Interoperability Division Report
UCA Annual Stakeholder Meeting
November 17, 2020

UCA Interoperability Division

Vision:

A fiscally sustainable, interoperable, statewide voice and data network that enables first responders in Utah to effectively communicate across common or disparate systems during normal activities or during any type of event or disaster, as public safety personnel discharge their duties to protect the lives and property of Utah's residents and visitors.

Mission:

To promote effective interoperable communications, the Utah Communications Authority Interoperability Division will partner with, state, local, federal and tribal public safety entities to develop communications resources, policies, procedures, training opportunities, and exercises for Utah's first responders.

Radio Programming

➢ Meeting programming needs during the pandemic

➢ All programming requests, 800MHz or VHF, will be coordinated through the programming manager, James Baker

➢ James Baker and Daniel Dialogue are the programming authors, all template changes will be performed only by them

➢ Most programming of radios will be performed by Jared Lamoreaux. Area techs may be asked to program when only one or two radios need to be programmed

Planned Activities for 2020

- FirstNet Data Sharing Workshop – Mar 2020
- UCA End User Radio Training – Held Virtually
- Full Scale Earthquake Exercise Planning for 2021 Full Scale Exercise
- TA for COML Training and Certification – May 2020
- TA for the rewrite of the Utah Field Operations Guide
- 5G Workshop for State, Local, Territorial, and Tribal Governments
- Bi-Annual RECCWG Meetings
- Monthly State Emergency Response Team Training Meetings

2020 Radio Training

UCA held a virtual radio training seminar October 14th this year. No other trainings are scheduled for this year however, if requested, we will schedule other virtual trainings as needed.

Index	Description	Conventional	Trunking
Buttons and Controls			
1		Power/Volume	Power/Volume
2	**Two Position Concentric**		
	Position A	Blank	Blank
	Position B	Scan	Scan
3	**Three Position Toggle**		
	Position A	Zone Select	Zone Select
	Position B	Zone Select	Zone Select
	Position C	Zone Select	Zone Select
4	Rotary Control	Channel/Sub Select	Channel/Sub Select
5	Top Button	Unprogrammed	Emergency
6	Side Top Button	Light/Flip	Light/Flip
7	Side Middle Button	Monitor	Private Call
8	Side Bottom Button	TalkAround/ Direct	Site Displ/Srch
9	Data Button	Blank	Blank
10	**Keypad Buttons**		
	Zero (0)	MS01	MS01
	One (1)	MS02	MS02
	Two (2)	MS03	MS03
	Three (3)	MS04	MS04
	Four (4)	MS05	MS05
	Five (5)	MS06	MS06
	Six (6)	MS07	MS07
	Seven (7)	MS08	MS08
	Eight (8)	MS09	MS09
	Nine (9)	MS10	MS10
	Star (*)	Keypad Digit	Keypad Digit
	Pound/Hash (#)	Keypad Digit	Keypad Digit

Data Sharing Workshop

On March 12th, 2020 UCA sponsored a Data Sharing Workshop designed to help participant agencies determine their data sharing capabilities and gaps.

Technology Interoperability Continuum: Data Elements

Two-Way Standards-Based Sharing

One-Way Standards-Based Sharing

Custom-Interfaced Applications

Common Applications

Swap Files

Limited Leadership, Planning, and Collaboration Among Areas with Minimal Investment in the Sustainability of Systems and Documentation

High Degree of Leadership, Planning, and Collaboration Among Areas with Commitment to and Investment in the Sustainability of Systems and Documentation

2020 Utah Emergency Responses

COVID-19

5.7 Earthquake

Social Injustice Protests

Hurricane Force Windstorm

I-15 NB @ 8650 S/MP 352.8, BE

Exercise Conduct Timeframes

The 2021 Great Salt Shake initially scheduled to occur in May 2021
has been cancelled due to the unprecedented response to COVID.

