May 2021 Chiefs & Sheriff's Association Meeting





PUBLIC SAFETY COMMUNICATIONS IN ND 230,000 Calls to 9-1-1 each year 9-1-1 Calls are received every 2 MINUTES 24 hours a day, 365 days a year

SIRN Today, Tomorrow and beyond



Pre-2019

Fragmented
Systems
Little to No
Interoperability &
Coverage Issues

SIRN 2020 Today

- ➤ Updating DOT sites 45
- ➤ Adding 95 more sites
 - Working with City/County Government to use local assets
- Almost 50% of PSAPs on new MCC 7500 Consoles with 18 of the 22 upgraded by end of 2021
 - ➤ Allowing for Direct Communications with other PSAPS

SIRN 2020 into the future...

- ➤ Interoperability with MN, SD, Manitoba, Verizon, AT&T, Federal Government
- ➤ LTE Integration via Critical Connect / Smart Connect
- ➤ Centralized Logging
- ➤ Mission Critical PTT via LTE

SIRN Today, Tomorrow and beyond



SIRN 2020 into the future...

- ➤ Interoperability with MN, SD, Manitoba, Verizon, AT&T, Federal Government
- ➤ LTE Integration via Critical Connect / Smart Connect
- ➤ Centralized Logging

- LTE (Mission Critical Push to Talk (MCPTT))
 - Not meant to replace LMR, but augment
 - Cost Savings on Admin staff and benefits
- Centralized Logging LMR
 - Local recorder for 911/admin lines
- Other Technologies

SIRN Today

Transitioning to the future



PSAPs Preparing to Transition to 800Mhz

- Fleetmaps
 - Final Naming, how do we communicate, breaking old thought processes
 - Working with your PSAP is key
 - Approval to program by every entity/department is needed
 - Preparing Williston PD, Grand Forks, Minot, Bismarck, Dickinson

SIRN Today Continued

Transitioning to the future



PSAPs Preparing to Transition to 800Mhz Continued

- Radio Talkgroup Layouts
 - State minimums on all radios
 - How, what types of events, patching to make interoperability happen

OH1	OH2	OH3	01 LAV 1	01 LAW 2	01 FIRE/EMS	01 LOCAL GOV	01 LOCAL MA	02 LAV 1	2LA¥2	UZ FIREZEMS	02 FIRE/EMS 2	03 STATE LAVI	03 STATE LAW2	03 STATE FIEMS	04 Other	05 REGIONAL	05 STATE MA1	05 STATE MA2	5 NAT'L 700MA1	5 NAT'L 700MA2	5 NAT'L 8001MA	5 NAT'L VHF MA
			HOME LE	HOME LE	Home Fire_EMS	HOME Local Govt	Local MA	Adjacent LE		Adjacent Fire		State LE	State LE	State Fire_EMS	Other/Misc.	Regional Interop	Statewide MA	Statewide MA	National MA (700)	National MA (700)	National MA (800)	National MA (YHF)
							## CV LE MA1					00HP FG OPS1	SR 01LE BD	00_FSREGIA		ND NV MA HAIL	ND MA HAIL	ND MA HAIL	7CALL50	7CALL50_D	8CALL90	VCALL10
PURSUIT	PURSUIT	PURSUIT					## CVILE MA 2					00HP JN 0PS1	SR 01LE MW	00_FSREGB		ND NV PURSUIT	ND PURSUIT 1	ND MA 16	7TAC51	7TAC51_D	8TAC91	VTAC11
							## CV MA 3					00HP BK 0PS1	SR01LEM	00_FSREGIC		ND NV MA 01	ND PURSUIT 2	ND MA 17	7TAC52	7TAC52_D	8TAC92	VTAC12
							## CV MA 4					00HP DK OPS1	SR 02 LE ANN	00_FSREGID		ND NV MA 02	ND MA 03 E	ND MA 18	7TAC53	7TAC53_D	8TAC93	VTAC13
							## CV MA 5					00HP VN OPS1	SR 02 LE BRR	00_FSREGIE	Examples:	ND NV MA 03	ND MA 04 E	ND MA 19	7TAC54	7TAC54_D	8TAC94	VTAC14
							## CV MA 6					00HP MT OPS1	SR 02 LE MPSW	00_FSREGF	Hospitals	ND NV MA 04	ND MA 05 E	ND MA 20	7TAC55	7TAC55_D	8CALL90_D	VFIRE21
												00HP DL OPS1		00_FSREGG	NDDOT	ND NV MA 05	ND MA 6	ND MA 21	7TAC56	7TAC56_D	8TAC91_D	VFIRE22
												00HP GF OPS1		00_FSREGH	P&R	ND NV MA 06	ND MA 7	ND MA 22	7GTAC57	7GTAC57_D	8TAC92_D	VFIRE23
												00BCLBK 0PS1		_	GametiFish	ND SV MA HAIL	NDMA8	ND MA 23	7MOB59	7MOB59_D	8TAC93_D	VFIRE24
												00BCLDK 0PS1		00_DOH OPS 1	DOH	ND SW PURSUIT	ND MA 9	ND MA 24	7LAW61	7LAW61_D	8TAC94_D	VFIRE25
												00BCI VN OPS	1	00_DOH OPS 2	BCI	ND SV MA 01E	ND MA 10	ND MA 25	7LAW62	7LAW62_D		VFIRE26
														00 DOH OPS 3	Federal Agencie	s ND SV MA 02	ND MA 11	ND MA 26	7FIRE63	7FIRE63 D		VMED28
														00_DOH OPS 4	_	ND SV MA 03	ND MA 12	ND MA 27	7FIRE64	7FIRE64 D		VMED29
														00_DOH OPS 5		ND SV MA 04	ND MA 13	ND MA 28	7MED65	7MED65_D		VLAW31
														00_DOHOPS6		ND SV MA 05	ND MA 14	ND MA 29	7MED66	7MED66_D		VLAW32
														_		ND SV MA 06	ND MA 15	ND MA 30	7DATA69	7DATA69_D		SAR NFM

