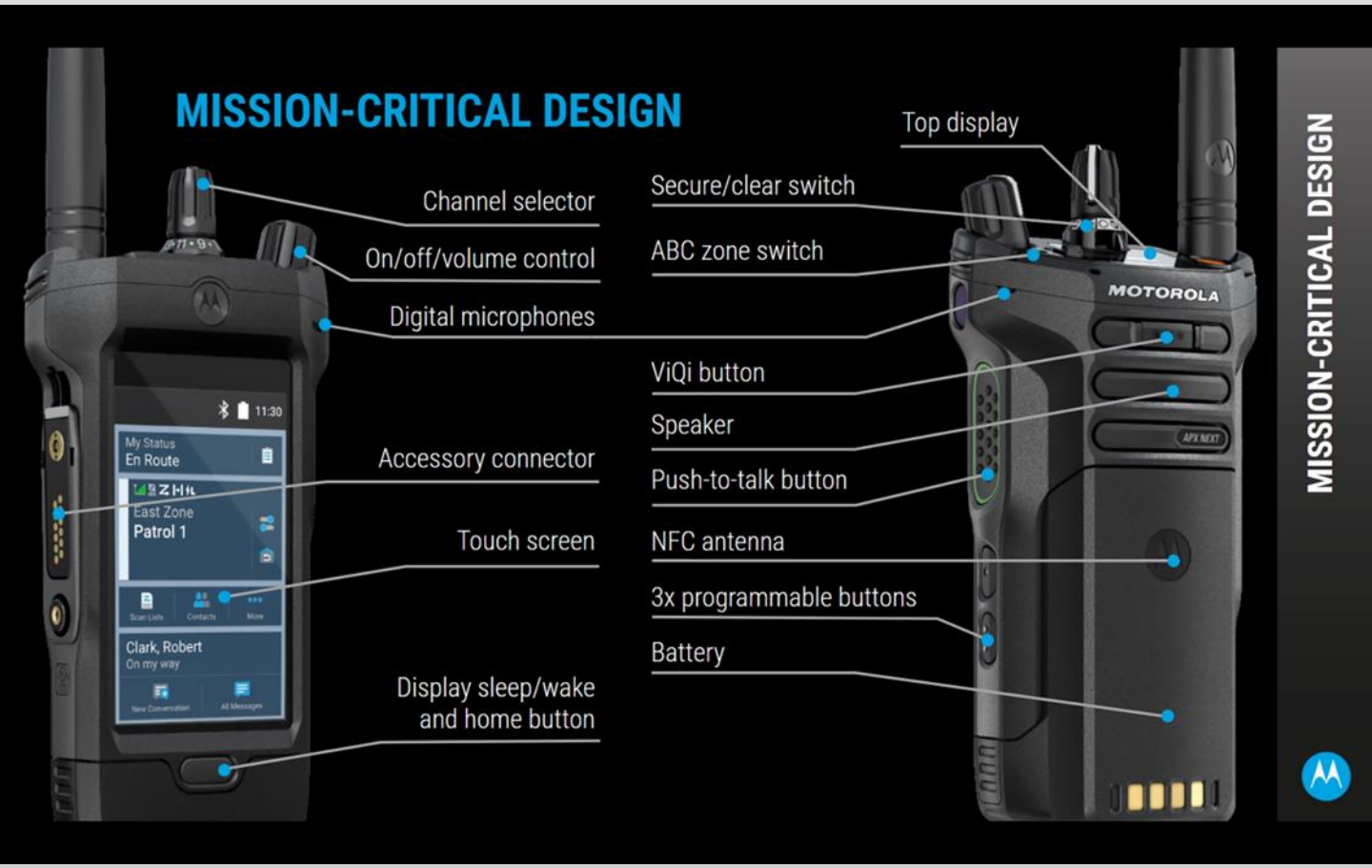
Interoperable Harris Radios (Multi-Band)

Motorola Multi-Band Smart Radios VHF / UHF / 800MHz / Cellular / ATAK Capable / GPS Tracking



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TAG's Mission Command Trailer (TMCT)

MISSION: To provide the Adjutant General of Texas and, if permitted, Joint Task Force/Dual Status Commanders rapid, reliable and interoperable voice, data, and radio network capabilities in austere environments during emergencies throughout the state.

FEATURES

- **Command Post Comm Support**
- **TMD J6 Provided System**
- 9 SIP Phones
- 9 Laptops
- 1 Printer
- 8 work stations
- Internet/WiFi via satellite and 4G
- On-board 12.5 KW Quiet Diesel Generator
- Climate controlled work stations
- 40ft pneumatic antenna mast with LMR antennas
- VHF/UHF/800 Land Mobile Base Radio
- VHF-Low Base Radio – InterOp with Army SINCGARS radio
- Radio over IP capability bridging/linking (Network Radio Gateways)
- Roof Mounted Satellite Dish
- NGB Commercial Satellite access (8x3 Mbps)
- Locally designed and built by TMD J6 personnel
- Towable Minimum ¾ Ton Pickup with Class III hitch

**Option to augment w/ 1 available Sprint Femtocell (1 mi. radius 3G service)*

1 Trailer


TXARNG/TXSG


Computers x6


Printer


PEPLink 4G LTE (Dual Carrier) WiFi Access


Sprint Air Rave Cell Site


Network Radio Gateway


Phones x6


VHF VHF UHF 800 MHz VHF-Lo


Network Rack

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Mobile Emergency Operation Center (MEOC)

MISSION: To support the Homeland Response Force (HRF) by providing reliable and interoperable voice, data, and radio network capabilities in austere environments during emergencies throughout the state FEMA Region VI.

