

When communication is critical.....



Can we talk?

What's the plan?

- Do you have a Communications Plan?
- When was the last time it was updated?
- Have you added new technology?
- Does everyone involved know the plan?
- Have the stakeholders changed?

The worst time to find out the answers to these questions is during a large scale incident.

What is interoperability?

How do you define interoperability?

SAFECOM defines
Interoperability as:
The ability of Public Safety
Responders to share
information via voice and
data communications
systems on demand, in real
time, when needed and as
authorized.



What interoperability is not...

Interoperability does not require allowing all radio users to speak to all other radio users at all times, or allowing anyone you may need to communicate with to utilize a radio. This can cause confusion and tie up radio channels.

Interoperability requires careful planning and cooperation so that all forms of communication are utilized appropriately and effectively.



Why stress interoperability?

The 9/11 terrorist attacks highlighted a nationwide communication problem among first responder agencies.

In the years following, there have been many advances in first responder communication. The federal government has added multiple agencies and plans to assist States, insuring that communication is a top priority everywhere.

Interoperability is now factored into decision making for grant funding. Grant requests to fund communication equipment are evaluated based on their level of interoperability.



Who do you need to communicate with?

Given this incident: a multi-vehicle accident, involving two semis, one carrying hazardous materials with multiple injuries and lengthy road closure due to HazMat spill.

Who do you need to communicate with depending on your role in public safety?



How do you communicate?

Think about all the forms of communication that you use on a daily basis.

Do you use too many?
Do you use too few?

Would it be easier to consolidate some forms of communication?

What do you do if you lose a form of communications?



MASS NOTIFICATION



Inventory List – Radio Communications

What Radio Systems are in use in your area?

Who Uses each system?

800 MHz

VHF

UHF

Proprietary

Amateur



Inventory List – Radio Back Up Plan

In the event of a communication disruption of your primary public safety radio system what is your back up communication plan?

- VHF system
- UHF system
- Other (?)

Do all of the agencies in your area know the back up plan?

If you're on an 800 MHz trunked system, do you have a site trunking plan?



Inventory List – Computer Systems

CAD

RMS

Mobile

Jail

PSAP-CPE

Mass Notification

Alerting Software

Wireless/Broadband

Video Systems

Who do you need to communicate with?

Think beyond the local HazMat/Accident and into a large scale, multi-jurisdictional disaster:

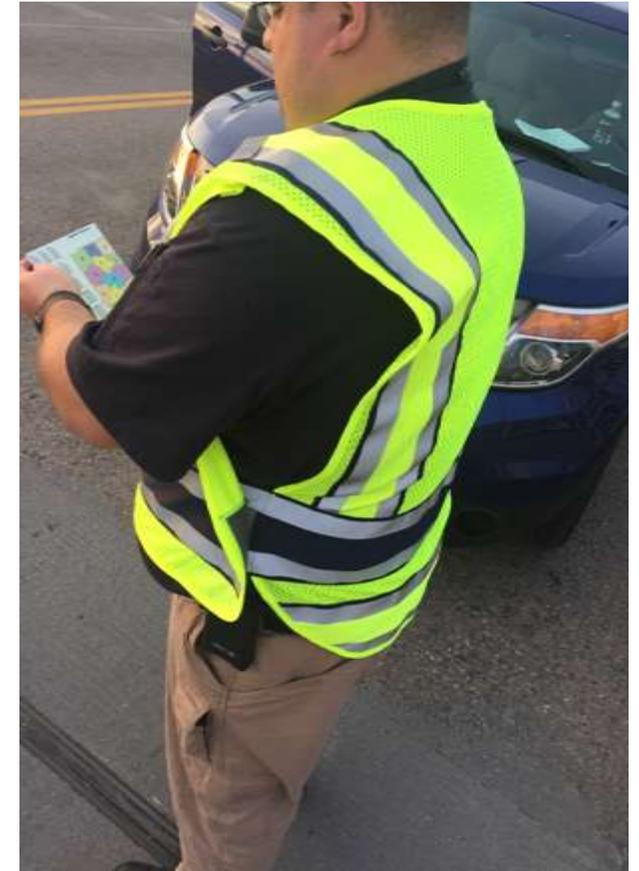
- Tornadoes and Severe Storms.
- Floods.
- Wildfires.
- Earthquakes.

