

# 6<sup>TH</sup> PENNY PROJECT PROPOSALS

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CHEYENNE POLICE DEPARTMENT

# PROPOSAL ONE – PORTABLE RADIOS

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- The Cheyenne Police Department is currently using Motorola APX 7000 portable radios for portable communication. In July 2021 Motorola will discontinue support of these radios rendering the department's current equipment obsolete.



# CHEYENNE POLICE DEPARTMENT PORTABLE RADIO PROGRAM

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- All 114 officers and community service officers of the Cheyenne Police Department are issued a portable radio.
- Portable radios are the lifeline of officers while working in the field.
- During large scale emergencies and events, the department must also be prepared to issue portable radios to outside agency personnel.
- An additional stockpile of radios is essential to be able to replace damaged radios as well as equip civilian employees and volunteers assisting with crime scenes, traffic control, and other duties.



# MOTOROLA APX 7000 PORTABLE RADIO

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- The current portable radio used by Cheyenne Police Employees.
  - Historically 1-3 radios experienced failure and needed parts or repair from Motorola per year.
  - The radios are failing at an increased rate
    - Since January 1, 2021 four CPD Radios have needed repairs from Motorola and are still out of service.

# MOTOROLA APX 8000 PORTABLE RADIO

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- Similar functioning to current radio requiring little training.
- Many of the accessories will continue to work with the new radio
- GPS standard
- New Adaptive Audio Engine – brings additional clarity to conversations
- Wi-Fi compatible will allow for more efficient software updates





# STREET AND ALLEY RADIOS

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- Winter storm Xylia highlighted the importance of communication between first responders and city service providers.
- Snowplows were essential in clearing the way for police, fire, and EMS.
- Communication between agencies was a challenge (cell phones with poor reception due to the storm).
- New radios will allow street and alley employees to access the Wyolink radio system to communicate directly on mutual aid channels with all local emergency responders if needed.



# MOTOROLA APX 6500 MOBILE RADIO

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- Installed in 11 street and alley vehicles.
- Will replace current unsupported radios and be Wyolink compatible.



# COST

ALL QUOTED INCLUDE MICS, CABLES, PROGRAMMING, ENCRYPTION (LE RADIOS), BATTERIES, AND CHARGERS

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- 130 - Motorola APX 8000 portable radios with
  - \$854,674.60 (\$6,574.42 per unit)
- 11 – Motorola APX 6500 Mobile Radios
  - \$48,787.75 (\$4435.25 per unit)
- Installation for Mobile Radios
  - \$3,505.00
- Total Cost \$906,967.35





## PROPOSAL TWO – ELECTRONIC EVIDENCE STORAGE

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- The Police Department has a need for storage expansion concerning the evidence and archival application system that is leveraged by the department. Along the archival storage needs for evidence, there is an extended need for storage expansion due to computer forensic downloads as well as cellular phone extraction/forensics and downloads.

# CASEGUARD

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- The application used to store and manage the Police Department's electronic evidence.
  - Crime scene photographs
  - Surveillance videos
  - Bodycam footage
  - In-car camera footage
- Evidence is managed by Evidence Technician and kept based on the scheduled retention period (crime specific).