FEMA Region VIII will be hosting an exercise series to familiarize responders with the Wasatch Range Catastrophic Earthquake Response Plan and validate key areas of the plan.
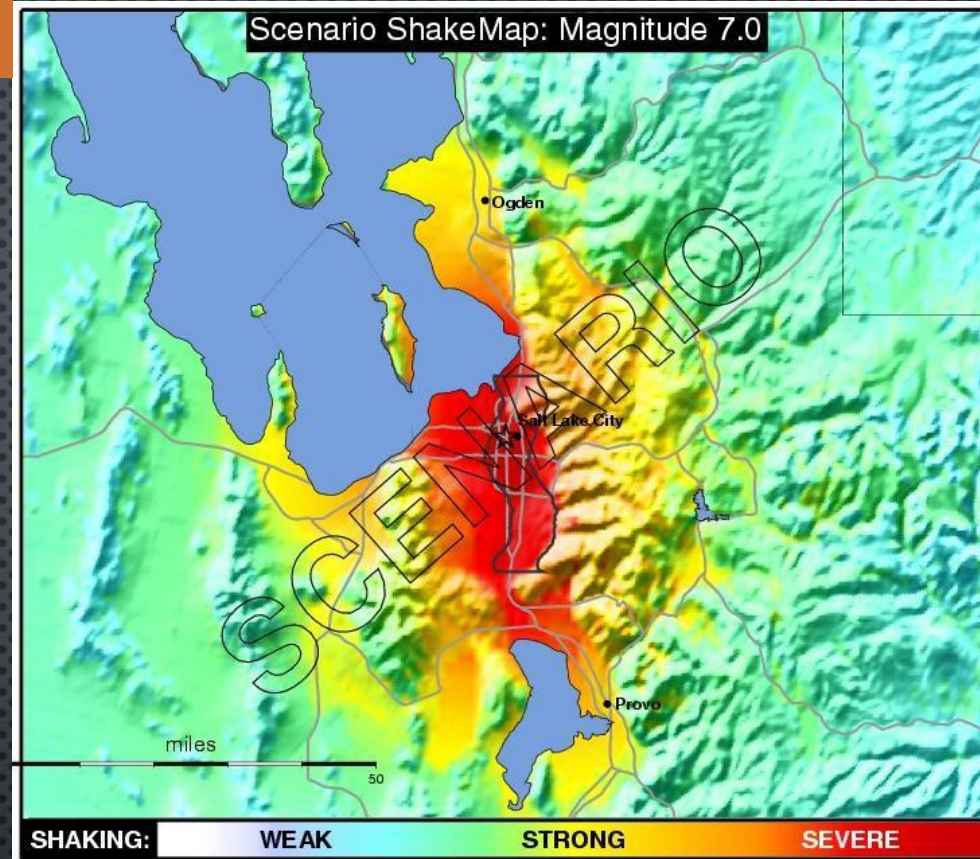***Tentative*2021 Exercise Schedule:**

1. Rehearsal of Concept (Seminar): August 10-11, 2021
2. ESF-15 - External Affairs - (Tabletop Exercise [TTX]): August 25, 2021
3. Transportation Tabletop Exercise [TTX]): September 28-29, 2021
4. Continuum of Care (Tabletop Exercise [TTX]): October 19-20, 2021
5. Command and Control Exercise (Functional Exercise and Communications Drill): Nov 8-10,2021

7.0 Earthquake in the Salt Lake Segment of the Wasatch Fault in December at 2:00 pm

➢ Affects 80% of the Population of Utah
➢ 3,123 initial fatalities
➢ Injured:
  • 30,508 with injuries
  • 11,207 requiring hospitalization
➢ Displaced population:
  • 88,912 households displaced (~250K people)
  • 54,798 people seek temporary shelter in public shelters
  • 60,663 buildings damaged beyond repair
➢ 331 bridges heavily damaged
➢ 349K households without potable water on day 1; 339K on day 90
➢ 248K households without power on day 1; 15K on day 30
➢ 30 million tons of debris generated
➢ Economic impact $52.32B

