



UTAH COMMUNICATIONS AUTHORITY

KEEPING PUBLIC SAFETY CONNECTED

2022 UCA Interoperability Division Update – Michael Veenendaal



Interoperability Division

“Proper training and regular exercises are critical to the implementation and maintenance of a successful interoperability solution. Proper training and exercises are dependent on the use of operating procedures and agreed upon technologies. In absence of these agreements, training is limited to radio use within the department and multi-jurisdictional exercises are not feasible.”





Garrett Millward
Programming Manager



Michael Veenendaal
Interoperability Director



David Fisher
Radio Author



Jared Lamoreaux
Programmer

Our Team



Interoperability Division

Mission

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

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



2022 Division Highlights

- Michael Veenendaal hired as Division Director
- Garrett Millward Promoted to Programming Manager
- David Fisher hired as new agency Author
- Jared Lamoreaux traveled the state Thousands of Miles
Programing End user Equipment
- PSAP Interoperability Annual Training conducted in June of 2022
- Quarterly Training Online
- In person Trainings
 - Sevier
 - Grand Counties
 - Bureau of Reclamation

Sevier County

- Sevier County moved from VHF to 800mhz.
- Adding 210+ Motorola radios
- Sevier county Training
- Additional temporary site

Price City

Migrated from VHF to the TRS.

- UCA has a ACU2000 patched to the Price Law TG.