What would change in your communication needs? How will you communicate?



Nationwide Interoperability Channels

- 8CALL90
- 8CALL90D
- 8TAC91
- 8TAC91D
- 8TAC92
- 8TAC92D
- 8TAC93
- 8TAC93D
- 8TAC94
- 8TAC94D
- 7CALL50
- 7CALL50D
- 7TAC51
- 7TAC51D
- 7TAC52
- 7TAC52D
- 7TAC53
- 7TAC53D
- 7TAC54
- 7TAC54D
- 7TAC55
- 7TAC55D
- 7TAC56
- 7TAC56D
- 7GTAC57
- 7GTAC57D
- 7MOB59
- 7MOB59D
- 7LAW61
- 7LAW61D
- 7LAW62
- 7LAW62D
- 7FIRE63
- 7FIRE63D
- 7FIRE64
- 7FIRE64D
- 7MED65
- 7MED65D
- 7MED66
- 7MED66D
- 7CALL70
- 7CALL70D
- 7TAC71
- 7TAC71D
- 7TAC72
- 7TAC72D
- 7TAC73
- 7TAC73D
- 7TAC74
- 7TAC74D
- 7TAC75
- 7TAC75D
- 7TAC76
- 7TAC76D
- 7GTAC77
- 7GTAC77D
- 7MOB79
- 7MOB79D
- 7LAW81
- 7LAW81D
- 7LAW82
- 7LAW82D
- 7FIRE83
- 7FIRE83D
- 7FIRE84
- 7FIRE84D
- 7MED86
- 7MED86D
- 7MED87
- 7MED87D



IPSC Basic Template

<i>Channel</i>	Zone A	Zone B	Zone C	Zone D	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K	Zone L	Zone M
		SWA	RMA1	RMA2	RMA3	RMA4	EVT	EMS	8 IO	7 IO a	7 IO b	7 IO c	7 IO d
1	Local	SW-CALL	A-MA1	E-MA1	I-MA1	M-MA1	EVENT N-1	HOSP-N-DISP	8CALL90	7CALL50	7MOB59	7CALL70	7MOB79
2	Local	SW-MA1	A-MA2	E-MA2	I-MA2	M-MA2	EVENT N-2	HOSP-N-OPS1	8CALL90D	7CALL50D	7MOB59D	7CALL70D	7MOB79D
3	Local	SW-MA2	A-MA3	E-MA3	I-MA3	M-MA3	EVENT N-3	HOSP-N-OPS2	8TAC91	7TAC51	7LAW61	7TAC71	7LAW81
4	Local	SW-MA3	A-MA4	E-MA4	I-MA4	M-MA4	EVENT N-4	HOSP-N-OPS3	8TAC91D	7TAC51D	7LAW61D	7TAC71D	7LAW81D
5	Local	SW-MA4	B-MA1	F-MA1	J-MA1	N-MA1	EVENT N-5	HOSP-N-OPS4	8TAC92	7TAC52	7LAW62	7TAC72	7LAW82
6	Local	SW-MA5	B-MA2	F-MA2	J-MA2	N-MA2	EVENT S-1	HOSP-N-OPS5	8TAC92D	7TAC52D	7LAW62D	7TAC72D	7LAW82D
7	Local	SW-MA6	B-MA3	F-MA3	J-MA3	N-MA3	EVENT S-2	HOSP-S-DISP	8TAC93	7TAC53	7FIRE63	7TAC73	7FIRE83
8	Local	SW-MA7	B-MA4	F-MA4	J-MA4	N-MA4	EVENT S-3	HOSP-S-OPS1	8TAC93D	7TAC53D	7FIRE63D	7TAC73D	7FIRE83D
9	Local	SW-MA9	C-MA1	G-MA1	K-MA1	O-MA1	EVENT S-4	HOSP-S-OPS2	8TAC94	7TAC54	7FIRE64	7TAC74	7FIRE84
10	Local	PROGRAM	C-MA2	G-MA2	K-MA2	O-MA2	EVENT S-5	HOSP-S-OPS3	8TAC94D	7TAC54D	7FIRE64D	7TAC74D	7FIRE84D
11	Local	RGRP	C-MA3	G-MA3	K-MA3	O-MA3		HOSP-S-OPS4		7TAC55	7MED65	7TAC75	7MED86
12	Local		C-MA4	G-MA4	K-MA4	O-MA4		HOSP-S-OPS5		7TAC55D	7MED65D	7TAC75D	7MED86D
13	Local		D-MA1	H-MA1	L-MA1					7TAC56	7MED66	7TAC76	7MED87
14	Local		D-MA2	H-MA2	L-MA2					7TAC56D	7MED66D	7TAC76D	7MED87D
15	Local		D-MA3	H-MA3	L-MA3						7TAC57		7GTAC77
16	Local		D-MA4	H-MA4	L-MA4						7TAC57D		7GTAC77D