FEATURES

- **Command Post Comm Support**
- **NGB Air National Guard Provided System**
- 10 VOIP Phones
- 10 Climate Controlled Workstations
- 10 Flat Screen TV Monitors
- 1 HP Color LaserJet Printer
- Internet/WiFi via satellite and 4G
- NIPR Access
- On-board 20 KW Diesel Generator (x2)
- Dell PowerEdge R210 Server
- Two Toshiba DVR's
- Smart Board
- 40ft pneumatic mast with LMR antennas
- Direct TV Satellite Internet Feed
- Harris Tactical Radios
- Raytheon ACU-2000
- 3x Harris Unity Multiband Radios
- PRC-150 & PRC-152
- Radio Over IP Capability (bridging & linking)
- 360 Degree Video Monitoring System
- Orion Weather Station
- Local & Regional Satellite TV Feeds
- Digital Video Recording
- Roof Mounted Satellite Dish
- NGB provided satellite service
- On-board Heat Pump / 50 Gal. Water Tank
- Refrigerator / Coffee Maker / Microwave / Bathroom / 3-5 Day Self Sustaining

1 Trailer

TXANG

Raytheon ACU-2000

VHF
UHF
700/800

x 10

x 10

Mobile WiFi Hotspot

HP LaserJet Printer

Video Conferencing

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Texas Interoperable Communications Package (TICP)

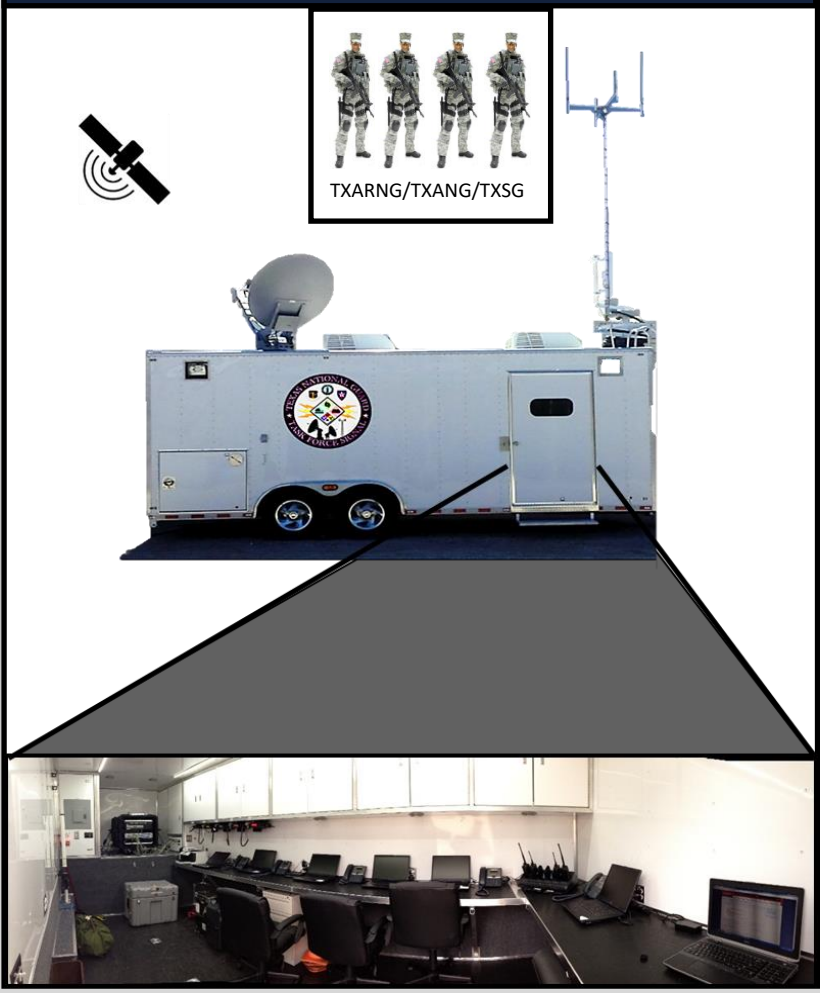
MISSION: To provide TMD and local authorities rapid, reliable and interoperable voice, data, and radio network capabilities in austere environments during emergencies throughout the state.

FEATURES

- **Command Post Comm Support**
- **TMD J6 Provided System**
- 6 SIP Phones
- 6 Laptops
- 1 Printer
- 6 work stations
- Internet/WiFi via satellite and 4G
- On-board 12.5 KW Quiet Diesel Generator
- Climate controlled work stations
- 40ft pneumatic antenna mast with LMR antennas
- VHF/UHF/800 Land Mobile Base Radio
- VHF-Low Base Radio – InterOp with Army SINCGARS radio
- Radio over IP capability bridging/linking (Network Radio Gateways)
- Roof Mounted Satellite Dish
- NGB Commercial Satellite access (8x3 Mbps)
- Locally designed and built by TMD J6 personnel
- Towable Minimum ¾ Ton Pickup with Class III hitch
- Option to augment w/ 1 available Sprint Femtocell (1 mi. radius 3G service).