- Carbon county is concluding the build out of the Kenwood NXDNsystem.
- County users are utilizing their proprietary NXDN with Price City users on the UCA TRS

Grand County Sheriff

- Sheriffs department moved from VHF to 800mhz.
- Adding Kenwood radios for All deputies
- End User and Train the trainer course provided



2023 Goals and Objectives

- Continued Migration and Programming of end user radios on the Legacy System
- Completion and Introduction of the New Fleet Map
- End user training on the new fleet map
- Programing and Migration of all users to the New L3Harris Radio System
- Updated (State Communications Interoperability Plan (SCIP) and Division Strategic Plan
- Updated Statewide FOG
- Enhanced PSAP and end User Annual Interoperability Training and exercises
- Beginning the process of Updating the State COMM trainings and certifications



INTEROPERABILITY

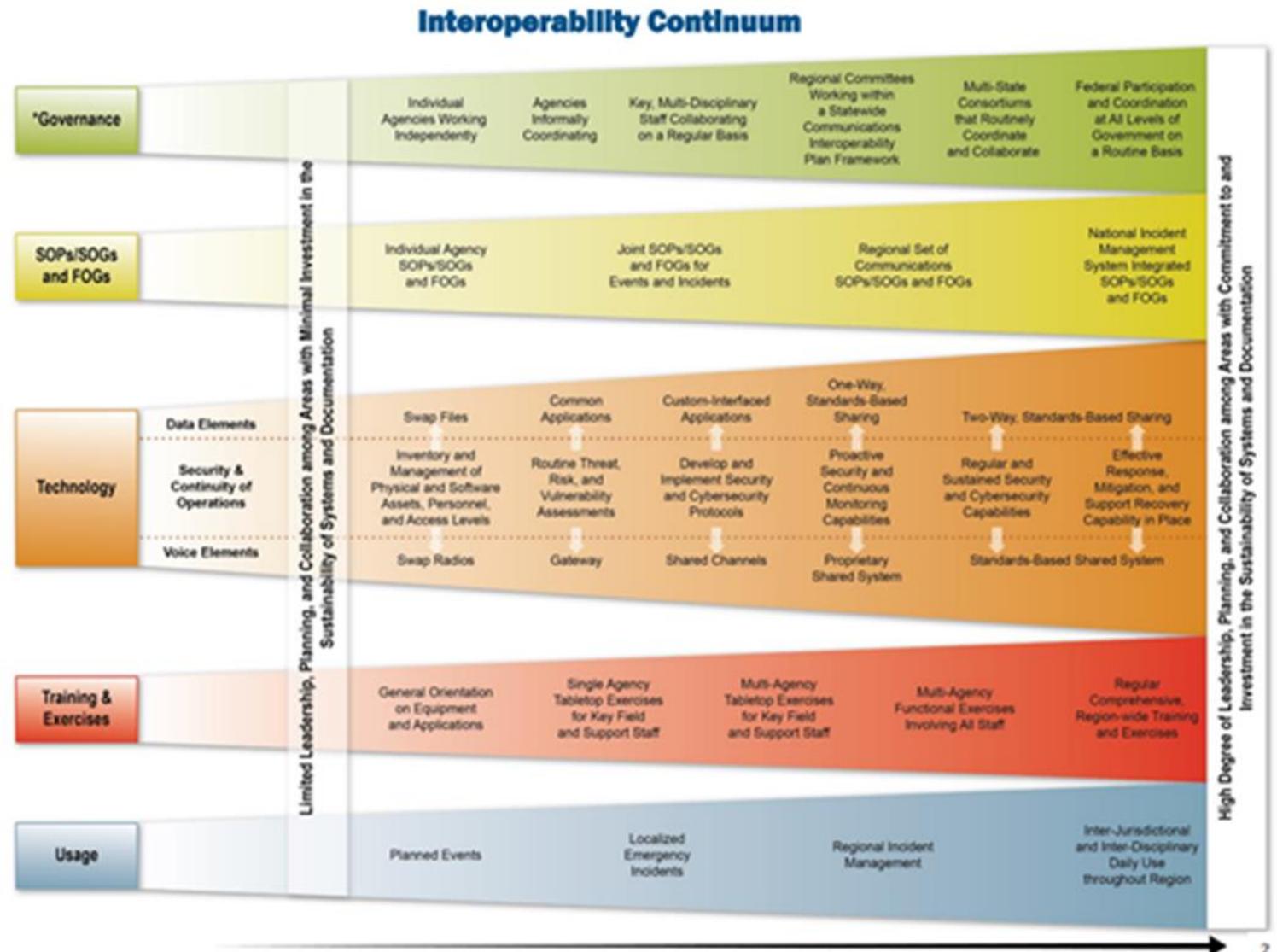
- Utah Interoperability works to enhance and promote interoperable emergency communications at the, State, Local, Federal and Tribal and levels.
- Collaboration is the key to successful interoperable communications.
- Interagency collaboration is as important to achieving interoperability as is the infrastructure and technology that is being used to communicate.
- The Interoperability Division staff are ready and willing to help agencies in within Utah, and its bordering states, come together and work through their interoperability challenges or concerns.