Mutual Aid Talkgroups

In Indiana there are:

- 15 Regional Mutual Aid Talkgroups - Each region has 4 talk paths
- 10 Statewide Mutual Aid Talkgroups

These are available on the SAFE-T System, and should be included in your Communication Plan.





Integrated Public Safety Commission NPSPAC - Conventional 800 MHz Interoperability Sites*

Lowell ISP 219-696-6242
 Site 8 - Summit - SCALL & STAC91
 Site 11 - Lowell - SCALL & STAC94
 Site 13 - Monon - SCALL & STAC93
 Site 14 - Lafayette - SCALL & STAC92
 Site 6054 - Crawfordsville - SCALL & STAC94

Toil Road 574-206-2931
 Site 7 - Plymouth - SCALL & STAC94
 Site 508 - Elkhart - SCALL & STAC93

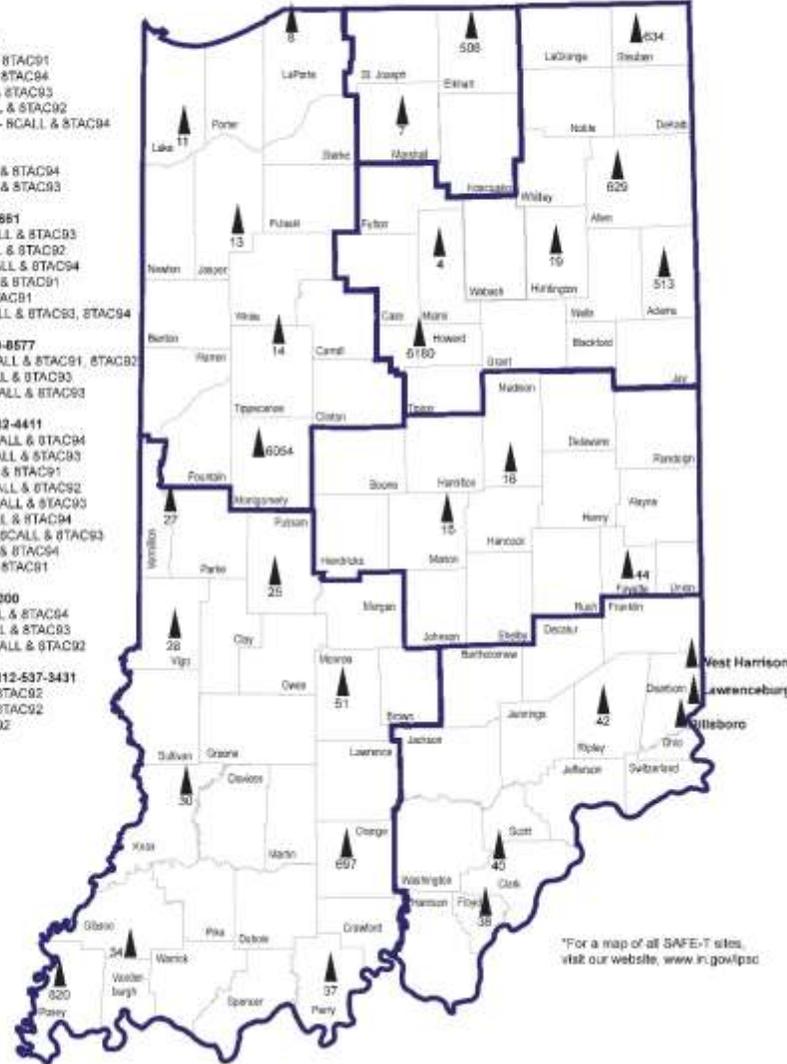
Ft Wayne ISP 260-432-9661
 Site 19 - Huntington - SCALL & STAC93
 Site 513 - Decatur - SCALL & STAC92
 Site 629 - Ft. Wayne - SCALL & STAC94
 Site 634 - Angola - SCALL & STAC91
 Site 4 - Peru - SCALL & STAC91
 Site 6160 - Kokomo - SCALL & STAC93, STAC94