**Fly Away only has voice & data… no radio*

14 TRAILERS / 1 FLY AWAY*



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Joint Incident Site Communications Capability (JISCC)

MISSION: To support the Homeland Response Force (HRF) by providing reliable and interoperable voice, data, and radio network capabilities in austere environments during emergencies throughout the state FEMA Region VI.

FEATURES

- **Command Post Comm Support**
- **NGB Provided System**
- **Block IIe**: Public Internet Only
- Dedicated 8x3 Mbps SATCOM
- **Block III**: DoD NIPRNET
- Dedicated 3x1 Mbps SATCOM
- 15 VOIP Phones (PSTN & DSN)
- 15 Laptops
- Laser and Multifunction Printers
- VTC Suite
- Interoperable Land Mobile Radio (LMR)
- 15 handheld UHF radios with 110 watt Motorola Quantar Repeater
- SINCGARS radio net integration via PRC-152
- Radio over IP capability and bridging (ACU-1000 or 5000)
- On-Board 12.5 KW Quiet Diesel Generator with 36 gallon fuel tank
- Two on-board Air Conditioners
- 4 work stations
- 40ft pneumatic mast with floodlights, Nycoil, 4 LMR400 cables, and high gain LMR base antennas (all bands) and Discone Antennas
- Rooftop LMR mobile Antennas
- Tow: ¾ Ton Pickup with Class III hitch
- Military towing pintle for towing with LMTV, FMTV (can not be towed with a HMMWV)

3 Trailers

TXARNG/TXANG

LMR & ACU-1000

2 – VHF
2 – UHF
2 – 700/800

XTL5000

x 15

x 15

AirFortress DoD/Public WiFi

PRC 152

x2

XTS 5000 UHF

x15

Inkjet Multifunction Printer

Laser Printer

VTC Suite

Ku SatCom

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Texas Fly Away Kits (TFAKs)

MISSION: To provide TMD and local authorities rapid, reliable and interoperable voice, data, and radio network capabilities in austere environments during emergencies throughout the state for **State Active Duty missions ONLY**.

FEATURES

- **Command Post Comm Support**
- **TMD J6 Provided System**
- Internet via state satellite network
- On-board 12.5 KW Quiet Diesel Generator
- Climate controlled work stations
- 40ft antenna mast with LMR antennas
- VHF/UHF/800 Land Mobile Base Radio
- Radio over IP capability bridging/linking (ACU-1000)
- Dismounted Satellite Dish
- State Commercial Satellite access (512x512 Mbps dedicated and 5X2 Mbps surged)
- Locally designed and built by TMD J6 personnel
- Towable Minimum ¾ Ton Pickup with Class III hitch

**State owned equipment on TXSG Property book*

2 FLY AWAY KITS

TXSG

Dismountable Network Rack

Ku SatCom

LMR & ACU-1000

VHF VHF UHF 800 MHz VHF-Lo

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Radio Network Expansion Trailer (RNET)

MISSION: To extend TMD and local authorities rapid, reliable and interoperable radio network capabilities in austere environments during emergencies throughout the state.

FEATURES

- **Area Radio Net Comm Support**
- **Beyond Line of Sight (BLOS) Capable**
- **J6 Provided System**
- On-board 12.5 KW Quiet Diesel Generator
- Climate controlled work stations
- 40ft pneumatic antenna mast with LMR antennas
- Roof mounted Satellite Dish
- Cisco IPICs for Radio over IP (ROIP)
- Operates on the State Satellite network (512X512 w/ surge capacity to 5X2)
- VHF/UHF/800 Land Mobile Radio
- VHF-Lo Radio – InterOp with SINCGARS
- Locally designed and built by J6 personnel
- Towable Minimum ¾ Ton Pickup with Class III hitch
- Military towing pintle for towing with LMTV, FMTV (can not be towed with a HMMWV)
- Repeater Configuration

Customized for the mission:

2 Trailers

TXARNG/TXANG/TXSG

VHF

VHF

UHF

Motorola XTL5000
(50watts)

800 MHz

VHF-Lo
Tactical FM
InterOp

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What is Radio over IP (RoIP)?

Signaleers Enable Aerial Mission on the Border

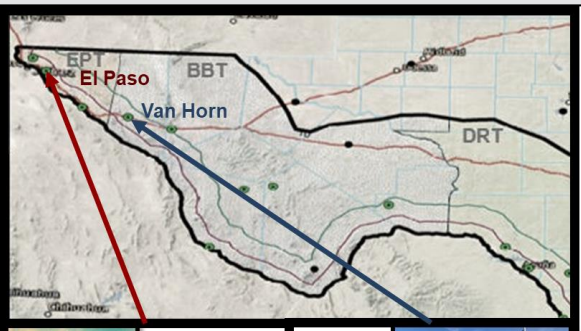
Operation Guardian Support (OGS) Task Force (TF) Aviation communications with Federal Aviation Administration (FAA):

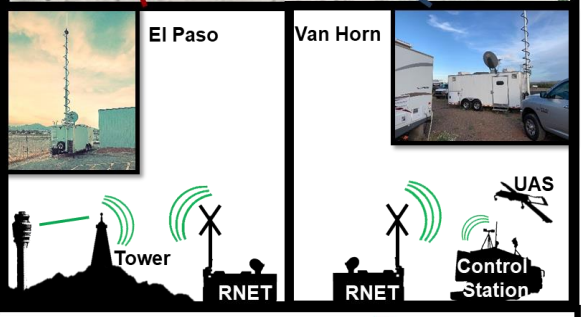
Background:
TF Aviation was tasked to deploy a Shadow Unmanned Aerial System (UAS) in support of OGS. To conduct these missions the UAS Control Station must establish reliable radio communications with Air Traffic Control (ATC) over an FAA mandated frequency. An additional constraint was that the mission dictated the UAS Control Station's position.

