New P25 Products and Services
2022

Project 25 Technology Interest Group (PTIG)
www.project25.org
APX NEXT XN & XVN500
All-band P25 Smart Radio & Radio Speaker Mic
VHF, UHF, 7/800, GPS, WiFi, Bluetooth, LTE

What is New

• Offering the new platform of public safety applications introduced with APX NEXT in a more ruggedized design with exaggerated controls for gloved use
• The radio and RSM are built to the latest fire industry standards for operation in the most extreme environments

P25 Interoperability Solution

• FDMA and TDMA P25 Air Interface interoperability as well as LTE

Benefits to Public Safety

• Firefighters can keep eyes up and focus forward with intuitive ergonomic design and voice control, even in extreme conditions
• Always stay connected by automatically switching between LTE and LMR based on coverage. All P25 features stay intact.
• Continuously transmit location data over LTE
• Keep devices in the field longer by implementing updates over LTE
L3Harris XL EXTREME™ 400P Portable Radio
VHF, UHF, 7/800, GPS, Wi-Fi, LTE, Bluetooth

WHAT IS NEW
- Built to the toughest industry standards for operation in extreme environments
  - Heat resistant seals and display to withstand temperatures up to 500°
  - Ruggedized against damage from 3-meter drops, salt water and humidity corrosion
- Provides advanced ergonomics for fireground operation
  - Larger emergency button and optional in-building location capability
  - Top display with unique visual zone coding
  - Color tagging and audio playback for the last 5 calls

P25 INTEROPERABILITY SOLUTION
- Multiband P25 operation in VHF, UHF, 7/800
- CAP certified, field-proven P25 interoperability
- Converged P25, Wi-Fi and LTE technologies

BENEFITS TO PUBLIC SAFETY
- Keep everyone connected in extreme fireground conditions
- Enhance PTT coverage & simple device management over LTE networks like AT&T® and Verizon®
- Loud and clear audio with industry-leading noise cancellation
L3Harris XL CONNECT™ 95P Portable Radio
700/800MHz, GPS, Wi-Fi, Bluetooth

WHAT IS NEW
- New Connect Series: Expands XL platform into the value tier
  - XL Series Dynamic User Interface and crisp color display
  - Voice and Device Management over Wi-Fi
  - Color tagging and audio playback for the last 5 calls
- Top performance and advanced P25 Feature set
  - Superior RF performance and powerful 3.8W max audio
  - The right P25 features at an affordable price

P25 INTEROPERABILITY SOLUTION
- CAP certified, field-proven P25 interoperability
- Converged P25 and Wi-Fi technologies
- Multimode solution supports P25, analog, and EDACS®

BENEFITS
- Communicate from just about anywhere without ever leaving your system with PTT over Wi-Fi
- Private communications with encrypted voice
- Loud and clear audio with industry-leading advanced noise cancellation
What is New

- Tier 1, 2 and Tier 3 Models
  - Tier 1 Top display only, no keypad
  - Tier 2 Top & front display, nav keypad only
  - Tier 3 Full alphanumeric keypad
- Longer Battery Life
  - High capacity Li Ion pack
  - AA Alkaline tray with >16hrs battery life
- Large Bright Color Display and Top display
  - Gorilla glass
- Integrated Bluetooth Operation

P25 Interoperability solution

- P25 CAP Performance Class A
  - Trunked & Conventional
  - Interoperability with Motorola, L3Harris, Tait/Zetron

Benefits to Public Safety

- Large Controls for use with heavy gloves
- IP68 Ruggedized housing in Black or Optic Yellow
- Long popular BK Technologies cloning capability
- NIST FIPS140 2, Level 2 compliant
- NIFC/DOI approved

https://www.bktechnologies.com/product/bkr-5000-portable-radio/
What is New
• Class I Division 1 - All Gas Groups A, B, C, D
• Class II Division 1 - Dust Groups F, F, G
• Class III Division 1 - Fibres and Flyings

P25 Interoperability solution
• Conventional Analog
• P25 Conventional Digital
• P25 Phase 1 & 2 Digital Trunking
• AES Encryption and OTAR

Benefits to Public Safety
• Tait GeoFencing
  • Automated Location Controlled Radio Behavior
• Industry leading fleet management application
• Choice of colors for easy identification
• Tait Tough IP68, IP65 and MIL-STD-810 G