Scenario ShakeMap: Magnitude 7.0

| SHAKING: | WEAK | STRONG | SEVERE |

M 7.0, Salt Lake City Segment Scenario

Origin Time: Mon 2004-05-24 16:51:19 UTC
Location: 40.76°N 111.83°W Depth: 15 km

PAGER Version 1

Created: 5 years, 5 months after earthquake

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		-_*	-_*	13k*	130k*	416k	336k	163k	1,109k	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.
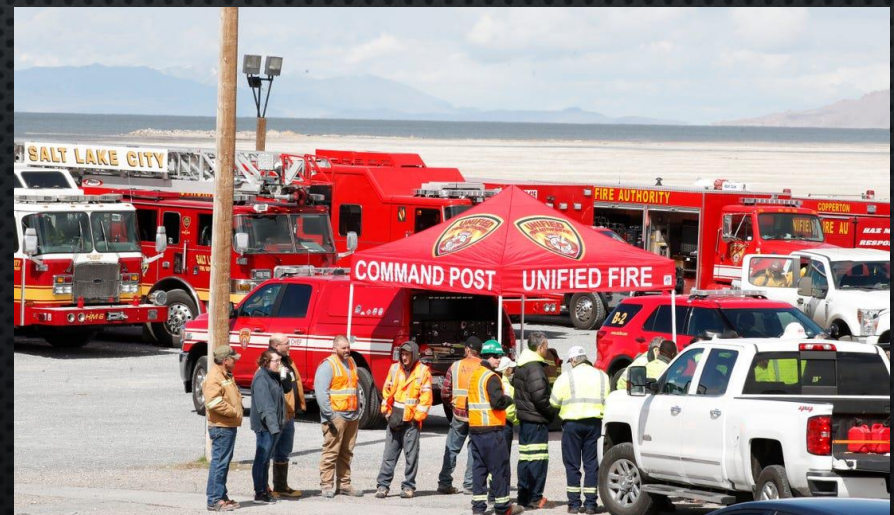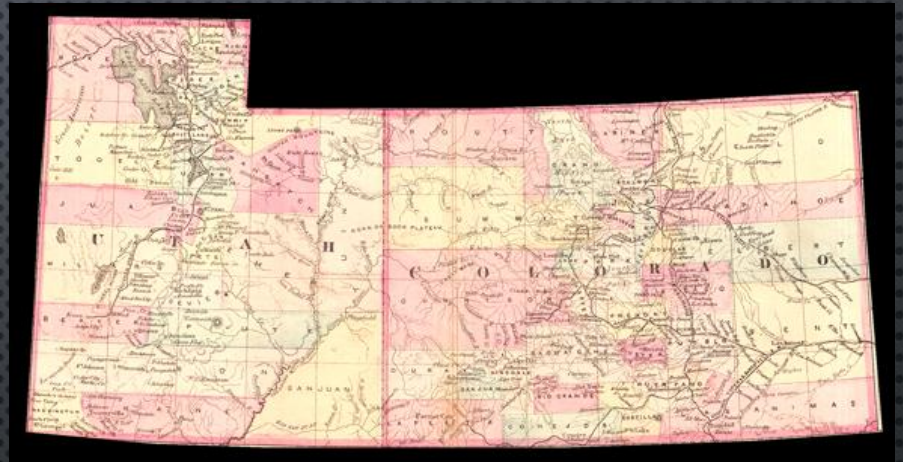
2020 Technical Assistance Requests

Communications Unit Leader Training (COML) - Canceled

Utah Field Operations Guide

Interoperability Exercise

Cross Border Interoperability

Currently working with the state of Colorado to install resources
in our respective communications sites near the Utah – Colorado borders that will allow for cross border interoperability during events that cross state lines or require mutual aid between Utah and Colorado
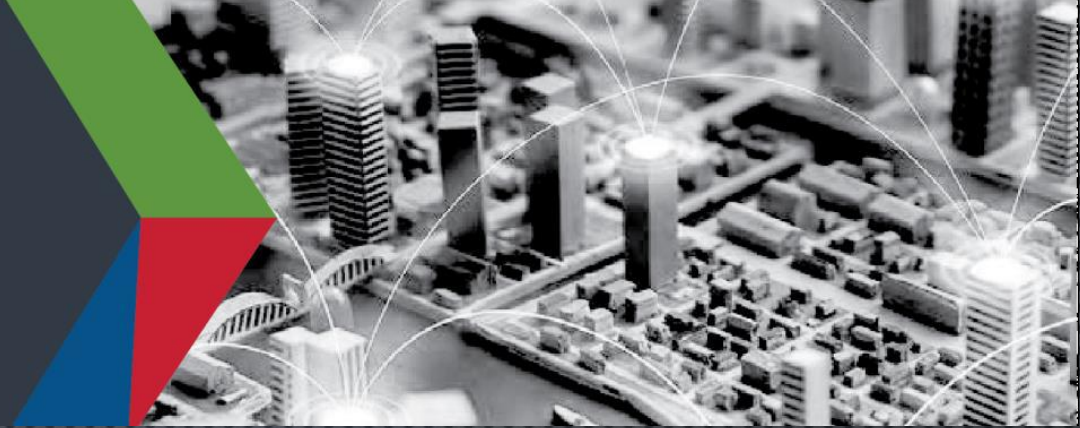
5G Disinformation Campaign