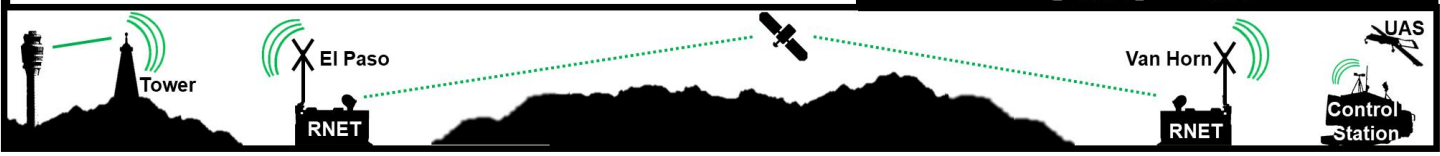
Issues:
The UAS Control Station was positioned out of range of communication towers. The closest tower was 150 miles away. The distance and terrain prevented TF Aviation UAS pilots from conducting missions.

Solution:
TMD J6 - Emergency Communications Branch (Ecomms) deployed 2 Radio Network Expansion Trailers (RNET) to extend the ATC transmission beyond line of sight. 1 RNET with compatible radio systems is located within range of the El Paso tower to acquire the transmission and retransmit over satellite to the other RNET co-located with the UAS Control Station.

Results:
TMD J6 enabled TF Aviation to execute the first ever Shadow UAS CONUS mission.







NOTES: Radio over IP (RoIP) is the ability to receive a radio transmission via line-of-sight then convert that signal into a digital package to be sent over any mode of Internet Protocol (i.e. satellite, cellular broadband, fiber, etc.). Different trailers have differ RoIP solutions but all of our trailers, aside from the 100' Mobile Repeater Tower, have this capability.

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100’
Mobile Repeater Tower

MISSION: To extend TMD and local authorities rapid, reliable and interoperable radio network capabilities in austere environments during emergencies throughout the state.

FEATURES

- **Area Radio Net Comm Support**
- **J6 Provided System**
- **Provides 20-30 miles of Coverage**
- Motorized 100 ft. telescopic tower
- On-board Generator

▪Towable Minimum ¾ Ton Pickup with Class III hitch

1 Trailers

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Trailer Do's and Do Not's

DO NOT's :

• Do not take these to the field without permission from J6 Ecomms. Even with permission you must remain on hard top surfaces only.
•Do not direct the team to use the system for other that the way they were trained.
• Do not kick out the operators or take over their workspace.
• Do not reconfigure the trailer.
• Do not dismount any equipment .
• Do not run the generator without changing the oil every 240 hours of use.
• Do not stream movies.
• Do not change mission without J6 Ecomms approval.

DO:

• Seek J6 Ecomms approval before use to support any mission.
• Assure that your users are conserving bandwidth.
• Coordinate with J6 Ecomms for any problems (512) 782-1020.
• Coordinate with J6 Ecomms for any special requirements.
• Practice good network security practices.
• Utilize these systems for mission support AND urgent personal business or family contact that can't wait until the end of mission.

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DSCA Phone Capability
(Android Smart Phones)

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Satellite Phones

- Iridium Satellite Phones
- Magnetic External Vehical Antenna
- 12 volt car charger
- 120 volt AC charger
- Long Distance Number
- Unlimited Use
- Can call directly to this #
- Voicemail
- PIN: 1111
- To Answer: Raise Ant. Press OK

Iridium 9505

Iridium 9575

- PTT
- GPS Tracking
- SMS
- Short email capability
- SOS Button

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Beneficial Strategic & Tactical Assets (DODIN Access)

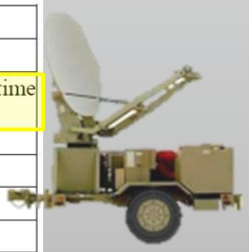
FEATURES

- DODIN-A(NG)
- RCAS Laptops
- Conference Rooms
- BDE HQs
  - SVTC
  - SIPR
- VOIP Phones
- 50 MBps bandwidth

Armories

BDE's

Name	Satellite Transportable Terminal (STT)
Nomenclature	AN/TSC-167D V1 & V2
Capabilities	(V)1 up to 8mbps FDMA and 5 mbps time division multiple access (TDMA) (V)2 up to 5mbps TDMA
Spectrum	Ku-band (Ka upgradeable)
Planning distance	Satellite
Operational mode	Voice, data



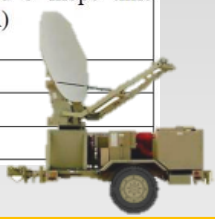
Name	Joint Network Node (JNN)
Nomenclature	AN/TTC-59
NSN	
SIPR/NIPR Data	144/144
SIPR/NIPR VOIP	96/96
NIPR/SIPR 2 Wire (UG 224)	24 subscribers
NIPR/SIPR (VG 248)	48 subscribers
PBX voice	32
Video teleconference (VTC)	IP/serial
Other	n/a

