## CoMIRS Radio Feature Requirements

The Commonwealth of Massachusetts Executive Office of Technology Services and Security (EOTSS) is engaged in a multi-year project to modernize the Commonwealth of Massachusetts Interoperable Radio System (CoMIRS). The project will be accomplished in stages utilizing both legacy SmartNet CoMIRS subsystems and new P25 subsystems during the build-out.

The fundamental goal of the CoMIRS Modernization Project is to provide a reliable, long-term P25 TDMA compliant communications tool for public safety personnel to communicate seamlessly across public safety disciplines and operational jurisdictions.

To ensure that CoMIRS user radios function appropriately throughout the modernization project stages and after completion, the Interoperable Communications Bureau (ICB) developed a list of required and recommended features for all CoMIRS subscriber radios.

As of **May 1, 2021** all radios submitted for provisioning on CoMIRS must include the **required** features shown below.

In limited circumstances the ICB will consider requests for exemption from this requirement. Written requests for exemption must be made to CoMIRS@mass.gov prior to purchasing radios or submitting radios for provisioning.

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|---|---|
| 1. 700/800 MHz Operation (764-870 MHz) <br> 2. Portable radio output power 1-3 watts <br> 3. Mobile radio output power 10-35 watts <br> 4. Base radio output power 10-35 watts <br> 5. Minimum 1,000 mode capacity <br> 6. Minimum 14-character backlit display <br> 7. Zone programming with 16 modes per zone (mixed trunked talkgroups and conventional channels) <br> 8. Operation on Conventional Systems (Analog and P25 Phase 1 modulation) <br> 9. Operation on Motorola SmartZone Type II Trunking Systems (Analog and P25 Phase 1 modulation) <br> 10. Operation on Project 25 Digital Trunking Systems (Phase 1 FDMA and Phase 2 TDMA modulation) <br> 11. Project 25 Radio Authentication | Required |
| 12. Project 25 GPS Location Services and <br> 13. Project 25 Over-The-Air-Programming <br> 14. Bluetooth Capability <br> 15. Operation with digital vehicle repeater system (If DVR is utilized) | Recommended |

## CoMIRS Encryption Standard

**Encryption is not required. If CoMIRS user chooses to implement encryption, the P25 standards below are required.**

- Project 25 AES 256-bit encryption with multiple keys and Over-the-air-rekeying