TP9468 Intrinsically Safe P25 Portable
What is New

- IP Routing: WiFi-to-Cellular, Ethernet-to-Cellular, Ethernet-to-WiFi
- Voice Recording app
  - Record ALL voice traffic including off-network simplex calls
- Remote app for Apple iOS and Android devices
  - Make and receive radio calls from smartphones and tablets
- Broadband Data:
  - WiFi: 2.4GHz, 5GHz

P25 Interoperability solution

- Based on CAP certified TM9400 with field proven P25 interoperability
- Open standards WiFi & LTE data connectivity

Benefits to Public Safety

- Turn your vehicle into a communications hotspot, boosting the range of connected smart devices, and productivity for the people using them.
NEW Kairos P25/DMR Multi-Protocol System

- Multi-Protocol (Analog, DMR & P25)
- Multi-mode (Analog/Digital) operation
- Fully IP-based distributed network architecture
- Single site, Multi-site conventional & Simulcast solutions
- Compact, Rugged, Small footprint
- Low power consumption
- Hot standby repeater offering
- Powerful remote control & monitoring
- Soft diversity receiver
- Seamless system upgrades (no need to change hardware)
- System redundancy
New Multi-Mode TETRA-P25 Radios

What is New

• Dual-Mode TETRA-P25 selectable through the user menu.
• FCC certified 764-869 MHz (except NPSPAC 806-809/851-854 MHz).

P25 Interoperability solution

• P25 CAP certified for nationwide interoperability channels.
• Fully compliant with requirements set forth in Feb 12, 2018 FCC Report & Order governing 700 MHz band.

Benefits to Public Safety

• Cellphone-like speech quality, background noise cancellation, GPS data, Image App.

http://www.powertrunk.com
What is New

• Voice log archives with GPS metadata and mapped RSSI analysis with Radio Discovery Tool (RDT)
• Hardware based advanced system key (ASK)
• Enhanced talkgroup scanning (up to 32 talkgroups with user selectable priority modes)
• Receive only talkgroups prevent unauthorized transmissions

P25 Interoperability solution

• VHF, UHF and 700/800 MHz models
• Conventional Analog FM/P25/Mixed-Mode and P25 Phase 1 (FDMA) and Phase 2 (TDMA) trunking
• AES/DES Encryption with Over-the-Air Rekeying

Benefits to Public Safety

• Small lightweight and concealable for surveillance and tactical operations and smaller vehicle installs
• Recorded voice log archives with GPS metadata show when and where voice calls were made and can help identify interference issues
• Diagnostics with mapped RSSI analysis values can show lack of coverage where coverage was expected

What is New

• Tactical Mixed Mode repeater
• Rugged Extremely Compact Housing
• All P25 Network Interfaces available

P25 Interoperability solution

• Supports IP/H.F. & Satellite Backhauls
• Interfaces with FSI (BAHA)+CSSI+ISSI (Phase One & Two)

Benefits to Public Safety

• Deployable P25 Repeater for Emergency Communications

www.etherstack.com
What is New

- New optional GPS Driven Deactivation Feature for Futurecom Vehicle Repeaters (DVR-LX® & VRX1000)
- Automatically deactivates a VR when speed & distant threshold are met.

P25 Interoperability solution

- P25 Coverage extension

Benefits to Public Safety

- Allows first responder to focus on job ahead
- Allows for an active vehicle repeater to be moved around a scene

New P25 Vehicle Repeaters

Company Website
http://www.futurecom.com
P25 New Product for IWCE 2022
RT-7000 Airborne Communications System

What makes it Unique

Flexible, Modular, Scalable – Panel Mount and Remote mount radios available – start with 3 and expand to 6 modules control via Remote Control display Unit or Panel display

- ** Software-defined radio (SDR) with touchscreen display**
  - Display is NVIS compliant to MIL STD 3009 with a best-in-class man machine interface – developed with public safety first responders and pilots
  - Resistive touchscreen glass interface that works with flight gloves or PPE.
  - No Recessed buttons to clean or clog, 1000 NIT display with 170° viewing angle
  - Integrated code plug search function, integration with Augmented reality or glass cockpit

- **Modular design** - future proofs aviation assets with three available communications modules custom configurable to meet your mission needs - additional modules in development