Name	Global Broadcast Services (GBS)
Nomenclature	AN/TSR-8, 9, 10, 11
Capabilities	Can operate both classified and unclassified enclaves, simultaneously allowing both types of data to be received, processed, and viewed, in accordance with cybersecurity requirements, using the included equipment.
Spectrum	X, Ku, Ka-band
Planning distance	Satellite
Operational mode	Voice, Data, Video

BN's

Name	Command Post Node (CPN)
Nomenclature	OM-87
Capabilities	Up to 5 mpbs over STT Up to 16 mbps over HCLOS
SIPR/NIPR Data	44/44
SIPR/NIPR VOIP	44/44
NIPR/SIPR 2 wire (VG 224)	n/a
PBX voice	n/a
VTC	IP only (user provided)
Other	n/a

Name	Satellite Transportable Terminal (STT)
Nomenclature	AN/TSC-167D V1 & V2
Capabilities	(V)1 up to 8mbps FDMA and 5 mbps time division multiple access (TDMA) (V)2 up to 5mbps TDMA
Spectrum	Ku-band (Ka upgradeable)
Planning distance	Satellite
Operational mode	Voice, data



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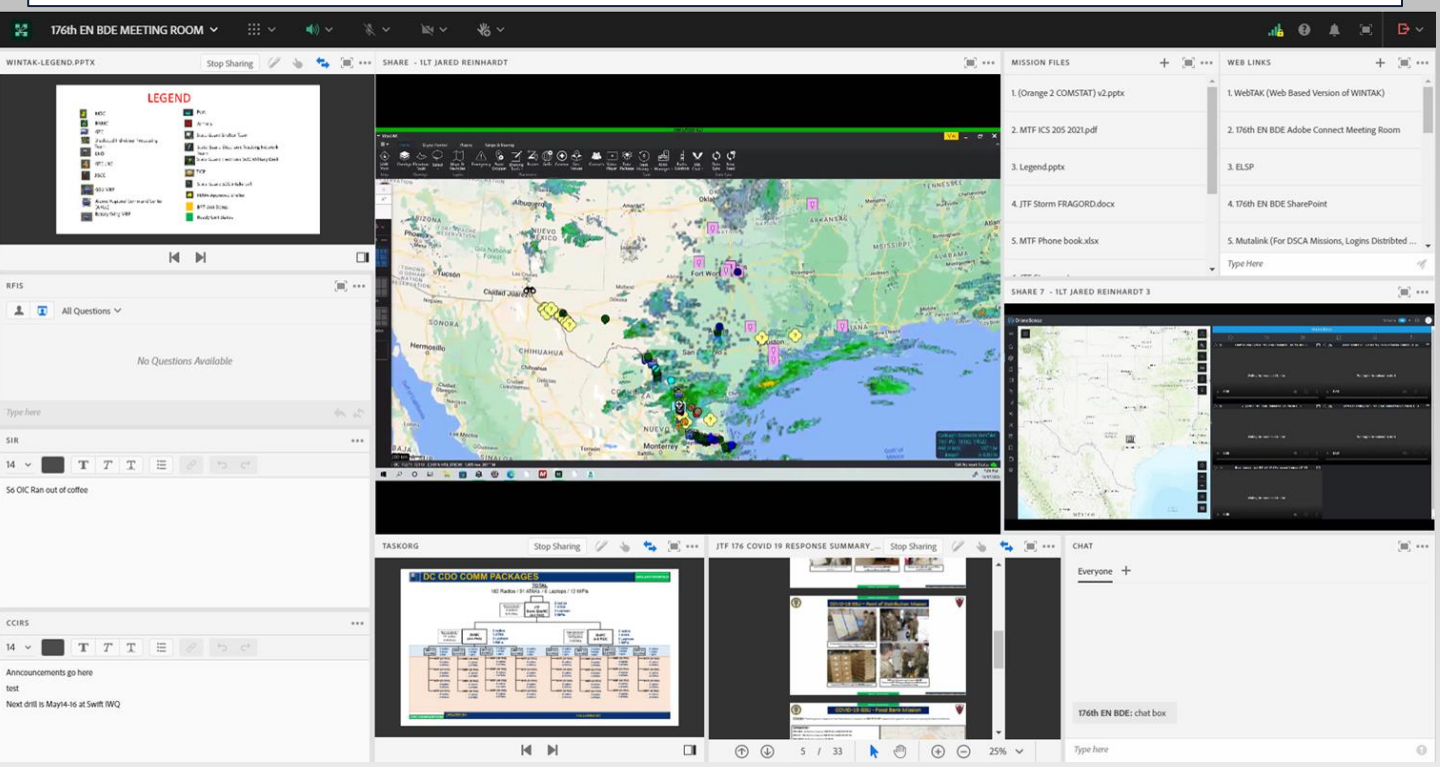
Adobe Connect

The primary purpose of Adobe Connect is to provide Information Awareness capability to the COP. This versatile platform enables the gathering and sharing of multiple information requirements. It aggregates multiple types of information and presents them in a single view (i.e. meeting room). How information is shared on Adobe Connect: Presenting Documents (.ppt, .pdf), Screen Sharing, File Sharing, Chatting, Note Sharing, RFI Tracking, Web Links Sharing, and Video Sharing. There is also the ability to host a conference line that will bridge those using the device's microphone with those dialing in from a phone. Adobe Connect can be access on DoDIN devices (via web browser) and non-DoDIN devices (via web browser or application).