Indianapolis ISP 317-899-8577
 Site 15 - Indianapolis - SCALL & STAC91, STAC92
 Site 18 - Pendleton - SCALL & STAC93
 Site 44 - Connersville - SCALL & STAC93

Bloomington ISP 812-332-4411
 Site 21 - Bloomington - SCALL & STAC94
 Site 25 - Putnamville - SCALL & STAC93
 Site 27 - Newport - SCALL & STAC91
 Site 28 - Terre Haute - SCALL & STAC92
 Site 30 - Edinburg - SCALL & STAC93
 Site 34 - Evansville - SCALL & STAC94
 Site 820 - New Harmony - SCALL & STAC93
 Site 37 - Leopold - SCALL & STAC94
 Site 897 - Paoli - SCALL & STAC91

Versailles ISP 812-889-5000
 Site 42 - Versailles - SCALL & STAC94
 Site 40 - Henryville - SCALL & STAC93
 Site 36 - Floyd Knob - SCALL & STAC92

Dearborn Co. Dispatch 812-637-3431
 West Harrison - SCALL & STAC92
 Lawrenceburg - SCALL & STAC92
 Dillsboro - SCALL & STAC92



*For a map of all SAFE-T sites, visit our website, www.in.gov/ipsd

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Challenges to Interoperability

- Budget
- Planning
- Coordination & Cooperation & Consistency
- Incompatible Equipment or Aging Equipment



Achieving Interoperability

Interoperability starts with partnerships, planning and more partnerships



Take 5 minutes:
Introduce yourself to at least three people in the room you don't know, exchange business cards or write down their information.



All Hazards Approach

When looking at planning for communications it's best to take an all hazards approach.

An all-hazards approach to emergency preparedness encourages **effective** and **consistent** response to any disaster or emergency, regardless of the cause.



Public Safety as one

The public we serve isn't separated by jurisdictional boundaries and separate administrations, they only have the expectation that when they call for help someone will arrive and assist them.

Police, Fire, EMS, EMA and 911 should strive to work together as Public Safety instead of working individually. These partnerships and cooperation help ensure that public safety funds are used efficiently for effective communication systems.



Who are your stakeholders?



Did you include...

Field Operations Users....

- Dispatcher
- Patrol officer
- Firefighter
- Paramedic
- School Resource Officer
- Jailer
- ER Nurse

Also....