SIRN Today Continued

Transitioning to the future



OH1	OH2	OH3	01 LAV 1	01 LA¥ 2	01 FIRE/EMS
			HOME LE	HOME LE	Home Fire_EMS
PURSUIT	PURSUIT	PURSUIT			

01 LOCAL GOY	01 LOCAL MA	02 LAV 1	2LA¥2	02 FIRE/EMS 1	02 FIRE/EMS 2
HOME Local Govt	Local MA	Adjacent LE		Adjacent Fire	
	## CV LE MA1				
	## CV LE MA 2				
	## CV MA3				
	## CV MA 4				
	##CVMA5				
	##CVMA6				
		05 REGION	IAL 05 REGIONA	L 05 STATE	05 STATE

03 ST	ATE	03 ST/	ATE	03	STATE		04 Other
LAV	V1	LAV	2	F/EMS			04 Other
State	LE	State	LE	Fi	State re_EMS		Other/Misc.
00HP F0	G OPS1	SR 01L	EBD	00_	FS REG A		
00HP JN	VOPS1	SR 01LB	EMW :	00_	FSREGB	}	
00HP BI	K OPS1	SR 01L	EΜ	00_	FS REGIO	;	
00HP D	K OPS1	SR 02 LB	ANN	00_	FSREGO)	
00HP W	N OPS1	SR 02 LB	BRR	00_	FSREGE		Examples:
00HP M	T OPS1	SR 02 LE	MPSW	00_	FSREGF		Hospitals
00HP D	L OPS1			00_	FS REG G	ì	NDDOT
00HP G	F OPS1			00_	FS REG H	ł	P&R
00BCIB	K OPS1						GametiFish
00BCID	K OPS1			00_	DOHOPS	1	DOH
00BCIW	N OPS1			00_0	DOH OPS:	2	BCI
				00_0	DOH OPS:	3	Federal Agencies
NAT'L	5 NAT'L	. 700MA2			5 NAT'L		
	State OOHP FI OOHP JI OOHP D OOHP W OOHP G OOHP G OOBCI B OOBCI W	00HP MT OPS1 00HP DL OPS1 00HP GF OPS1 00BCI BK OPS1 00BCI DK OPS1 00BCI WN OPS1	### CONTROL OF STATE CONTROL OF CONTROL O	LAV1 LAV2 State LE State LE 00HP FG OPS1 SR 01 LE MD 00HP JN OPS1 SR 01 LE MW 00HP BK OPS1 SR 02 LE ANN 00HP WN OPS1 SR 02 LE MPSW 00HP MT OPS1 SR 02 LE MPSW 00HP GF OPS1 00BCI BK OPS1 00BCI WN OPS1 5 NAT'L 700MA2	LAV1	State LE	State LE