Violent extremists have encouraged attacks targeting 5G infrastructure in the United States
During the COVID-19 pandemic, claiming that 5G technology weakens the human immune systems
resulting in the accelerated spread of the virus. DHS open source reporting. Calls for attacks have
included tactical guidance for disabling radio towers near pandemic-stricken cities and come from a variety of
violent actors, including racially or ethnically motivated violent extremists (RMVEs) and at least one individual who
posted a foreign terrorist organization-inspired image.

Since December 2019, unidentified actors conducted at least five arson incidents targeting cell
towers in Memphis, Tennessee that resulted in more than $100,000 in damages, according to DHS field
intelligence reporting. Additionally, 14 cell towers in western Tennessee between February and April were
purposely turned off by way of disabling their electrical breakers, according to separate DHS field intelligence
reporting. In April, arsonists set fire to a major cell tower in Portland, Oregon, damaging electrical components at
the base of the structure, according to Oregon state fusion center analysis.

Additionally, a spokesman for the Communication Workers Union in the United Kingdom reported that
telecommunications workers have been threatened with physical violence in light of conspiracy theories linking
5G networks to the spread of COVID-19.

CISA 5G WORKSHOP
BACKGROUND
The fifth generation (5G) of wireless technology represents a complete transformation of telecommunications networks, introducing a wealth of benefits. However, these benefits also present new risks to national security and other domestic interests. To assist state, local, tribal, and territorial government officials in addressing these challenges, the Cybersecurity and Infrastructure Security Agency (CISA) is coordinating a series of virtual, interactive 5G Workshops. By using pre-workshop surveys to tailor content to officials' concerns surrounding 5G deployment, these interactive workshops are designed to provide participants with the most useful general knowledge, skills, and federal resources for addressing the cybersecurity vulnerabilities and other best practices specific to their own 5G adoption.

PURPOSE
To assist state, local, tribal, and territorial government officials with the deployment of secure and resilient 5G infrastructure.

SCOPE
CISA will coordinate and lead a series of interactive workshops that educate stakeholders on 5G basics, the 5G threat environment, deployment considerations, and available federal resources.
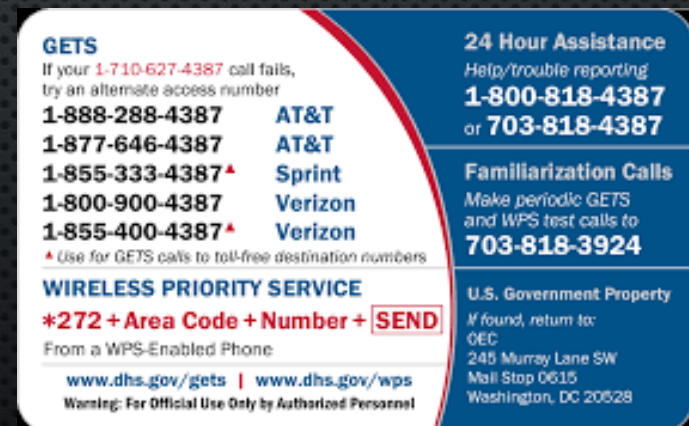
Government Emergency Telecommunications Service Wireless Priority Service (GETS/WPS)

GETS: The Government Emergency Telecommunications Service (GETS) supports national leadership; federal, state, local, tribal and territorial governments; first responders; and other authorized national security and emergency preparedness (NS/EP) users. It is intended to be used in an emergency or crisis situation when the landline network is congested and the probability of completing a normal call is reduced.

WPS: WPS supports national leadership; federal, state, local, tribal and territorial governments; and other authorized NS/EP users. It is intended to be used in an emergency or crisis situation when the wireless network is congested and the probability of completing a normal call is reduced.

Questions

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