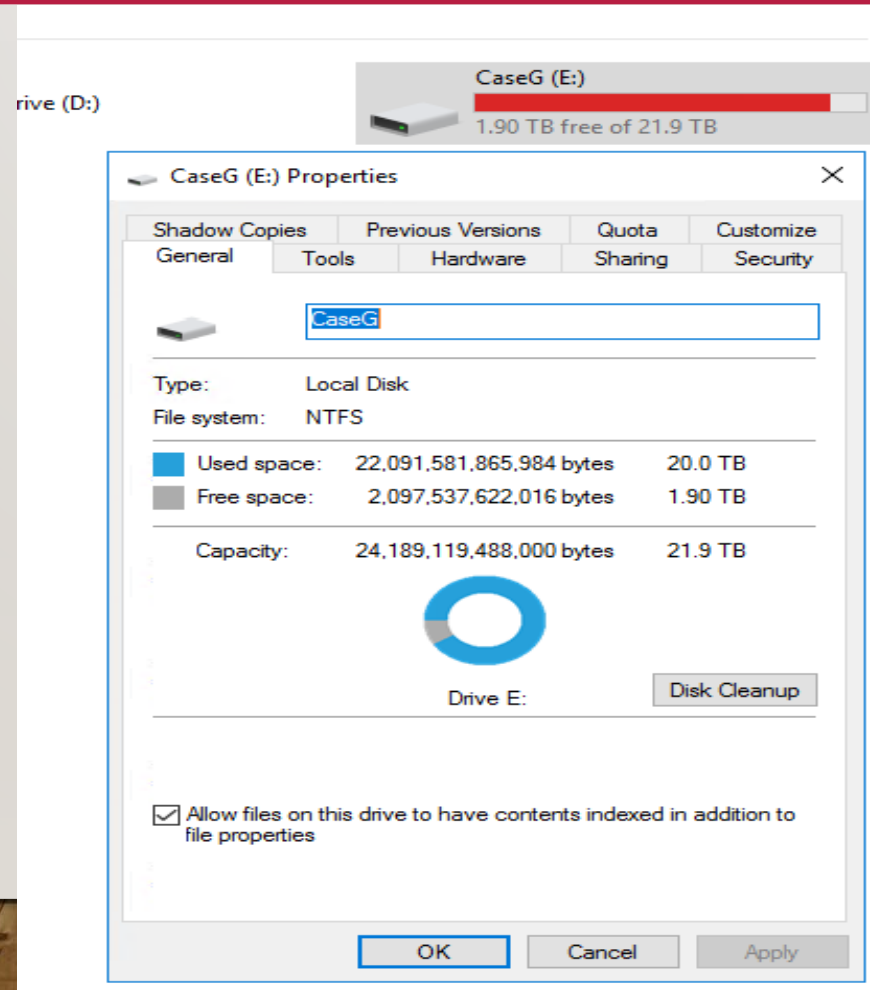
# CASEGUARD SERVER HARDWARE

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- VMWare Virtual Machine, sized and optimized for running CaseGuard application.
- Directly attached to physical server hosts running the VM (Virtual Machine) is a DELL MD3420 SAN solution.
  - A chassis that houses 24 1.8 TB hard drives at 10K RPM providing approximately 22TB of storage.

# CASEGUARD SERVER SPACE

AS ILLUSTRATED BELOW, THE SPACE AVAILABLE IS 1.9TB





# CASEGUARD SERVER PROBLEMS

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- It is not possible to expand current system due to its age.
  - The hardware vendor does not provide for sale additional hardware in this model series.
- CaseGuard data backup is on a remote system in the Municipal Building.
  - This storage system is also nearing full capacity and has less than a year on its warranty.
- Computer forensics downloads and cell phone images are becoming more prevalent and take more storage space.
  - The current solution is low cost, fragmented, bulk storage systems that are not backed up and are not best practice.

# SOLUTION PROPOSAL

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- A new updated set consisting of three storage systems capable of housing twice as much storage for the CaseGuard system, the backup and provide storage for the Computer Forensics data.
  - Production CaseGuard storage – DELL PowerVault ME4024 with a capacity of 45 TB.
  - Computer Forensics storage – DELL ME424 Storage Expansion Enclosure, daisy chain off MD4024.
  - Backup system for CaseGuard (at Municipal Building) – DELL MDI420 with storage capacity of 45 TB.
- The new storage systems would provide the Police Department with reliable storage allowing continued use of CaseGuard with protected backup to electronic evidence off-site.



# COST

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- DELL PowerVault ME4024 with a capacity of 45 TB
  - \$21,355.30
- DELL ME424 Storage Expansion Enclosure
  - \$12,926.12
- DELL MD1420 with storage capacity of 45 TB and PERC H840 RAID Adapter
  - \$19,247.32
- Total Cost \$53,528.74