1. **Wide Band Transceiver** – 29.7-960 MHz P25 Compliant – Compact design, Continuous solution in ONE module. 118 - 136 MHz ATC bands TSO C169a Approval
2. **Motorola APX 8000 Module** – P25 Phase 1 & 2, Motorola feature sets, encryption, & all bands or a la carte.
3. **Search and Rescue** 121.5 MHz, 243.00 MHz 156.8 MHz (Marine 16) & 156.525 MHz FSK (DSC channel 70)
   - Relay, simulcast, and relay/simulcast
   - Built in connectivity for two (2) external handheld radios – no external interface required

**P25 Interoperability solution**

- All P25 Bands Common Air Interface (CAI), Phase I, II Trunking
- 29.7 – 960 MHz Common Air Interface (CAI) AES Encryption
- P25 VHF – 6W Min UHF – 5W Min 700/800 MHz – 3W Min
InterTalk Cloud Dispatch

What is New

• Enlite™ is a first-to-market dispatch solution in North America
• Offers a public-safety-grade dispatch console, utilizing Hosted technology
• Enlite™ provides P25 connectivity in the field via mobile-connected devices

P25 Interoperability solution

• Connect Enlite™ dispatch console to P25 via DFSI or CSSI/ISSI
• Convergence of analog radio, P25, LTE, call-taking capabilities, and more
• Allows the user to extend their P25 network over Wifi, LTE, or satellite connections

Benefits to Public Safety

• Empower your P25 system to create seamless communications across multiple devices
• Enhance situational awareness and operational intelligence
• Reduce hardware footprint and cost, making Enlite™ affordable for virtually any agency

www.intertalksystems.com
What is New
IP-3000 series desktop consoles supporting optional P25 CSSI and DFSI connections with AES-256 encryption.

P25 Interoperability Solution
When coupled with IP-224’s and donor control stations, P25 and non-P25 channels can be cross-patched between agencies.

Benefits to Public Safety
Best ROI for P25 solutions and use of public funds.
Remote configuration and management
What is New

- Works the Way You Do with the Next Generation Dispatch Experience
- Retain Your Focus with Cross Platform Integration Capabilities
- Connect to Multiple Communication Platforms Simultaneously
- Experience Pain Free Enhancements

P25 Interoperability solution

- Seamless Multisystem (P25, MOTOTRBO, Analog, Firstnet) Access

Benefits to Public Safety

- Improves Ease of Learning
- Eliminates New User Frustration and Burnout
- Improves Speed and Efficiency
What is New

- Interoperability between P25 land mobile radio systems
  - ASTRO 25 to ASTRO 25, ASTRO 25 to other P25 systems, ASTRO 25 to broadband PTT
- Seamless communication between users on different networks
  - Voice, Location and Messaging

P25 Interoperability Solution

- Critical Connect ISSI First to Achieve P25 CAP Compliance

Benefits to Public Safety

- Easier to Share Information Between Agencies
- Improved Collaboration
- Greater Situational Awareness
What is New

- Reliable P25 call processing in the cloud
- Another backup choice for wide-area P25 communication systems
- Built-in secure government cloud on US soil

P25 Interoperability Solution

- Seamless integration with existing P25 radio systems

Benefits to Public Safety

- Backup protection without the civil engineering and cost of another site
- Preserve wide-area communication, even in the event of a catastrophic loss
- Maintain operational control and visibility
- No maintenance and always up to date
CirrusCentral Management
The Future of P25 System Management

What is New
- Intuitive and streamlined user interfaces
- New and powerful tools to provide deeper insights into P25 system operations
- Built in secure government cloud environment located on US soil

P25 Interoperability solution
- Ingests and analyzes data directly from P25 systems
- Ability to monitor and manage multiple zones for large scale P25 systems

Benefits to Public Safety
- Get the right level of insight you need for informed decision making - from a single dashboard view to detailed trends and usage data reports
- Quickly identify and troubleshoot issues with intuitive user interfaces and streamlined workflows
- Receive alerts, access your management tools and operate your system from anywhere, on any device
What is New

- Demonstrating IntelliLink™ Interworking Solution from Catalyst
- Standards Based Communications between P25 LMR and MCPTT on LTE Networks (FirstNet™, Verizon Push to Talk Responder, Southern Linc, etc.)
- Based on the MCPTT Standard, not “almost mission critical” as are existing LTE PTT solutions

P25 Interoperability Solution

- Provides Interworking Communications between P25 subscribers on LMR Radios and Smartphone users with MCPTT Application

