



WASHOE COUNTY

Integrity Communication Service

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STAFF REPORT

MEETING DATE: January 15, 2021

DATE: Monday, January 11, 2021
TO: P25 Joint Operating Committee
FROM: Don Thornberry, Washoe County Radio Shop
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THROUGH: Quinn Korbolic, Interim Chief Information Officer, Washoe County
Technology Services
SUBJECT: An Informational update and discussion on the impacts of the
implementation of the P25 Nevada Shared Radio System to legacy radio
equipment currently in use by P25 member agencies.

SUMMARY

Implementation of the Washoe County Regional Communication System P25 Radio system may impact the use of end user equipment. Some legacy radio equipment may not operate correctly or not operate at all on the P25 system. The list below summarizes the possible impacts identified by Washoe County staff. It is recommended that if end-user agencies utilize any of the equipment listed below, the agencies should investigate the equipment's ability to operate on a P25 radio system or replace with P25 compatible equipment.

- 1) In building coverage
 - a. BDA (700/800MHz)
 - b. Distributed Antenna System (700/800MHz)
 - i. Antennas, Splitters, Taps
 - c. Doner Antenna(s) (700/800MHz)
 - d. Polyphaser(s) (700/800MHz)
- 2) Non-P25 capable or Discontinued radios
 - a. Mobile
 - i. 500M, 725M, Orion, M7100, M3300, M7200
 - b. Portables
 - i. 700P, P7100, LPE-200, P5400, P5300, P5100, P7200, Unity XG-100P
- 3) P25 capable radios
 - a. Not Featured correctly for P25
 - b. There is a portion of the contract that covers upgrades however WCRCS Users need to discuss how to implement it.
- 4) Mobile Radios
 - a. Passive DC Noise filter must be removed for P25 operation per TAC

AGENDA ITEM # _____

- i. TSM 7/1/20 Vol: 42 Number: 06
 - b. Potential noise issues on EDACS until cutover
 - i. TSM recommends DC-to-DC converter as possible replacement (Link in TSM)
- 5) Desktop or Dispatch Backup radio
 - a. Donor Antenna (700/800MHz)
 - i. No longer required to be directional
 - ii. Exploring options
 - b. Remotes
 - c. Desktop Cabinet/Station
 - i. There is no direct replacement for the DCS/DDC-100 configuration. CS-7000 can be used in certain configurations or circumstances.
 - ii. Exploring other options
 - d. Polyphaser(s) (700/800MHz)
- 6) Antenna cabling if required due to age/wear & tear
- 7) OTAP via WC WiFi?
 - a. Access point in various locations?
 - b. Access to VIDA network for WiFi?
 - i. Will do experiments to determine
- 8) Things to consider/be aware of
 - a. Drop dead date for changes 30 June 2024
 - b. Should be looking at XL radios vice XG radios
 - i. XG radios only guaranteed support for 7 years after contract
 - ii. Easier to program
 - iii. More capabilities