



International Association of Chiefs of Police

Chicago, Illinois
October, 2015

Project 25 Update for 2015

Presented by: Del Smith, Chairman
Project 25 Technology Interest Group

www.project25.org

Who is the Project 25 Technology Interest Group (PTIG) ?



- **A non-profit Industry Association made up of P25 Product and Service providers, P25 Users/System Operators, P25 Consultants.**
All members are supporters of Project 25 technology, nurturing Project 25 adoption, growth, and expansion.
- **What do we do:**
 - Manage education and training on Project 25
 - Create and distribute Project 25 information.
 - Offer Users access to the standards process without the rigor of TIA membership
 - Maintain a “neutral ground” among the competing manufacturers and providers

Set your browser to **www.project25.org**



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Wednesday, October 7, 2015

NEWS & EVENTS | PURPOSE | TECHNOLOGY | COMPLIANCE ASSESSMENT | MEMBERSHIP | PRODUCTS | DOCUMENTS

WYO LINK

The Latest News

- NEW Project 25 System of the Month: Lexington KY
- Improved Interoperability through the P25 ISSI and CSSI Interface.
- Project 25 Technology

Upcoming Events

International Association of Chiefs of Police Chicago IL
October 24 - 27, 2015

TIA TR-8 P25 Standards Meetings, Austin TX
October 27 - 29, 2015

IWCE 2016, Las Vegas NV
March 21 - 25, 2016

PTIG Website Login

Welcome to the Project 25 Technology Interest Group

The Project 25 Technology Interest Group (PTIG) brings you this web site to provide information on all topics concerning Project 25.

Please register on the site for access to additional information. If you previously registered prior to June 2010, a new registration is required. This is to assure we have current and accurate information.

Registration is required to maintain a spam free site for you. No Fees are required for website registration.

PTIG MEMBERS NOTE: When your individual registration is validated for affiliation to a paid membership or a commercial member company, your registration will provide member access privileges.

Use the dialog box titled "Contact Us" on the home page for any inquiries about registration and membership.

This site is the official home of PTIG and our P25 community. Your suggestions and comments are always welcome. Use the dialog box titled "Contact Us" on the home page to make your suggestions, offer comments, or seek more information.

P25 System of the Month	P25 Steering Committee Approved List of Standards
P25 Frequently Asked Questions	P25 Feature Translator
P25 Standards latest Update	List of P25 Phase 1 Systems
P25 Capabilities Guide	List of P25 Phase 2 Systems



Resources Available: www.Project25.org

- **P25 Frequently Asked Questions**

Written to dispatcher, officer, firefighter (non technologist) level

- **P25 Capability Guide**

List of Project 25 Capabilities (features) covered by the Standard

- **P25 Standards Update Summary**

Summary of the latest P25 Standards Meetings with user benefits defined

- **P25 Feature Translator**

link to NPSTC PAM tool

- **Project 25 List of Systems: P25 Phase1, P25 Phase2**

Organized by State with frequency band info. Over 700 P25 Systems on the air today

- **Project 25 System of the Month**

P25 Interoperability highlighted by New System of the Month Feature. This month: Lexington , KY

P25 System of the Month: Lexington KY



With Lexington’s new P25 system, police, fire and corrections personnel—as well as the Blue Grass Airport—can effortlessly communicate across departments to collaborate. Even more, the open standards infrastructure provided Lexington the flexibility of open procurement. Open procurement meant that each agency could select the radio brand and model that worked best for them, instead of being limited to a single vendor. Ultimately through this process, Lexington built a seamless Project 25 system—and at the right price for each agency involved.

P25 Pager Now Available



- **Unications USA** has joined the Project 25 Technology Interest Group. They have developed a new Project 25 pager.
- Principals are: Kirk Alland Vice President and GM, kirk@unication.com; Vic Jensen, vic@uniamericas.com; Kelly Hooper kelly@unication.com



P25 Standards Update

Completed in 2015 as of TIA/TR-8 meetings Seattle June 2015



Data

- **A revision of the Tier 2 Location Standard** was approved for publication. *The Standard was clarified to prevent interoperability issues as an increasing number of vendors implement P25 Location Standard Data applications.*

Air Interfaces

- **A revision of the Trunking Control Channel Messages Standard** was approved for publication. *The revision corrects several errata that have been noted since the last publication.*
- **A revision of the Link Control Word Formats and Messages Standard** was approved for publication. *The revision corrects several errata that have been noted since the last publication.*
- **A revision to the Trunking Procedures Standard** was approved for publication. *This revision updates the procedures associated with Trunked Data.*
- **A revision of the 2 Conventional Conformance Test Standards; Basic and Advanced** were approved for publication. *The revisions update the list of standard references and correct some errata noted since the last publication.*
- **A revision of the Conventional Procedures Standard** was approved for publication. *This revision updates the procedures associated with Conventional Data and a number of errata comments that have been noted since the last publication.*

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Compliance Assessment Bulletins (P25 Testing Documents)

A revision to multiple RCATs were approved for publication. This includes:

- RCAT for Trunked Interoperability (FDMA and TDMA tests)
- RCAT for TDMA Voice Channel Air Interface (performance and Performance tests)
- RCAT for Conventional Mode Fixed Station Performance
- RCAT for Conventional Mode Subscriber Performance
- RCAT for Trunked Mode Subscriber Performance
- RCAT for Trunked Mode Fixed Station Performance
- RCAT for FDMA Trunking Interoperability testing was also revised to include Trunking Conformance test recommendations.