Benefits to Public Safety

Standards based solution for Critical Communications
- Enables transition to MCPTT on LTE for current P25 Systems

www.catcomtec.com
Booth 2352 at IWCE 2022
DFSI Gateway

What is New

General Features
- DFSI v1 and v2 compatibility
- Channel Change
- Repeat On/Off
- Monitor (Squelch Bypass)
- Voter receiver and transmitter selected/enabled/disabled status and control

Digital Features
- Full-Rate AMBE voice encode/decode
- Group Calling
- Individual Calling
- Emergency Calling and Alarming
- Radio Check, Stun, Revive, Remote Listen, Call Alert, Status Querying, Status Messaging
- NAC Control
- DES/AES Encryption
- RX/TX Level Settings
- RX EQ

Analog Features
- MDC-1200 Emergency alarm decode
- MDC-1200 ID encode/decode
- CTCSS/CDCSS control
- RX/TX Level Settings
- RX EQ

P25 Interoperability solution
- Patch traffic between different base stations at talk-group level.
- Patch P25 base station with numerous other technologies when paired with the Mindshare Radio Interface (MRI)

Benefits to Public Safety
- Migrates legacy analog infrastructure to P25
- Single gateway supports multi-vendor stations via DFSI standard
- Lower cost with more features than previous offering

www.css-mindshare.com
What is New

• Share regional LMR systems across multiple agencies, all with different requirements, but within the same jurisdiction
• Support Fire, Police and EMS using the same infrastructure
• Add coverage on-the-go using transportable extensions

P25 Interoperability solution

• Each agency allowed use their preferred manufacturer’s subscribers
• Support for P25 Standard interfaces to third-party applications and technology

Benefits to Public Safety

• Provides reliable, secure, always-on communications
• Built to support any agency’s mission in any environment
What is New

• MT-5 Subrack, planned for release late 2022
• MT-5 Service Module, planned with subrack release
• MT-4Z VHF Receiver, releasing March 2022

P25 Interoperability Solution

• Improved DFSI integration with Zetron C&C

Benefits to Public Safety

• More complete and scalable end-to-end LMR solutions to enabled First Responders and Dispatchers to Be Heard
NEW: Armada Server for Viking P25 public safety radios

- Allows multiple radio managers to share a common, central database.
- Offline mode allows radio managers to make updates that are synchronized when returning on-line.
What is New

- Offering industry leading bandwidth our most popular Tri-band Flexi-Whip™ is now available with GPS capability as well as a new magnetic mount option

P25 Interoperability Solution

- Seamless antenna connectivity to your P25 LMR providing reliable interoperability

Benefits to Public Safety

- Rugged Flexi-Whip™ mast bends not breaks under impact
- Covert OEM style design won’t blow your cover
- 100 watt capability offers extraordinary connectivity
What is New

• Additional Auto-Test support for Harris and Motorola P25 radios
• Kenwood Viking and Tait P25 radios added to the Auto-Test family

P25 Interoperability solution

• Phase 2 support
• Infrastructure testing with Wideband RF Power Sensor

Benefits to Public Safety

• Ensure indoor and outdoor RF signal coverage with signal strength mapping solutions
• Portable RF testing of P25 subscribers and infrastructure

What is New

• Complete communications test solution

P25 Interoperability solution

• Ability to test P25 Phase 1 and Phase 2, including Linear Simulcast Modulation

Benefits to Public Safety

• Complete and portable RF testing of P25 subscribers and infrastructure

What is New

• Additional Auto-Test support for Harris and Motorola P25 radios
• Kenwood Viking and Tait P25 radios added to the Auto-Test family

P25 Interoperability solution

• DES and AES encryption
• Trunking and Phase 2 support
• Vocoder

Benefits to Public Safety

• Ensure outdoor RF signal coverage with signal strength mapping solutions
• Complete RF testing of P25 subscribers and infrastructure


3920B Radio Test Platform
R8200 New LMR Service Monitor with VNA

What is New

• Single Port Vector Network Analyzer: The only LMR test set to include a VNA
• Includes multiple general use options
  • Remote Front Panel
  • Extended Gen Port Output
  • Process Automation Toolkit ("PAT")

P25 Interoperability solution

• P25 Phase 1 Conventional Test Option
• P25 Phase 1 Trunking Test Option
• P25 Phase 2 Test Option

Benefits to Public Safety

• Perform comprehensive subscriber and network testing with a single instrument
• Save space by combining multiple instruments into one portable device

www.astronics.com/lmr
In-Building Critical Communications
Network Testing Solutions

