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## CITY COUNCIL REPORT

**DATE:** August 8, 2019  
**TO:** Mayor and Council, City Manager  
**FROM:** Kraig Fullen, Chief of Police  
**SUBJECT:** Communications Infrastructure Upgrade

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This report is intended to clarify the Police Department's request for Communications Infrastructure Upgrade and to request a renewed sense of urgency for funding priority in the City CIP.

### **DISCUSSION:**

The Police Department hosts the Public Safety Answering Point (PSAP) for the City of Douglas and surrounding area. The PSAP is responsible for answering emergency calls for service through the 9-1-1 system as well as non-emergency calls received through the Department's administrative lines.

The PSAP utilizes hardware and software that is funded by the Arizona State 9-1-1 Office for the 9-1-1 side of the system; whereas the Department is responsible for funding the hardware and software to dispatch the calls for service to Police/Fire/EMS through our radio dispatch.

The radio system resides on a computer console and is accessed by Communications Dispatchers, similar to the image below. The Department has two "positions" for dispatching and therefore two mirrored computer systems where they can dispatch simultaneously.



The computer console which houses the radio system, the radio repeaters and radio antenna make up the “Communications Infrastructure”. For ease of terms it is our radio base station or our radio backbone.

The radio base station was last upgraded in 2007 and is now obsolete. Should the computer hardware fail, we will no longer be communicating through our radio base station and will be forced to use hand-held radios to communicate. It is literally the equivalent of going from this -



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- to this;



which as you might image is a drastic reduction in our signal strength and range when communicating with police and fire personnel. This concern is magnified when we are currently looking to expand the City limits (and therefore our communications range) through annexation efforts to points further north, east and west.

An estimate to replace and upgrade our entire radio system was requested from Motorola earlier this year. The upgrade included the replacement of the radio infrastructure (consoles, repeaters and antenna) and mobile (vehicle mounted) and portable (hand-held) radios for police and fire at a cost of \$3.6M. The amount allocated for Fire's radios can be deducted from this cost estimate as they were already funded.

A second estimate was requested for solely the base radio infrastructure and was received from Motorola this afternoon. The base cost is \$575,329.47. There is also the option of a lease/purchase agreement where the amount can be spread over a number of years with the first payment due after the first year following installation as well as the potential for year-end incentives from Motorola. Should that be an option, those figures will need to be requested.

In addition to the base cost, there is an annual maintenance and upgrade agreement at one-year increments that average around \$82,000 per year. This provides software – and if needed – hardware upgrades for the term of the agreement. The pricing summary is attached at the end of this report. A copy of the full agreement will be provided to Mrs. Watson.

Funding the upgrade of this equipment will provide stability to the existing system and allow for continued interoperable communications during emergency response while providing some much needed time for the Department/Administration to fund the remaining components of the system which are equally needed, but less critical than this infrastructure. The remaining components (mobiles and portables) for Police is estimated to cost an additional \$1.5M.

**RECOMMENDATION / CONCLUSION:**

This report is for information only.

SECTION 9

# PRICING SUMMARY

Please see the pricing summary included below.

## 9.1 DISPATCH EQUIPMENT, LOGGING RECORDER AND SERVICES SUMMARY

Description	Price (\$)
Dispatch Equipment, Implementation Services & Warranty Services	\$350,265.00
Logging Equipment, Implementation Services & Warranty Services	\$31,621.00
Optional MCC 7500E Training	\$13,592.00
RF Repeaters and Antenna System Equipment & Implementation/Warranty Services	\$158,779.00
Estimated Sales Tax	\$21,072.47
<b>TOTAL SYSTEM</b>	<b>\$575,329.47</b>

## 9.2 DISPATCH & VHF EXTENDED MAINTENANCE & SYSTEM UPGRADE AGREEMENT (SUA II)

Description	Price (\$)
Year 2	\$82,323.91
Year 3	\$78,791.17
Year 4	\$81,728.90
Year 5	\$84,823.61
Year 6	\$88,086.29
Year 7	\$91,522.93
Year 8	\$78,532.18
Year 9	\$81,853.86
Year 10	\$85,368.00
<b>TOTAL YEARS 2-10</b>	<b>\$753,030.84</b>

NOTE: Services for Verint products are only included through Year 7.