These documents have been provided to the P25 Steering Committee with a recommendation that they forward to the DHS Compliance Assessment Program Governing Board for their consideration as input to future Compliance Assessment Bulletins.

P25 Standards Update

Completed in 2015 as of TIA/TR-8 meetings Seattle June 2015



Work in Progress:

A revision to the TIA-102 Documentation Suite Overview is in progress. *This update intends to keep the document current with individual document updates that have occurred since the last publication of the Overview.*

Security

- **Link Layer Encryption** is in progress. *This is the first big new technology upgrade for improved Security for all air interfaces of P25. It protects control channel control messages, and hides group and individual IDs.*
- **An addendum to the Key Fill Interface standard** is in progress. *This will enable Key Fill Device (KVL) interface to a KMF, an Authentication Facility and another Key Fill Device*
- **A revision to the OTAR Interoperability Test Standard** is in progress. *This revision will align the Interoperability tests with the revised Messages and Procedures Standard.*

Data

- **A revision to the Data Overview and Specification and the Radio Management Protocol** documents is in progress. *These revisions address errata and align content with the other recently revised Data documents.*

P25 Standards Update

Completed in 2015 as of TIA/TR-8 meetings Seattle June 2015



Work in Progress:

Wireline Interfaces

- **An addendum to the ISSI Messages and Procedures Standard** is in progress. *The revision corrects several errata that have been noted since the last publication.*
- **A revision to the Fixed Station Interface Standard** is in progress. *This revision adds additional capabilities the most significant of which is Packet Data.*

Air Interfaces

- **A revision to the FDMA Common Air Interface Standard** is in progress. *This revision addresses errata that have been collected since the last publication.*
- **A revision to the Trunking Interoperability Test Standard** is in progress. *This revision merges the FDMA and TDMA material and address an error in a call pre-emption test procedure.*
- **A revision to the FDMA, TDMA and Analog Air Interface Performance Measurement Method Standards** is in progress. *These revisions will ensure that harmonics present in Class D amplifiers do not interfere with various audio measurements.*

P25 Standards Update

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Work in Progress:

Broadband

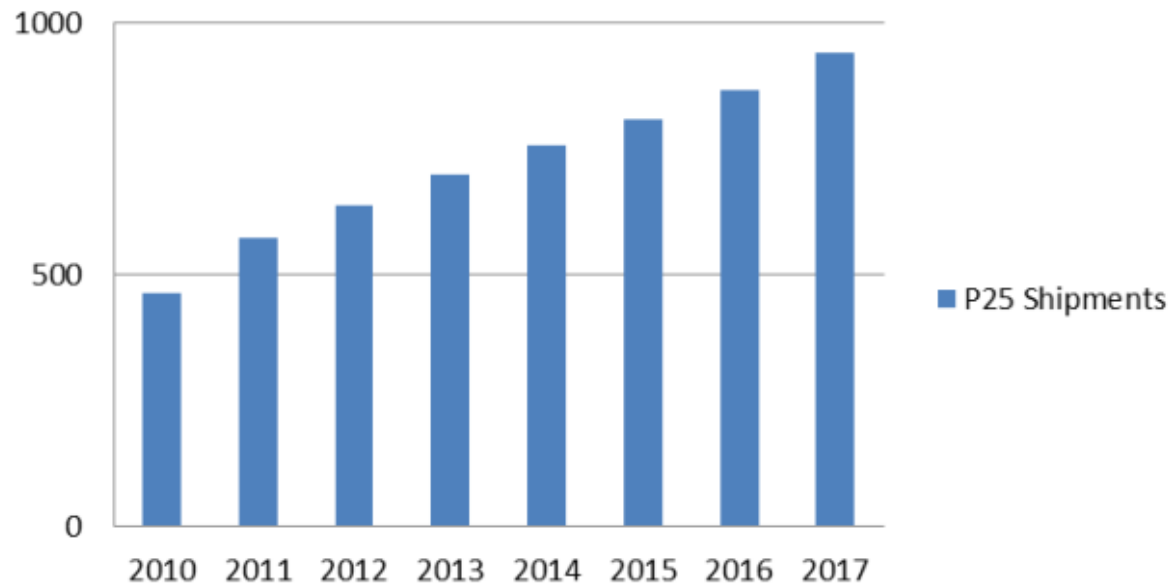
- **Public Safety requirements for Broad Band Data/LMR Interoperability** is in progress in a joint ATIS/TR8.8 effort. *This is the beginning of work to create the requirements for interworking of Broadband and Existing P25 LMR systems. This effort is currently on hold pending advancement of the 3GPP Mission Critical services architecture.*
- **Additions to TSB88** is in progress. *These additions will create recommendations for Broadband Data System coverage modeling and verification.*



Next 3 Years: P25 growth to continue

- The “Push” to digital migration continues
- Need for additional capacity in urban areas (TDMA)
- Need for wide area systems (Phase 1 and Phase 2)
- P25 Momentum, it’s the “interoperable technology”

P25 Shipments



Forecast P25 Radio Shipments

Data Courtesy of: IHS Technology - Critical Communications Division

Project 25 and the User



- **Project 25's influence continues to expand**
 - Deployed in over 83 countries
 - Currently 34 companies provide a P25 product or service
 - Flexible/Interoperable system architecture from single site conventional to state wide trunked systems with 100,000 users
- **Project 25 continues to develop**
 - New technologies are being added
 - User input is critical to the success of the standards
 - Ongoing updates and clarifications to the P25 Standard improve interoperability
- **User participation is required**
 - Project 25 Technology Interest Group, TIA TR-8 User Needs Committee

Q & A