What is New

• Commissioning tests for in-building radio systems
• SeeHawk™ Central cloud reporting and automation platform streamlines testing and data sharing

P25 Interoperability solution

• P25: RSSI, SINR, Frame BER, OOS BER, Phase detection
• Multi-technology: LTE/FirstNet, DMR, TETRA, 5G, CBRS
• Fast and cost-effective radio tests to obtain building occupancy permit
• Grid test based on NFPA, IFC, and AHJ regulations
• Automatic report generation for submission

Benefits to Public Safety

• Ensure indoor communications for first responders
• Makes adopting and enforcing requirements realistic
• Track buildings in a centralized, secure online platform

https://www.pctel.com/ptig

Booth # 252

Public Safety Network Testing Solution includes SeeHawk® Touch software and IB/flex® scanning receiver

PCTEL®, IB/flex® and SeeHawk® are registered trademarks of PCTEL, Inc.
Valid8 P25 ISSI/CSSI Conformance Testing

What is New
• Multiple Form Factors
• Test Consoles or RFSS on CSSI and ISSI
• Multiple Test Options (Lab, VPN)

P25 Interoperability Solution
• Use Valid8’s Pre-Canned Test Scenarios to Ensure Interoperability with Other Vendor Devices

Benefits to Public Safety
• Real World Testing with Multiple form factors
• Flexibility to Customize Test Scenarios
• Upgradable to MCX, NG911, P25 Cyber-Security Testing Suites

What is New
• The PX-900 is a portable waveform analyzer that enables agencies to identify two-way radios in need of service while they are in the field

P25 Interoperability Solution
• Conventional or Trunk
• VHF, UHF, and 700/800/900 MHz

Benefits to Public Safety
• The PX-900 measures a radio’s alignment and operating characteristics, touch-free, over-the-air (OTA) in real-time, without user intervention.
• Generates reports identifying radios requiring service and validates other radios operating within specification
• A proactive radio maintenance tool that assures operational readiness

Visit LocusUSA at Booth 1544 to learn more
https://www.locususa.com/products/diagnostx/
ISSI/CSSI Interoperability Testing

What is New

- P25CAP ISSI and CSSI Interoperability Field Testing by an ANAB, DHS & P25CAP recognized test lab
- The RFFS/ISSI under test, RFSS supporting the test and test Engineer all in separate locations
- CTL Test Engineer directs, observes and records all test results via VPN & Microsoft Teams
- Detailed test reports produced to complete SDOC & STR

P25 Interoperability solution

- P25CAP Compliant ISSI & CSSI equipment listed on DHS Grant Eligible list

Benefits to Public Safety

- Procurement - Assurance of ISSI/CSSI P25CAP compliance
- Field Testing – Compliance of Agency-owned ISSI/CSSI already installed

Chris Lougee
LMR Industry Business Development
Compliance Testing LLC
1724 S. Nevada Way
Mesa, AZ 85204

206-790-0790 Cell
ChrisL@compliancetesting.com
www.ComplianceTesting.com
What is New

• Licensing for standard and custom processors
• Optional SIMD Libraries available
• Available for various OS’s

P25 Interoperability Solution

• Enhanced Dual-Rate Vocoder
• Rate conversion available for Full-Rate and Half-Rate

Benefits to Public Safety

• Meets latest P25 requirements for voice quality
• Universal standard for interoperability and assured quality
# Project 25 Products and Services Available

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March 2022

Project 25 Technology Interest Group

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| 38 | 16 | 14 | 1 | 8 | 12 | 15 | 6 | 8 | 14 | 11 |

March 2022
P25 New Product Trends

• P25 LMR Interoperability with LTE Broadband Data
  o Multi mode P25/LTE Portable radios
  o Mobile P25 radio with Wi-Fi and LTE connectivity
  o New P25 Consoles connect P25 and LTE technologies

• Voice recording in radios

• Scalable, Configurable P25 Airborne Radios

• New products are P25 Phase 1 and Phase 2 capable
P25 New Product Trends

• Deployable, mixed-mode, P25 repeaters for Emergency Ops
• P25 Antenna Site Monitoring
• “Over the Air” radio maintenance for P25 Systems
• “Cloud based” Asset management for P25 Systems
• “Cloud based” Dispatch in the field
• New P25 Location Services
• P25 enhanced Vocoder Software