New Project 25
Products and Services for 2020

Presented by:
The Project 25 Technology Interest Group (PTIG)

www.project25.org
New P25 Mobile Radios, Portable Radios,

Presented by:
PTIG - The Project 25 Technology Interest Group

www.project25.org
L3Harris Converged XL Mobile Radio

Expanded Capabilities, Powerful P25 Options

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<th>XL-200M</th>
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<td>Multiband</td>
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Each model comes standard with:
- Wi-Fi®, Bluetooth®, and GPS
- Active Noise Cancellation
- Multiple encryption options for security
- Supports P25, EDACS & Conventional

P25 Interoperability solution
- CAP certified, field-proven P25 mobile interoperability
- Converged P25, Wi-Fi and LTE technologies

Benefits to Public Safety
- Connect in more places in more situations
- Field upgradeable LTE and broadband connectivity

XL-200M / XL-185M Multiband and Single-band P25 Mobile Radios

Enhanced Connectivity

[Image of a mobile radio with connectivity features]

www.l3harris.com
What is New

- Updated ergonomics and a large, rugged touchscreen
- A new platform for public safety applications, including ViQi, your new virtual partner
- Improved device management software and remote management capability over LTE
- Automatically switch PTT functionality between P25 and LTE based on coverage level and transmit GPS location data via LTE

P25 Interoperability solution

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

Benefits to Public Safety

- Keep eyes up and focus forward with intuitive ergonomic design, voice control, and voice database queries
- Always stay connected by automatically switching between LTE and LMR based on coverage and continuously transmit location data over LTE
- Keep devices in the field longer by implementing updates over LTE
F7010/F7020/F7040 Portable
F7510/F7520/F7540 Mobile

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

TP9600 P25 Portable Radio

What is New
- Powerful 3W speaker
- Dual Mic Active Noise Cancellation
  - In both analog and digital modes
  - With and without speaker mic attached
- OTAP over WiFi or P25 Trunked networks

P25 Interoperability solution
- P25 CAP certified

Benefits to Public Safety
- Best in class audio performance – both receive and transmit
- Industry leading fleet management application
- Choice of colors for easy identification
- Tait Tough IP68, IP65 and MIL-STD-810 G
Tait Unified Vehicle

What is New

• IP Routing: WiFi-to-Cellular, Ethernet-to-Cellular, Ethernet-to-WiFi
• Voice Recording app: significant enhancements including metadata and user interface
• Remote Application now available for Apple iOS and Android devices
• More broadband frequencies supported:
  • 4G/LTE:B2,B4,B5,B12,B13,B14,B66,B71; 3G:B2,B5
  • WiFi: 2.4GHz, 5GHz

P25 Interoperability solution

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

Benefits to Public Safety

• Vehicle Area Network with choice of connectivity options
• Record ALL voice traffic including off-network simplex calls
• Make and receive radio calls from smartphones and tablets
New P25 Repeaters and Aircraft Radios

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What’s New

DVR-LX P25 Digital Vehicular Repeater

• Refresh of First Generation P25 Digital Vehicular Repeater
• 14% Smaller footprint & 24% Lighter
• Purchasable Features
  • Secure Portable Authentication
  • Remote Updates via Radio Manager
• VHF, UHF, 700 MHz & 800 MHz Bands

P25 Interoperability Solution

Provides enhanced P25 portable radio coverage when first responders leave their vehicles.

Benefits to Public Safety

• Backwards compatible with legacy DVRS
• Available to have mixed fleet of DVR with DVR-LX
• The safety of conventional with the features of trunking
What’s New

FRC – Futurecom Repeater Configurator
• Unified configurator for all of Futurecom’s RF coverage solutions
• Single launch point
• Backward compatible with the first-generation P25 DVR

P25 Interoperability Solution
Futurecom P25 RF Coverage Solutions including the DVR-LX, VRX1000 and PDR8000® - Portable Digital Repater

Benefits to Public Safety
• Consolidated programming software
• Reduce time
TB7300 Slimline P25 Base Station

What is New

- Compact 19”, 1U form factor
- Triple fans allow operation up to +140 °F (+60 °C) ambient temperature at 100% transmit duty cycle
- Front panel indicators for power, alarms, receive and transmit
- Huge range of supported modes: P25 conventional, P25 Phase 1 Trunking, Analog Simulcast, DMR Tier 2 and 3, MPT.