Please feel free to contact the Interoperability Division with any requests for assistance with communications interoperability or radio programming needs.



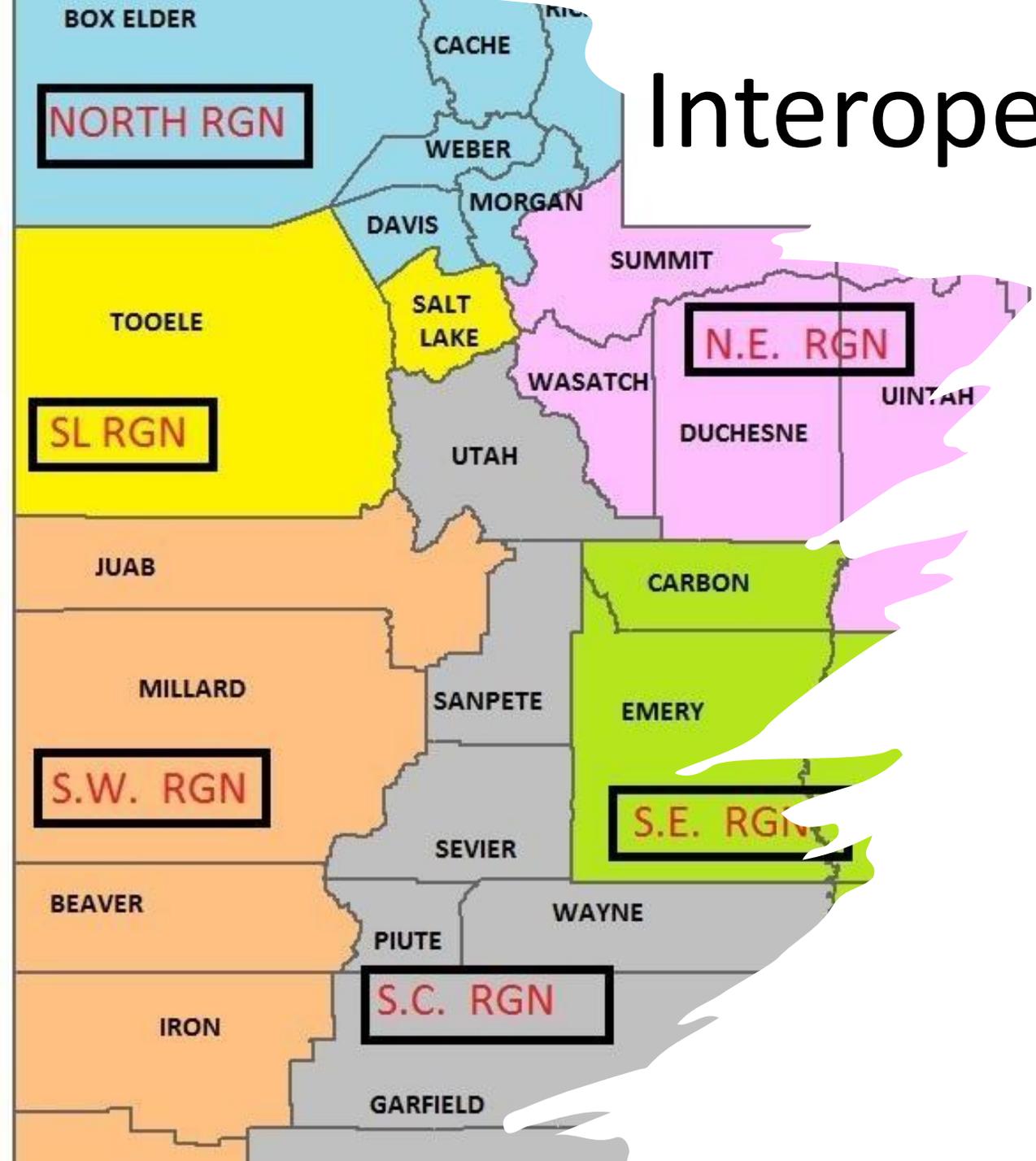
FIVE KEYS TO INTEROPERABILITY

“The ability of public safety agencies to talk across disciplines and jurisdictions via radio communications systems, exchanging voice and/or data with one another on demand, in real time, when needed, and as authorized”



*Brochure text updated to include information on Lifecycle Funding within the Governance Section