- Radio Talkgroup Layouts
 - State minimums on all radios

	05 REGIONAL MA	05 REGIONAL MA	05 STATE MA1	05 STATE MA2	5 NAT'L 700MA1	5 NAT'L 700MA2	5 NAT'L 8001MA	5 NAT'L VHF MA
	Regional Interop	Regional Interop	Statewide MA	Statevide MA	National MA (700)	National MA (700)	National MA (800)	MA
	ND NW MA HAIL	ND NE MA HAIL	ND MA HAIL	ND MA HAIL	7CALL50	7CALL50_D	8CALL90	VCALL10
	ND NW PURSUIT	ND NE PURSUIT	ND PURSUIT 1	ND MA 16	7TAC51	7TAC51_D	8TAC91	VTAC11
	ND NW MA 01E	ND NE MA 01E	ND PURSUIT 2	ND MA 17	7TAC52	7TAC52_D	8TAC92	VTAC12
	ND NW MA 02	ND NE MA 02	ND MA 03 E	ND MA 18	7TAC53	7TAC53_D	8TAC93	VTAC13
ı	ND NW MA 03	ND NE MA 03	ND MA 04 E	ND MA 19	7TAC54	7TAC54_D	8TAC94	VTAC14
Ī	ND NW MA 04	ND NE MA 04	ND MA 05 E	ND MA 20	7TAC55	7TAC55_D	8CALL90_D	VFIRE21
	ND NW MA 05	ND NE MA 05	NDMA6	ND MA 21	7TAC56	7TAC56_D	8TAC91_D	VFIRE22
	ND NW MA 06	ND NE MA 06	ND MA 7	ND MA 22	7GTAC57	7GTAC57_D	8TAC92_D	VFIRE23
	ND SW MA HAIL	ND SE MA HAIL	NDMA8	ND MA 23	7MOB59	7MOB59_D	8TAC93_D	VFIRE24
ı	ND SW PURSUIT	ND SE PURSUIT	ND MA 9	ND MA 24	7LAW61	7LAW61_D	8TAC94_D	VFIRE25
Ī	ND SW MA 01E	ND SEMA 01E	ND MA 10	ND MA 25	7LAW62	7LAW62_D		VFIRE26
9	ND SW MA 02	ND SEMA 02	ND MA 11	ND MA 26	7FIRE63	7FIRE63_D		VMED28
Ī	ND SW MA 03	ND SEMA 03	ND MA 12	ND MA 27	7FIRE64	7FIRE64_D		VMED29
	ND SW MA 04	ND SEMA 04	ND MA 13	ND MA 28	7MED65	7MED65_D		VLAW31
	ND SW MA 05	ND SEMA 05	ND MA 14	ND MA 29	7MED66	7MED66_D		VLAW32
	ND SW MA 06	ND SEMA 06	ND MA 15	ND MA 30	7DATA69	7DATA69_D		SARINEM

SIRN HISTORY

CONVENTIONAL VS TRUNKING

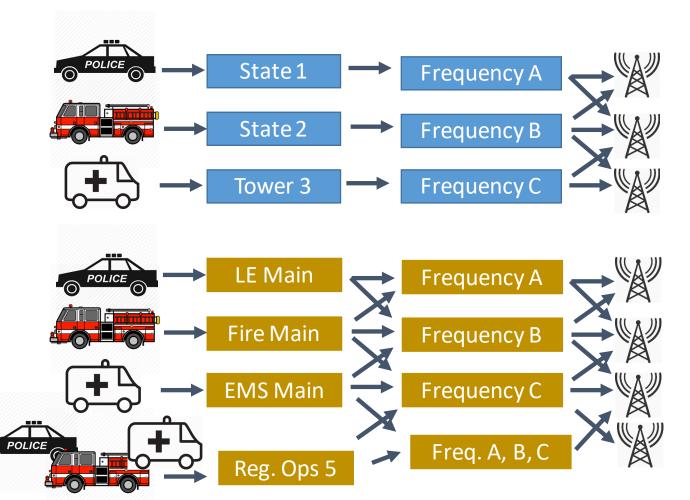


Conventional Radio System:

- User chooses a frequency
- Bound to a specific set of towers
- Assigned to a specific purpose

Trunked Radio System:

- User chooses a specific talk group
- Assigned to a specific purpose
- Not bound to a frequency
- Not bound to a specific set of towers
 - System programmable
- Can be local, county, regional, state, federal







LTE Main

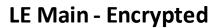
Dispatcher at PSAP sends message to responders