Note: some features are restricted on DoDIN devices



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Android Team Awareness Kit
(ATAK)
Windows Team Awareness Kit
(WinTAK)

(Currently, services are only available on non-DoDIN Devices)

The primary purpose of TAK is to provide Spatial Awareness capability to the COP. It allows leaders to monitor missions by applying geospatial fencing, identify areas of interest by placing indicators on the map for planned and unplanned events, use for SIGACT reports, add various advisories to include inclement weather, natural disasters such as floods and landslides.

ATAK enables tracking and receipt of mission critical information from Headquarter (HQ) elements at all echelons during an incident response. End users may also use it to navigate using GPS and monitor geospatial map data with real time situation awareness. This app is preloaded and configured on a cache of Android Smartphones that are distributed to Mission Ready Packages (MRPs) during emergencies. These phones MUST be powered on and have the ATAK software running in the background at all times immediately following receipt of equipment from the JTF J6 / BDE S6. This ensures its geolocation will auto-populate on the state-wide shared map.

WinTAK increases the level of situational awareness for HQ elements at all echelons. It allows HQs to track personnel and activities in the field across the state. WinTAK also significantly decreases the amount of time to disseminate mission critical information. It broadcasts Significant Activities by using symbology and customized symbols. In short, this application is intended to be a civilian version of the Blue Force Tracker (BFT). This program is preloaded and preconfigured on a cache of Public Imaged Laptops that are then distributed to Mission Ready Packages (MRPs) during emergencies. While these systems are Unclassified, the information obtained by using them should only be shared only with persons who have the need to know.

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ATAK / WinTAK
Inter-Agency Team Colors

Inter-agency Team assignments:

Dark Green: reserved for TMD

Green: reserved for non-TMD Military support

Yellow: reserved for Emergency Management

Dark Blue: reserved for Federal Law Enforcement Agencies

Blue: reserved for State Law Enforcement Agencies

Cyan: reserved for County Law Enforcement Agencies

Teal: reserved for local / municipal Law Enforcement Agencies

Brown: reserved for Forest, Parks and Wildfire Agencies

Magenta: reserved for HAZMAT

Red: reserved for local / municipal Fire Agencies

White: reserved for EMS/EMT Agencies

Orange: reserved for Search and Rescue Agencies

Maroon: left blank on purpose

Purple: left blank on purpose

*For further instructions on how to properly employ ATAK & WinTAK please refer to the ***"ATAK / WinTAK Standard Operating Procedures"***.

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ATAK / WinTAK
Storm Response Symbology

911-Communication-Centers

American-Red-Cross-Facility

Civilian-Staging--Animal-Reunification

Civilian-Staging--Family-Reunification

Hazard--Severe-Weather

Command-Post

Communication-Ops-Generic

Communication-Ops-Repeater

Community-Centers

Hurricane-Warning

Emergency-Shelter

Evacuate-Immediately-Warning

Extreme-Wind-Warning

FEMA-Recovery-Offices

LAW--Helicopter

Flash-Flood-Watch

Flood-Statement

Flood-Warning

Flood-Watch

Search-and-Rescue--Air Search Team (Fixed-Wing)