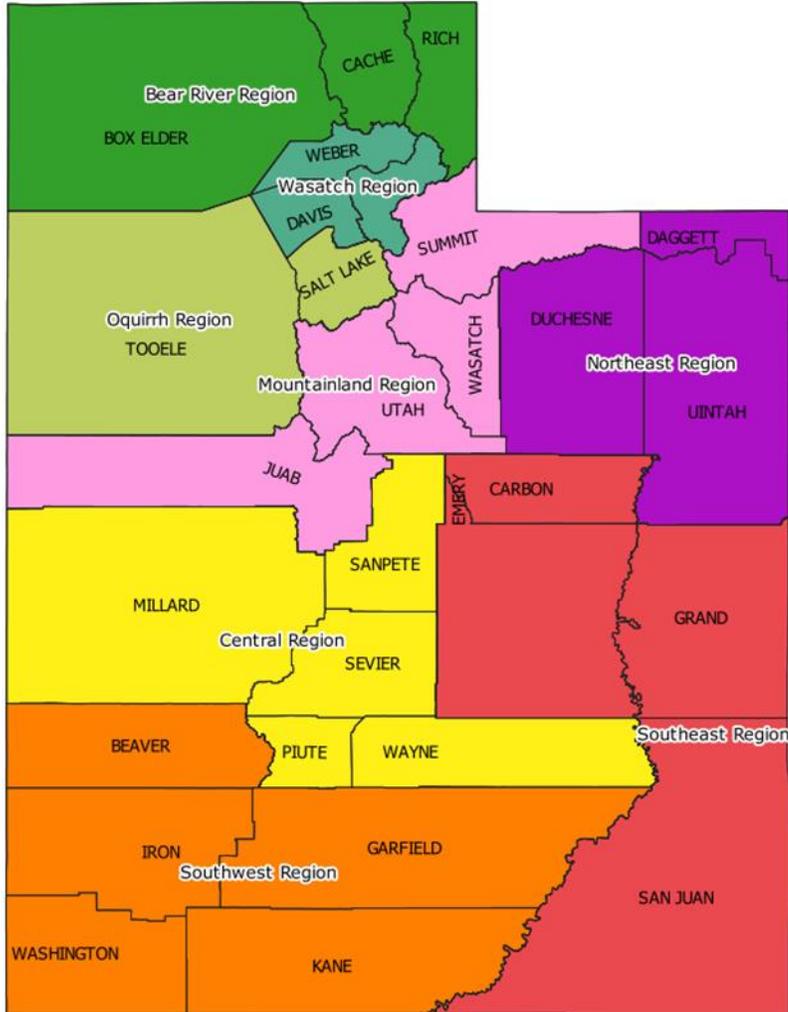
Interoperability in Utah Today



- Six regions- North, Northeast, Salt Lake, Southcentral, Southeast, and Southwest.
- Each region has a designated group of interop talkgroups known as “Ops”.
- For statewide access, the system currently has 16 Event talkgroups.



Interoperability in Utah Tomorrow



- Eight regions Call Talkgroups- Bear River, Wasatch, Oquirrh, Mountainland, Northeast, Central, Southeast, Southwest.
- Each PSAP will have a designated group of interop talkgroups known as “Ops”.
- Each Region will have regional interop TAC channels.
- Regional Hospital Call Talkgroups

Current Fleetmap

- The present fleetmap is a descendent of the legacy conventional VHF repeater model. A single agency per repeater, where your radio has all of your neighbor's single repeaters programmed in your radio.
 - Each user within the community or region they service have access to all surrounding agencies talkgroups.
 - This presents a self dispatch model, where the user can monitor communications traffic without the receiving dispatch center being aware.
- It has allowed for the Dragging of traffic Busying out PSAPS and Users across the system.

ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
RIVERTN PD	UPD OQURH	OPS 1	EVENT 1	8CALL90
RIVERTN TAC	UPD WASTH	OPS 2	EVENT 2	8TAC91
RIVERTN C2C	UPD SPL 5	OPS 3	EVENT 3	8TAC92
SERVICE	UPD MIDVL	OPS 4	EVENT 4	8TAC93
HERRIMAN PD	UPD TAC 1	OPS 5	EVENT 5	8TAC94
VECC C2C	SLCPD PN	OPS 6	EVENT 6	ST RPT 1
DRAPER PD	SLCPD LTY	OPS 7	EVENT 7	ST RPT 2
SJPD	UHP NO	OPS 8	EVENT 8	ST RPT 3
UC LAW 1	UHP SO	OPS 9	EVENT 9	ST RPT 4
W J P D 1	FIRE 1	OPS 10	EVENT 10	ST RPT 5
W J P D 2	FIRE 4	NO RGN	EVENT 11	ST T/A 1
SANDY PD	HERRIMN C2C	N E RGN	EVENT 12	ST T/A 2
WVC PD D1	SSL PD	S W RGN	EVENT 13	ST T/A 3
WVC PD D2	MURRAY PD	S C RGN	EVENT 14	ST T/A 4
COTTONWD	LZ-1	S E RGN	EVENT 15	ST T/A 5
SL RGN	LZ-2	SL RGN	EVENT 16	8CALL90D



