



# Winnebago County All Departments Subscriber Unit Radio Replacement

2023-2024 CIP or ARPA??

10/2022

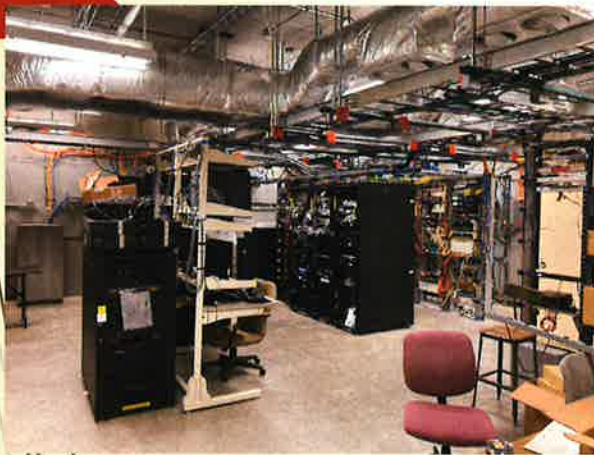


## Public Safety Communications System

- In simplest terms, this is the radio system used by all public safety entities in Winnebago County – all police and fire agencies, and then some
- Ensures mission critical communications and interoperability occurs
  - WC Sheriff (all Divisions), WC Highway, WC Facilities, WC Public Health, WC Emergency Management, DA's Office all use the system.
- Approx. 400 subscribers belong to County Departments
  - Approx. 1,550 total subscribers belong to public safety radios in Winnebago County
  - Many local police and fire have begun to replace theirs already
- Average 1.7 million radio transmissions annually

## Communications System History

- ▶ Major county-wide project began in 2010
  - ▶ Stakeholders involved, feasibility study, RFP's
  - ▶ A Motorola radio system was selected
- ▶ Federally mandated narrow banding of all radio systems was required by 2013.
- ▶ From 2011-2012, Winnebago County:
  - ▶ Invested \$5 million for radio infrastructure (800 MHz and P25 compliant Motorola Astro 25)
  - ▶ Invested an additional \$5.5 million on 1,500 subscriber unit radios for ALL public safety entities in the county. Those subscriber units are nearing end of life now.



## Communications System History

- Components have a shelf life
  - The first focus was on the infrastructure upgrades
- 2021 CIP Project replaced 4 microwaves \$330,000
  - Other legacy components have been gradually replaced



## Communications System History

- Narrow banding mandate – entered into a joint cost savings measure with Outagamie County -- the radio and recording system infrastructure is jointly owned and shared with Outagamie County – signed agreement through December 31, 2031
- 2022 is Year 3 of a 10 year maintenance agreement for the Motorola Astro 25 (with 11 year old equipment)
  - \$5.1 million in maintenance over 10 years
  - Able to replace/repair/upgrade/update as needed
  - Major software upgrade occurred over one month in September/October 2022 as part of this maintenance agreement

## Today – End of Life (7-10 years =2022)

- ▀ Subscriber Units are at end of life – Winnebago County Departments must replace:
  - ▀ 80 Mobiles (radios permanently mounted in vehicles)
  - ▀ 325 Portables (hand-held radios)
  - ▀ 12 Consolettes (back up systems and DVRS boosters)



**NOW –  
MUST  
PURCHASE**

DEPT	TYPE	QUANTITY		UNIT COST	TOTAL COST
DIST ATTORNEY	APX4000	3		\$3,696.00	\$11,088.00
EMER MGMT	APX8000	6		\$7,572.00	\$45,432.00
EMER MGMT	APX6500	2		\$5,061.00	\$10,122.00
EMER MGMT	APX8500	5		\$8,000.00	\$40,000.00
FACILITIES	APX4000	38		\$3,696.00	\$140,448.00
HIGHWAY	APX4000	62		\$3,696.00	\$229,152.00
HIGHWAY	APX4500	29		\$3,647.00	\$105,763.00
PUBLIC HEALTH	APX4000	10		\$3,696.00	\$36,960.00
CORONER*	APX4000	4		\$3,696.00	\$14,784.00
SHERIFF	APX4000	34	Clerk/Reserve	\$3,696.00	\$125,664.00
SHERIFF	APX6000	75	Corrections	\$5,414.00	\$406,050.00
SHERIFF	APX6500	40	Squads	\$5,061.00	\$202,440.00
SHERIFF	APX8000	97	Admin/Pat/Det	\$8,219.00	\$797,243.00
SHERIFF	APX8500	4	Command Post	\$6,538.00	\$26,152.00
SHERIFF	APX800 Con	12	BUCS / DVRS	\$11,533.00	\$138,396.00

\*\*\*All Items State Contract Pricing (as of April 2022)

**\$2,329,694.00**

## Additional Costs

- Programming – approx. \$85.00/unit (Vendor quote)
  - Total \$35,785
- Installing Mobiles – approx. \$500.00/vehicle (Vendor quote)
  - Total \$40,000
- Accessories – Earpieces - \$50 each
  - \$16,250
- Bank chargers – 4 @ \$1,050 each = \$4,200
- Current accessories will still fit (leather or nylon holders; extra batteries)

## Grand Total

\*\*\*If purchased as one in 2023

**\$2,426,129.00**

\*\* Total has increased \$325,000 since Fall 2021 CIP planning

## CIP Plan --- or ARPA??

- ▶ Purchase the 421 radios for ALL county Departments
- ▶ Current CIP books 2021-2025 and 2022-2026 both list \$700,000 for each year 2023-2024-2025 – spread out bonding
  - ▶ \$2.1 million --- Based upon 2020/2021 pricing
- ▶ Now – split amongst 2 years (2023 – 2024)
  - ▶ 2023 – Sheriff's Office only (262 radios ~ **\$1.8 million**)
  - ▶ 2024 – All other County Departments (159 radios = \$672,000 + 13%? ~ **\$760,000**)
- ▶ Decision --- CIP or ARPA funds?

## Alternatives Considered

- ▶ Motorola selected as the vendor in 2011
- ▶ Significant infrastructure investments into Astro P25 System – the features are crucial, and known to us
  - ▶ Construction and Durability
  - ▶ Battery Life
  - ▶ Range, Frequency, and Audio Quality
  - ▶ Mobile Installation and Wiring
  - ▶ Vendor relationship
  - ▶ Maintenance Contracts



## Alternatives Considered

- Replace radios with Motorola's new APX NEXT Smart Radio
  - Base price is higher (approx. \$1,000 each)
  - Must include monthly service fee (\$75 a month), per device, for the life of the device
- Use non-Motorola products
  - Separate vendors, different radio programming procedures, and additional ongoing maintenance agreements
  - Would need to replace ALL accessories
  - Limited and unsuccessful track records



Questions??

Capt. Lara Vendola-Messer  
lvendola@winnebagocountywi.gov  
920-236-7337