- Radio Programmer
- RACES/ARES groups
- IT and GIS Departments
- Highway/Utility Departments
- CERT team
- General Public
- Local Media

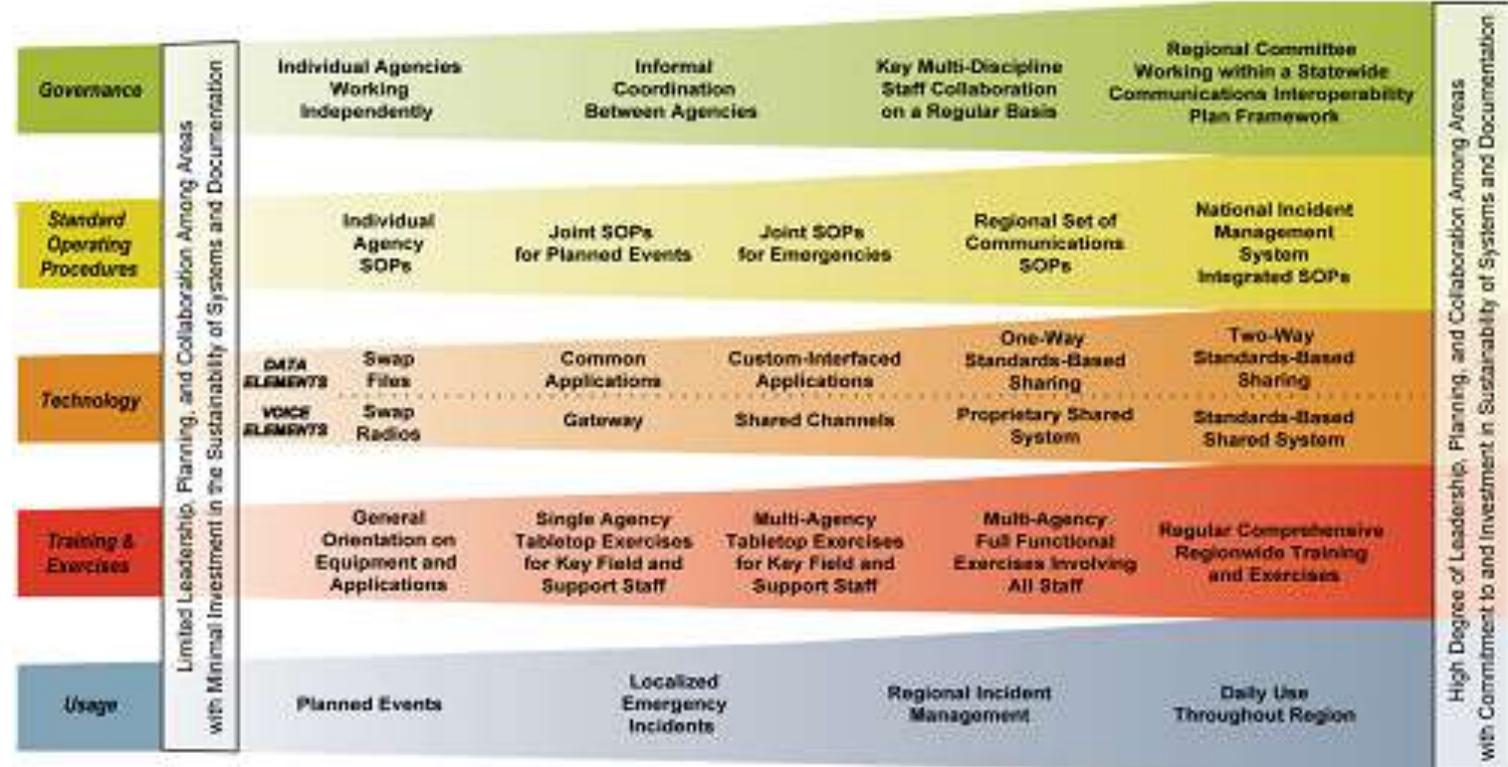
Moving forward



Interoperability Continuum

Take a minute to mark on the Interoperability Continuum where you are now.

Use this as a guide to where you would like to be in the future.



The remainder of the workshop
will demonstrate new technology
and ideas to help move your
agency forward