



WISCOM Policies, Procedures and Guidelines

Index #	301.00
Type	Guideline
Subject	Technical Guidance for Equipment/Infrastructure Purchases
Approved	Draft
Revised	N/A

Purpose

This document provides technical guidance for purchasing equipment for utilization on the Wisconsin Interoperable System for Communications (WISCOM).

Scope

The guideline addresses equipment utilized on the WISCOM. These guidelines do not guarantee interoperability.

Reporting Requirements

There is no routine reporting requirements for this guideline.

Guideline

- A. The following is general guidelines for purchasing radio equipment that may be utilized on the WISCOM. Complying with the guidelines/technical specifications does not guarantee total interoperability with WISCOM. To properly evaluate the radio performance, testing must be performed.
- B. System Compatibility Guidelines
 1. Compliant with current P25 standards
 2. AMBE+2 Vocoder
 3. P25 digital trunking enabled
 4. Provide 512 channel minimum capacity
 5. Minimum capability of 128 control channel
 6. Capable of Alphanumeric Display
 7. 138-174 MHz band spread
 8. Wideband antenna (139-169 MHz or better)
 9. 50 watt (maximum) output
 10. Roaming algorithm that considers RSSI, adjacent site information, noise environment, etc.
 11. Full spectrum control channel scan capability
 12. Preferred site list
- C. All radios must be programmed according to Statewide Mutual Aid Frequency Plan within the Statewide Communications Interoperability Plan (available for download on the Interoperability

website at <http://interop.wi.gov>) with a minimum of 24 narrow banded statewide mutual aid channels and programmed with the appropriate WISCOM talk groups.

- D. Radios are grant funded will use this guideline and these are recommended for consistent purchase across Wisconsin. While radios with less may be allowed on the system, they may have limitations. EF Johnson will only promise that their equipment will perform on WISCOM. Other trunking enabled P25 radios from other manufacturers will go through a credentialing test to ensure their affiliation on the system will not adversely impact the system.