Hazard--HazMat-Release

Hazard--Hurricane

Hazard--Landslide

Hazard--Other

Structure--No-Damage

Hazard--Wind-Storm

High-Wind-Warning

High-Wind-Watch

Hospitals

Hazard--Tornado

IMT--Incident-Management-Team

IMT--Mobile-Emergency-Operations-Center

Incident-Command-Post

Joint-Operations-Center

Hurricane-Watch

LZ--Helibase

Mass-transit-green-halo

Multi-Agency-Coordination-Center

Occupant--Assisted

LAW--Law-Enforcement-Patrol

Search-and-Rescue--Urban

Shelter-in-Place

State-Emergency-Operation-Centers-EOC

Structure--Damage

Search-and-Rescue--Swiftwater-Flood

Civilian-Staging--Volunteer

Coastal-Flood-Warning

Coastal-Flood-Watch

Hazard--Poor-or-No-Radio-Reception

Targeted-Search

Convention-Centers

Emergency-Medical-Service-EMS-Stations

Emergency-Operations-Cetner

Hurricane-Statement

Structure--Destroyed

Fire-Station

Flash-Flood-Statement

Flash-Flood-Warning

Law-Enforcement-Locations

Food-water-shelter_shelter

Hazard--ACCESS--BLOCKED-No-Access

Hazard--Flood

Occupant--Rescued

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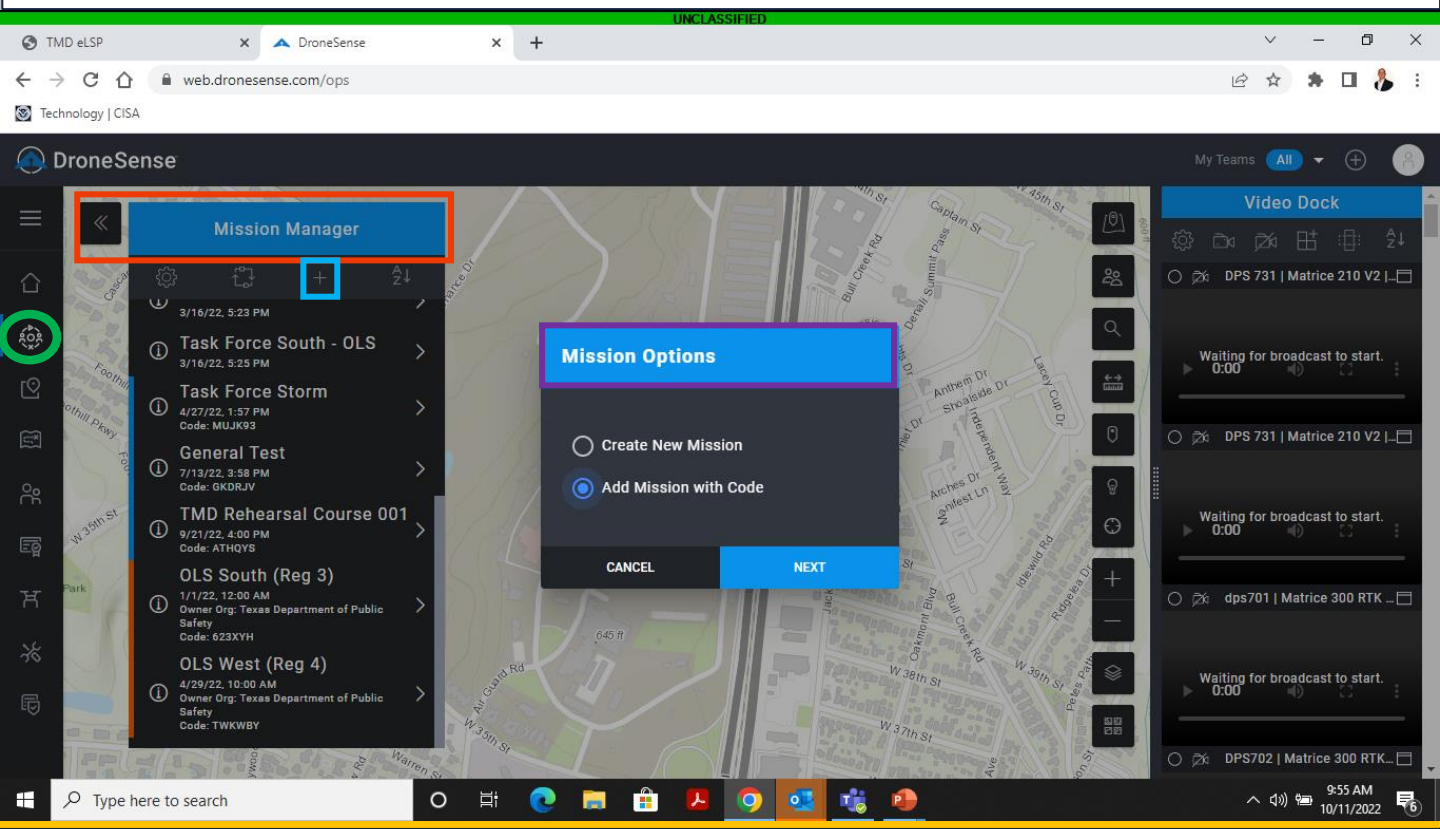
DroneSense

(Currently, services are only available on non-DoDIN devices)

The primary purpose of DroneSense is to provide Visual Awareness capability to the COP. DroneSense is an application that allows TMD to view the small Unmanned Aerial Systems' (sUAS) video feeds of partner agencies utilizing the same platform (i.e. TxDPS and TPWD). This is done through the sharing of a 6-digit alpha-numeric "Mission Code" from the originating agency. Once the code is received navigate to the "**Operations Hub**" then click the "**Mission Manager**" and select the + icon. Once the "**Mission Options**" window appears select "Add Mission with Code" and click next. Enter the 6-digit alpha numeric "Mission Code" and select "Add Mission". This will add the mission to your "Mission Manager" list. To view the video feeds for this mission, scroll down and click the respective mission you would like to view. Select "Drones & Devices". Click on the camera icon To view where the sUAS is located on the map and it's field of view click on the eye icon

The DroneSense smartphone application is primarily used to fly sUAS. However, it can also use the phone as a sensor and share the phones video through the app.