HOW SIRN TG's WORKS



Trauma 1





FIRE 1









EMS 1

HP



SIRN

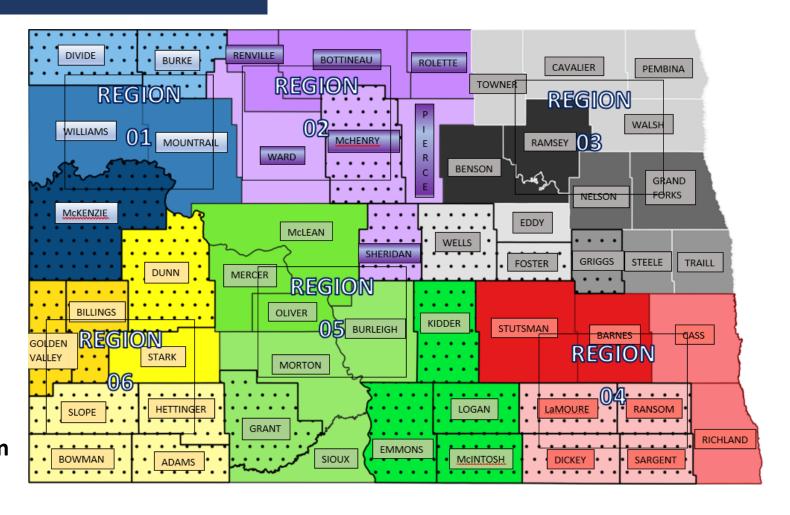
Project Status - Link on

SIRN2020.nd.gov



800 Mhz only or Multiband / Dual Band?

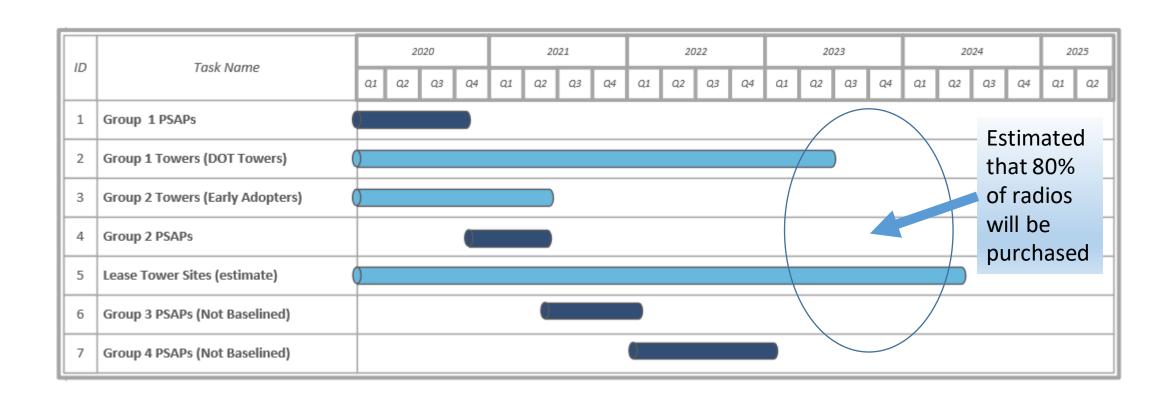
- When are your neighbors transitioning?
- Do you neighbor State Radio Counties or Lake Region?
 - Options to overcome challenges
 - Side mount mobile, VHF portables, etc.
- State will have Mobile Coverage first, then fill in portable



SIRN

PROJECT TIMELINE





SIRN

GOVERNANCE & POLICY



- ➤ Workgroups developing standards which are then reviewed/approved by Subcommittee / SIEC
 - SIRN Standards Page
 - Governance Page



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Home / Statewide Interoperability Executive Committee (SIEC) / SIRN 20/20

SIRN 20/20

Recent news

SIRN Buildout & Transition (January 2022)

SIRN 101 Presentation (October 2020)

Project Status as of January 2022

Project Status as of December 2021

Project Status as of November 2021

SIRN - Infographic

2021 PSAP Replacement Schedules: Pending Replan

2021 Tower / RF schedules: Pending Replan

Televate Landscape Survey Summary Report and SIEC Briefing

2021

- 75% of Dispatch Centers Upgraded to new Consoles
- 66% of Mobile Buildout Completed
- 3 Dispatch Centers Transitioned to 800Mhz (Williston, Grand Forks, Minot)

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NORTHDAKOTA STATEWIDE INTEROPERABLE RADIO NETWORK

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