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# Proposal for Acquisition of Motorola Radios

## 1. Executive Summary

This proposal recommends the acquisition of new Motorola radios to improve communication, safety, and operational efficiency within the Department of the Jail (DOJ). Our current communication equipment is outdated and at times unreliable, which impacts productivity and response times. Upgrading to Motorola's latest radio models will provide reliable, secure, and scalable communication capabilities.

## 2. Background & Current Challenges

- Existing radios were purchased between 2014 and 2018 and suffer from issues: poor battery life, limited range, frequent breakdowns, incompatibility with current technology and Motorola end of life on parts and service on our current 1<sup>st</sup> generation APX 4000'S.
- Growing operational demands require more robust and modern communication solutions.
- Separate stand-alone system makes communication with the rest of the county a challenge. This radio technology will allow us to place the DOJ back on the County operated 800 MHz system full time.

## 3. Proposed Solution

- Procure Motorola APX N70 model radios.
- Features include:
  - Clear audio even in noisy environments
  - Extended battery life
  - GPS/location tracking and AWARE mapping feature for enhanced safety.
  - Digital/analog compatibility
  - Secure encryption for sensitive communication
  - Durable design (water/dust resistant)
  - LTE and WIFI compatibility to work with already installed systems at the DOJ.

## 4. Benefits

- **Improved Communication:** Clear, reliable radio communication across all teams.
- **Safety & Security:** Encrypted channels and emergency alert functions enhance safety.
- **Efficiency:** Faster coordination and reduced downtime.

- **Scalability:** Radios can be added as the organization grows, using a single platform of radio creating continuity of communication.

## 5. Cost Estimate

- 200 units of Motorola APX N70 radios @ \$8,100 each.
- **Total Investment:** \$1,620,000

## 6. Implementation Plan

1. Approval of budget and procurement.
2. Deployment & setup of radios.
3. Staff training.
4. Ongoing maintenance and support. To include Software, Firmware and Hardware updates as required.

## 7. Conclusion

Upgrading to Motorola radios is a cost-effective investment in the DOJ's efficiency, safety, and reliability. We recommend approval of this proposal and allocation of funding to move forward with procurement.

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