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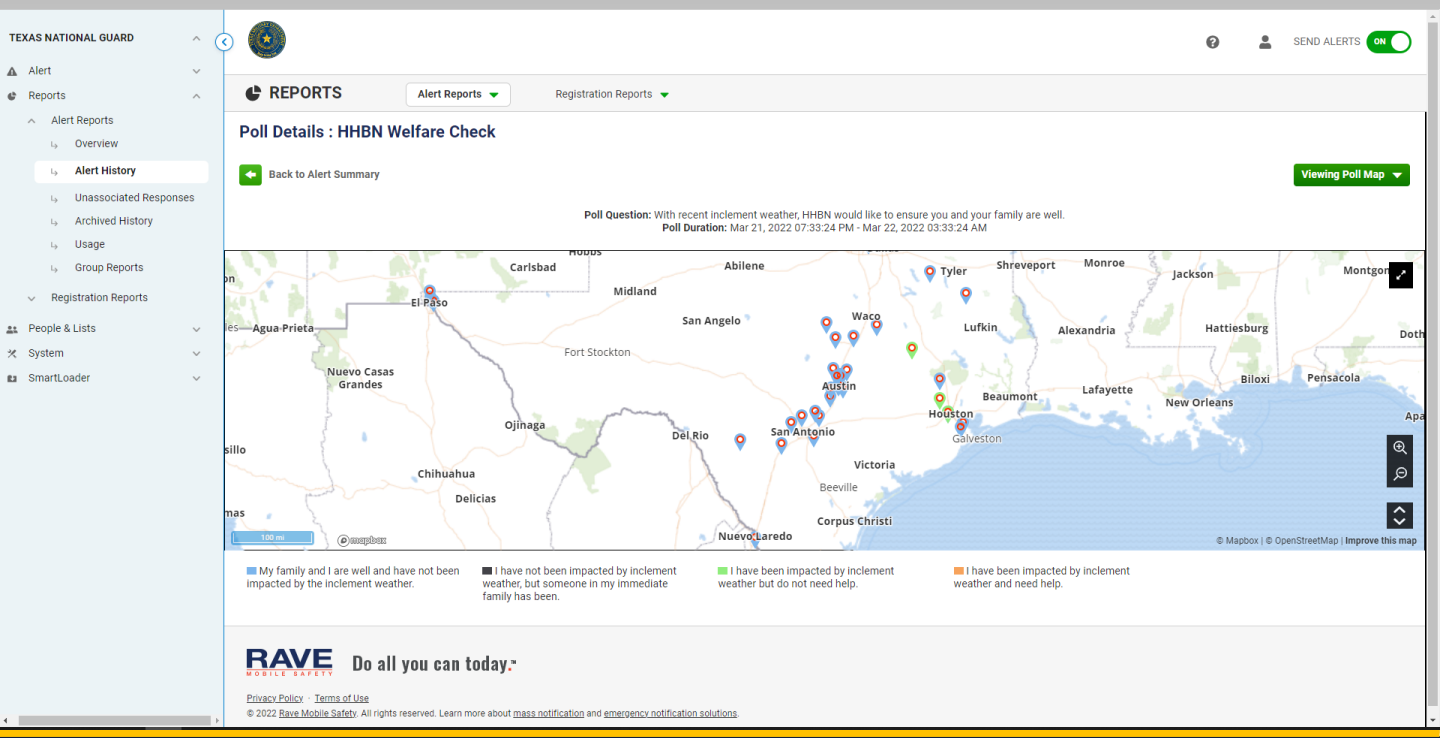
The purpose of RAVE is to provide mass information dissemination capability. This tool automates the leaderships' ability to push out mission critical information to target audiences in a timely manner based on geo-location or defined attributes. Modes of communication include text/SMS messaging, email (plain text and html), phone calls, and agency social media platforms. RAVE also provides the ability to track confirmed delivery of a message. There are two primary types of messages: 1.) Standard Messaging – pushes out information without requiring meaningful feedback; 2.) Polling – desires meaningful feedback from the audience messaged. Data gathered by the Polling feature can be further evaluated by the analytic tools that RAVE provides (Poll Charts, Poll Answers, and Poll Map).



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Communication Status (COMSTAT) Report

ORANGE 2

Submit to ng.tx.txarng.mbx.j6-ops@mail.mil by 1500 daily during incidents (embedded Excel)

	NGSCA NETWORKS								NGSCA COMMS EQUIPMENT																DSCA SYSTEMS																							
	DODIN-A(NG)	Commercial ISP	VPN	COMSATCOM	AT&T Cellular	Verizon Cellular	Sprint Cellular	T-Mobile Cellular	Land Mobile Radios	800 MHz Radios	Samsung Galaxy S7's (Sprint)	Samsung Galaxy S9s (AT&T)	Gov. Galaxy S9s (Verizon)	Flip Phones (Sprint)	MiFi's	RCAS Computers/Laptops	Public Computers/Laptops	TICP	Fly Away Kit	TMCT	MEOC	JSCC	LMR Repeater Trailer	HF	eLSP	PEMS	CAPPs	IPP-S-A	ATAAPS	Adobe Connect	Microsoft Teams	Cisco WebEX	DroneSense	RAVE	ATAK / WinTAK	WebEOC / ETN	eLSP	ArcGIS	Google Earth Pro	Conferencing Bridge	JRMS	Email
The number in the cell indicates how many of each category you have.																																														
Example									20	50	10	24	14	0	2	176	2	0	0	1	0	0	0	0																							
JFHQ-TX																																														
36ID																																														
TXANG																																														
TXSG																																														
BRIGADES																																														
JTF-136																																														
JTF-36																																														
JTF-56																																														
JTF-176																																														
JTF-72																																														

PREVIOUS 24 HOURS (MAJOR ISSUES/CONCERNS)

JFHQ-TX –
36 ID –
TXANG –
TXSG –
JTF-136–
MTCC –
JTF-56 –
JTF-176 –
JTF-72 –

LEGEND

TESTING | NOT UTILIZED | CRITICAL (0-24% MC) | NMC (25-59% MC) | ISSUES (60-89% MC) | OPERATIONAL (90-100% MC)

- Items marked NOT UTILIZED includes no confirmation / response that the solution is being utilized
- Items marked TESTING includes Training Audiences have initiated testing the capability or equipment. Items marked OPERATIONAL includes a fully trained audience equipment or capability is operational with no issues
- Items marked ISSUES includes known technical or equipment issues that are currently being worked to get resolved
- Items marked NMC includes equipment or capabilities that are non-mission capable.
- Items marked CRITICAL includes equipment not operational and if not repaired/replaced the mission will fail.

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Points of Contact

For any questions feel free to call:

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