NPSTC General Meeting in Washington DC
September 29, 2016

Project 25 Technology Interest Group (PTIG)
Update for 2016

Presented by:
Stephen Nichols, Director PTIG
www.project25.org
Welcome to the Project 25 Technology Interest Group

The Project 25 Technology Interest Group (FTIG) 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 to make your suggestions, offer comments, or seek more information.

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.

What is Project 25?

Project 25 (P25) is the standard for the design and manufacture of interoperable digital two-way wireless communications products. Developed in North America, P25 is now an international standard.

Why P25?

Project 25 enables successful fulfillment of these factors so critical to public safety operations and use of two-way radio communications in the field.

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<th>List of P25 Trunking Systems</th>
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<td>P25 Feature Translator</td>
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<th>P25 Capabilities Guide</th>
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P25 Foundations and P25 User Experience IWCE PPTs now available
MissionCritical Communications Publishes P25 E-Book
PTIG Publishes Updated Frequently Asked Questions (FAQ) Resource v1.3
Project 25 Testing Update Report by Compliance Testing LLC
Project 25 Technology Interest Group Elects a New Board of Directors and Officers for 2016-2017

Upcoming Events

P25 Standards Meetings TIA TR 88 Philadelphia PA October 18 - 20, 2016
IWCE 2017 Las Vegas NV March 27 - 31, 2017
New Documents available at www.Project25.org


– PTIG offers the FAQ tool to Public Safety and government users who need to deliver a simplified, top level, answer to typical P25 questions received from non-technologist personnel including Police Officers, Fire fighters, administrators, procurement contracting officers.

– This Updated FAQ document has 14 new questions and significant changes to P25 testing questions reflecting input from the recent Compliance Assessment Program (CAP) open meeting.

– The document has been reconfigured to categorize the questions by topic making the document easier to use for quick reference.

The document has been reconfigured to categorize the questions by topic

• **P25 Standards Overview**, including a question on how the P25 Standards are created.

• **P25 Compliance testing** has been updated to reflect the latest DHS OIC Web links and document availability.

• **Benefits of P25**

• **Relationship of P25 to other radio technologies**

• **Interoperability** possible through the numerous Project 25 interfaces

• **Multi-Vendor P25 solutions** with real world examples of existing systems

• **Project 25 Security Services** available.


Examples of P25 FAQ Questions.

– How do I find which operational requirements and features are covered in the P25 Suite of Standards?
– What is the status of the P25 Phase 2 Standard suite?
– What are RCATs?
– A new P25 system is building out in my region. I have a P25 radio, how do I get access?
– Why do we have a P25 system but my system operator says we can only buy one brand of radio?
– Does the future FirstNet LTE broadband data network make P25 obsolete?
– What is the range comparison between P25 digital and narrowband analog?

- List of known P25 Systems in the USA, Australia, Canada, New Zealand, and the UK.
- The significant change to this update is the addition of a new list of P25 Conventional systems. The P25 Conventional systems total is 1299.
- The P25 Trunking system list has grown from 711 systems last November to 842 systems today.
- **The grand total is 2141 Project 25 Systems from both lists combined.**
- Both P25 systems lists are organized by state, and territory.
- Information: System name, System user type (Federal, Tribal, Public Safety, Utility, Campus Police etc.), and Frequency band.
- P25 Trunking systems are identified as P25 Phase 1 or P25 Phase 2.
- P25 Conventional systems are identified as digital only or mixed mode analog and digital.
New Documents available at www.Project25.org


Trunking System List Format

<table>
<thead>
<tr>
<th>STATE</th>
<th>SYSTEM NAME</th>
<th>P25 Phase</th>
<th>P25 Phase</th>
<th>Comments</th>
<th>System User</th>
<th>Freq. Band</th>
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<tr>
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<td>Alabama Regional Communications Sys</td>
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<td>1st Responders</td>
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<td>Dothan</td>
<td>Phase 1</td>
<td></td>
<td>Public Safety</td>
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<td>DOD</td>
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<td>Fort Rucker</td>
<td>Phase 1</td>
<td></td>
<td>DOD</td>
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<td>Public Safety</td>
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</table>
New Documents available at www.Project25.org


Conventional System List Format

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<td>Law Enforcement</td>
<td>800</td>
</tr>
</tbody>
</table>
New Documents available at www.Project25.org


Frequency Bands in Use for P25

Project 25 Conventional Systems

- UHF 18%
- VHF 77%
- 800 MHz 5%

Project 25 Trunking Systems

- 800 Mhz 41%
- 700 MHz 10%
- 700/800 MHz 6%
- 900 MHz 1%
- UHF 34%
- VHF 8%
New Documents available at www.Project25.org


User Categories for P25

**Project 25 Conventional Systems**
- Public Safety: 67%
- Federal: 23%
- Military: 4%
- Schools/Univ: 2%
- Other: 2%

**Project 25 Trunking Systems**
- Public Safety: 60%
- Federal: 13%
- Military: 16%
- Airport/Trans: 3%
- Utilities: 3%
- Other: 3%
- Industrial: 2%

- **P25 Capability Guide**
  
  *Added Infrastructure interfaces and links to Statement of Requirements. Remains the best tool for managing P25 features and capabilities for system planning and RFP development*

- **P25 Standards Update Summary**
  
  *Summary of the latest TIA TR-8 P25 Standards Meetings with user benefits defined*

- **P25 Steering Committee Approved List of Standards**
  
  *Updated from the most recent P25 Standards meeting*

- **P25 Feature Translator**
  
  *link to NPSTC PAM tool*
Recent PTIG P25 Whitepapers at www.Project25.org

• Now is a good time to revisit the use of P25 technologies on the Fire ground

  Benefits of using P25 mission critical radio equipment include:
  Improved performance in background noise, Tone Signaling – DTMF, Knox and single tone is now supported, P25 Paging receivers are now available, Improved Coverage, Enhanced Signaling, Location Services.

• Benefits of P25 (Update)

  Over the years, the most often selected article on the Project 25 website, www.project25.org, is the one describing Technology Benefits of P25. This article has been recently updated to include the new wireline interfaces (ISSI, CSSI, FSI) and new operational capabilities recently added to the P25 suite of standards.

  The Whitepaper covers the background and history of the P25 Standard, original goals and objectives, a summary overview of the standards and how they translate into benefits for the Public Safety community.
Other News at www.Project25.org

• Project 25 Testing Update Report by Compliance Testing LLC

  The Project 25 Technology Interest Group welcomes Compliance Testing LLC as a new Commercial member of PTIG. Compliance Testing LLC has prepared a report detailing the P25 Testing Update presented by DHS OIC and the Compliance Assessment Program Advisory Panel at their open meeting held during the APCO 2016 conference in Orlando.

• Project 25 Technology Interest Group Elects a New Board of Directors and Officers for 2016-2017

  The Project 25 Technology Interest Group (PTIG) held its Annual Meeting on August 14th. At that meeting, a Board of Directors and Officers were elected. A number of new Board members were elected from the Public Safety Radio User Community. These include: Christie Bielby-Texas DPS, Scott Wright-State of Connecticut, Brent Finster-University of Hawaii. Todd Perdieu from Harris was elected as a new Commercial Board member.

• P25 Standards Meeting TIA/TR-8 Summary, June 2016

  The Project 25 Technology interest Group (PTIG) has published the latest summary of P25 Standards Meetings proceedings from the June Meetings held in Kansas City. This document highlights TR-8 accomplishments and work in progress for 2016. The document is updated after every TR-8 face to face meeting occurring in 2016.
Steve Nichols, Director
Project 25 Technology Interest Group

director@project25.org