New System New Fleet Map



Local Talkgroups		INTEROP TALKGROUS											
		County	Regional						Statewide		Conventional		Regional
Zone 1	Zone 2	Zone 3	Zone 4	Current Associated Talkgroup	Zone 5	Current Associated Talkgroup	Zone 6	Current Associated Talkgroup	Zone 7	Current Associated Talkgroup	Zone 8	Zone 9	Zone 10
SL LAW 1	SL LAW 16	SL OPS 1	TAC 1 BR	Event 1	TAC 16 MT	Event 4	TAC 31 SE	Event 9	OQ CALL	SL Regional	ST RPT 1	7TAC51	HOSP CALL
SL LAW 2	SL LAW 17	SL OPS 2	TAC 2 BR	Event 1	TAC 17 MT	Event5	TAC 32 SE	Event 9	WA CALL	North Regional	ST RPT 2	7TAC52	BR HOSP 1
SL LAW 3	SL LAW 18	SL OPS 3	TAC 3 BR	Event 1	TAC 18 MT	Event 5	TAC 33 SE	Event 9	BR CALL	North Regional	ST RPT 3	7TAC53	BR HOSP 2
SL LAW 4	SL LAW 19	SL OPS 4	TAC 4 BR	Event 1	TAC 19 MT	Event 6	TAC 34 SE	Event 9	MT CALL	South Central Regional	ST RPT 4	7TAC54	WA HOSP 1
SL LAW 5	SL LAW 20	SL OPS 5	TAC 5 BR	Event 1	TAC 20 MT	Event 6	TAC 35 SE	Event 9	CN CALL	South West Regional	ST RPT 5	7TAC55	WA HOSP 2
SL LAW 6		SL OPS 6	TAC 6 WA	Event 2	TAC 21 CN	Event 11	TAC 36 SW	Event 8	SE CALL	South East Regional	ST T/A 1	7TAC56	OQ HOSP 1
SL LAW 7		SL OPS 7	TAC 7 WA	Event 2	TAC 22 CN	Event 11	TAC 37 SW	Event 8	SW CALL	South West Regional	ST T/A 2	7FIRE63	OQ HOSP 2
SL LAW 8		SL OPS 8	TAC 8 WA	Event 2	TAC 23 CN	Event 11	TAC 38 SW	Event 8	NE CALL	North East Regional	ST T/A 3	7FIRE83	MT HOSP 1
SL LAW 9		TAC 6 OQ	TAC 9 WA	Event 2	TAC 24 CN	Event 11	TAC 39 SW	Event 8			ST T/A 4	7MED65	MT HOSP 2
SL LAW 10		TAC 7 OQ	TAC 10 WA	Event 2	TAC 25 CN	Event 11	TAC 40 SW	Event 8			ST T/A 5	7MED86	CN HOSP 1
SL LAW 11		TAC 8 OQ	TAC 11 OQ	Event 3	TAC 26 NE	Event 12					7CALL50	8TAC91	CN HOSP 2
SL LAW 12		TAC 9 OQ	TAC 12 OQ	Event 10	TAC 27 NE	Event 12					8CALL90	8TAC92	SW HOSP 1
SL LAW 13		TAC 10 OQ	TAC 13 OQ	Event 15	TAC 28 NE	Event 12						8TAC93	SW HOSP 2
SL LAW 14			TAC 14 OQ	Event 16	TAC 29 NE	Event 12			LZ 1	LZ 1		8TAC94	NE HOSP 1
SL LAW 15			TAC 15 OQ	Event 7	TAC 30 NE	Event 12			LZ 2	LZ 2			NE HOSP 2
OQ CALL	OQ CALL	OQ CALL	OQ CALL	SL Regional	OQ CALL	SI Regional	OQ CALL	SL Regional	OQ CALL	SL Regional	OQ CALL	OQ CALL	OQ CALL

The new fleetmap is a model of better agency interoperability, providing each agency and user the ability to interoperate within out outside of your normal daily operations. It provides:

- More interagency talkgroups
- A unified interoperability approach across the system
- The ability for the individual PSAP to manage communication between ALL responding units within the system.



PROGRAMMING

Subscriber Programming is broken down into three levels statewide:

- The first level is the day to day needs of normal operations of the user within the community served.
- The second level is regional interoperability, territorially defined with VHF and regional interoperability paths to communicate.
- The third level allows for wide area statewide interoperability talk paths to support local, regional, and statewide resources to communicate during critical events.
- The Utah Communications Authority Programming team's mission is to accurately maintain the trunked radio system talkgroups, access, fleetmap, radio I.D.'s, program subscribers in a prompt timeframe while monitoring the daily health of the trunked radio system. All of this is conducted with pride by the committed Utah Communications authority Programming team.



- <https://www.uca911.org/Radio-ProgrammingDivision>
- Send a request to Programming@uca911.org with the Serial number, flashport code (if applicable), and model number.
- ***** agency programming in house*****
- A \$10.00 fee is assessed per subscriber to be programmed.
- The programming manager will schedule the date and time for the programming staff to respond.

Training

Each Quarter UCA conducts several trainings.

Within each quarter the Programming Manager hosts a subscriber training. The intent is to educate the users of the basic functionality of subscribers regardless of manufacture.

The Interoperability Division Director hosts an interoperability training. The training is focused on how to access the state of Utah's interoperable talk groups both regionally and statewide. This training has several exercises allowing the attendee to interact.

Training dates and times can be found on our UCA Website under Interoperability Training or

<https://www.uca911.org/file/ba897c36-1a3b-4927-af28-bfb538a05306>

Annual Interoperability training and Exercise for PSAPS

Our Team will also perform Training on site and in person by request by contacting the Division Director



Interoperability Division

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