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# The U.S. Public Safety Interoperability Standard

## A Standard for Public Safety Interoperability Exists

Project 25 (sometimes called P25) is a suite of standards that provides the basis for interoperable digital radio voice and low-moderate speed data communications among multiple public safety users, departments and agencies. These standards were developed jointly by public safety users and multiple radio manufacturers, and published by the Telecommunications Industry Association (TIA). TIA is accredited by the American National Standards Institute (ANSI).

Unlike many other communications standards and technologies in the broader wireless industry, public safety user mission critical requirements drove the development of the P25 suite of standards. Key focus was given to public safety operational requirements including a graceful migration path from current analog to new digital systems, improved spectral efficiency and multi-vendor equipment offerings. Radios that meet the P25 standard incorporate backward compatibility with conventional analog systems. Project 25 radios communicate in analog mode to analog radios, and either digital or analog modes with other P25 radios.

P25 is the only U.S. digital wireless standard based on public safety mission critical requirements. Other digital technologies and products developed primarily for the general consumer use, trades such as construction and even government administrative operations offer effective communications for those applications, but are not designed for public safety mission critical requirements.

## Project 25 Has Broad Support

Project 25 has received the endorsement of the National Association of State Telecommunications Directors (NASTD), the Association of Public Safety Communications Officials - International (APCO), APCO-Canada, the International Association of Chiefs of Police (IACP), the International Association of Fire Chiefs (IAFC), the National Telecommunications and Information Administration (NTIA), the American Association of Railroads (AAR), and others.

Based on public safety user recommendations, the FCC chose the Project 25 suite of standards for voice and low-moderate speed data interoperability in the new nation-wide 700 MHz frequency band. Every 700 MHz radio must include Project 25 compatibility defined by the TIA/ANSI standard. P25 has also been endorsed by the US Department of Defense for new LMR (Land Mobile Radio) radio systems.

Public safety users have the option to choose P25 products from multiple vendors. The Project 25 web page lists 15 manufacturers, serving the public safety and defense markets, who offer P25 radios and P25 radio system products (<http://www.project25.org/pages/manufacturers.htm>).

JONES ▽ VARGAS

February 4, 2003

DENICE L. MILLER  
DIRECTOR OF PUBLIC POLICY

1014

ASSEMBLY JUDICIARY

DATE: 2/10/03 ROOM: 3138 EXHIBIT J

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Proposed amendment language to AB 441

**Legislative Intent Language:**

Page 2, Sec.2, subparagraph 6(d), Line 34 after the word "among" insert "state and local"

**Definition of System of Communication:** The bill as introduced doesn't define System of Communication.

Page 3, add a new Sec. 9. "System of Communication" includes, without limitation, public safety radio systems and telecommunication systems.

Renumber to conform.

**Standards Language:**

Page 6, Sec. 17, paragraph 5, Line 43, insert: "Purchases of interoperable radio communications equipment under this act shall meet the public safety digital communications standards in Suite 102 and successor suites of the American National Standards Institute and the Telecommunications Information Association."

**State Funding Source:**

Page 7, Sec. 17, add a new paragraph 6. Insert "Identify and recommend to the Governor and the State Legislature potential state funding sources to pay for the implementation and upgrading of information systems and systems of communication."

Renumber to conform.

**Directing Federal Funds:**

Page 7, add a new Sec. 21 "State Homeland Security Block Grant Program funds and other federal funds received by the State of Nevada may be used to help fund the implementation and upgrading of information systems and interoperable public safety communication systems."

Renumber to conform

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**MANUFACTURERS CURRENTLY WITH PRODUCTS  
SUPPORTING PROJECT 25**

**Daniels Electronics  
Datron World Comm  
DTC Communications  
Digital Voice Systems Inc. (DVSI)  
Kenwood Communications  
E.F. Johnson Radio  
IFR Systems  
King Communications USA  
M/A-COM Open Sky  
Motorola Inc.  
RELM Wireless / BK Radio Inc.  
Technisonic Industries  
Thales Communications; formerly Racal  
Wulfsberg Electronics  
Westel Wireless Ltd; formerly ADI Ltd.**

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**Forty-Eight Manufacturers Have Signed the APCO  
Intellectual Property Rights (IPR) Memorandum of Understanding  
(MOU)**

**ADI Limited  
Alliant Techsystems  
Avtec  
APREL Labs  
Aware Inc.  
CML Technologies  
COMARCO  
ComNet/Ericsson  
Cycomm Corp  
Daniels Electronics Ltd  
Datron World Communications  
DVSI Inc  
DTC Communications  
Digital Receiver Technology  
E.F. Johnson/Transcrypt Intl.  
GARMIN  
GEC-Marconi Ltd  
Glenayre Electronics  
ICOM America  
IFR Systems  
Interoperable Wireless  
JPS Communications  
Kenwood Communications  
King Communications USA  
M/A-COM Open Sky  
Midland USA  
Motorola  
Modular Communications Systems  
Nortel Networks  
Nokia  
NTT America  
Orbacom Systems  
Racal Communications  
Relm Wireless / BK Radio  
RITRON  
SEA Inc.  
Simoco Europe Ltd.  
Safetran Systems  
Securicor  
Standard  
Tait Electronics  
Technisonic Industries Ltd.  
US Tech  
WABCO Railway Electronics  
Wulfsberg Electronics  
Zetron**

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