

Topics:

[Radio \[1\]](#) **Radio Communications - Public Safety [1]**

SO-04-005 Radio Communications ? Public Safety

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PURPOSE

To prescribe an enterprise Public Safety Radio Services standard for the development and implementation of a statewide radio communications system that will provide interoperability among state and local government Public Safety agencies. The goal is to provide the radio communications capabilities for Public Safety government agencies to perform their missions in any given situation.

SCOPE

This standard is applicable to Public Safety agencies to provide interoperability communications by voice or data with each other in various environments and scenarios under Homeland Security. Public Safety agencies are those organizations that have the responsibility of protecting life and property such as police, fire, emergency medical, emergency management and other organizations that enforce state or local government laws. This standard is optional for non-public safety agencies. All Agencies as that term is defined in O.C.G.A. Section 50-25-1(b)(1).

STANDARD

- The enterprise public safety radio service shall meet all applicable ANSI/TIA/EIA-102 standards. This includes both infrastructure and subscriber equipment. Specific ANSI/TIA/EIA 102 standards include:

OSI Physical Layer and Data Link Layer

ANSI/TIA/EIA 102.BAAA, *Project 25 FDMA Common Air Interface*, May 1998. The objective of the common air interface is to ensure that subscriber unit equipment that conforms to this document will be interoperable at the Physical Layer and Data Link Layer with subscriber unit equipment from different manufacturers, and compatible with radio systems for different agencies.

Analog to Digital Conversion

ANSI/TIA/EIA 102.BABA, *Project 25 Vocoder Description*, May 1998. This document describes the functional requirements for the transmission and reception of voice information using the digital communication media described in the Common Air Interface, ANSI/TIA/EIA102.BAAA. This standard is specifically intended to define the conversion of voice from an analog representation to a digital representation that consists of a net BIT rate of 4.4 kBPS for voice information, and a gross BIT rate of 7.2 kBPS after error control coding.

Modulation and Demodulation