P25 Interoperability solution

- Field proven P25 interoperability, based on CAP tested TB9400 modules

Benefits to Public Safety

- More choice and flexibility in network hardware and installation options, flexible options to migrate and evolve from analog to digital
Technisonic TDFM-9000 Series Airborne P25 Radios

* Tri-Band Modules support VHF / UHF / 7-800
* Analog Capabilities include
  VHF-AM 118-136MHz, UHF 225-400MHz,
  Low Band 30-50
* Meets all Current P25 Analog, Digital and Trunking Standards, Phase I & II Compatible
* Encryption Protocols – AES, DES, DES-XL, DVP, DVP-XL, DVI, ADP. Multiple Encryption Keys
* US Narrow Band Mandate compliant in US
* Front Panel Programming capable
* Night Vision Google Compatible

• **New Multi-Communications Port (MCP)**
  • Developed to address circumstances where additional temporary capabilities are needed such as handhelds, or where additional communication integrations are mission-critical such as Satellite

TDFM-9300
(4)All-Band P25 Transceivers
(1) Traditional Aviation analog transceiver

Contact Technisonic at (905) 890-2113
Technisonic TDFM-9000 Series Airborne P25 Radios

**Key Benefits to Public Safety:**

* Allows access to Federal, State and Local LMR deployments and systems

Multiple Transceiver capability support critical Multi-Jurisdiction operations.

Radios are both FAA and FCC approved for use in aircraft.

Built In advanced features allow for aircraft to act as an airborne repeater, Simulcast station, or for Cross band repeat operations. These “advanced features” allow multiple agency’s and departments to coordinate in Law Enforcement and EMS or Disaster situations, even in instances where land based infrastructure has been destroyed or rendered in-operational due to power disruptions or damage.

Contact Technisonic at (905) 890-2113
New P25 Tactical Mixed Mode Repeater

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
New P25 Consoles

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PTIG - The Project 25 Technology Interest Group

www.project25.org
CommandCentral AXS Console
Dispatching for the Modern World

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
Dispatch Console Solutions

What is New

- Debian 10 OS
- ConsoleSuite Version 3.11.6

P25 Interoperability solution

- Trunked ISSI & CSSI
- Conventional ISSI & DFSI
- P25 IMBE Vocoder
- AES/DES Encryption
- FIPS 140-2 Compliant

Benefits to Public Safety

- Incorporates Full P25 Console Interfaces
- Migrate Legacy Analog Infrastructure to Full Featured P25 Digital System Interface

WWW.CSS-MINDSHARE.COM
InterTalk Enlite Cloud-Based Dispatch System

What is New

• **Enlite** is a first-to-market dispatch solution in North America
• Offers a public-safety-grade dispatch console, empowered by the cloud
• **Enlite** provides P25 connectivity in the field via mobile-connected devices

P25 Interoperability solution

• Connect **Enlite** console to P25 via DFSI or CSSI/ISSI
• Convergence of analog radio, P25, LTE, call-taking capabilities, and more
• Allows 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.intertalkenlite.com
What is New

• Introducing IntelliLink™ Internetworking Console Solutions from Catalyst
• A consistent user interface for both LMR and LTE Resources
  • Dispatch to both P25 LMR and MCPTT enabled Mobile Phones
  • Patch / Interoperability between LMR and LTE

P25 Interoperability solution

• Dispatchers create interoperability between LMR and LTE Talk Groups and Channels

Benefits to Public Safety

• Standards based solution for Critical Communications
• Simpler migration to FirstNet™ for Dispatchers

IntelliLink™ LMR & LTE Dispatch Console

www.catcomtec.com
New P25 System Elements, Antennas and Capabilities

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www.project25.org
What is New

- Tri-band Flexi-Whip antenna available in NMO roof, magnet, and glass mount
- Covert fin-style single and tri-band available for stealth missions

P25 Interoperability solution

- Seamless antenna connectivity to your P25 LMR providing reliable

Benefits to Public Safety

- Durable flexi-whip material makes our antennas extremely robust
- Covert designs won’t blow your cover
P25 Digital and Analog Mixed-Mode Public Safety Systems from Codan Communications

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
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
L3Harris Power25™ Radio Systems

Standardized, pre-configured network offerings

• Eliminates costly and complex up-front network engineering
• Provides increased flexibility to agencies with multiple options for managed services

Military-grade VIDA network resiliency and security

• Options for backup application and core hardware redundancy
• Options for cybersecurity to meet NIST 800 Risk Management Framework

Best-value, robust network, radio, console and feature bundles including:

• Industry-leading XL Portable radios with available LTE
• Symphony™ dispatch consoles
• MASTR® V P25 phase 2 TDMA-enabled repeaters
Kenwood Armada Proxy

*a powerful new extension to the Kenwood Viking Armada programming suite*

- **Challenge:** updating fleet programming as operations evolve
- **Solution:** multiple connectivity paths for Viking radio fleet management software for remote programming
- **NEW:** Armada Proxy for Viking P25 public safety radios
  - Extends reach of the Armada client, across the state or the world
  - Armada Proxy just needs a network connection to reach the centrally located Armada client. Program remotely as if there.
Kenwood Armada Expanded Suite

- Multiple simultaneous radio connections
- Expedite radio programming updates across the fleet
- Via:
  - Direct connect
  - Kiosk standalone
  - OTAP
  - Local radio network
  - Armada Proxy: Wide area network
Project 25 Technology Interest Group

What is New

- Introducing IntelliLink™ Internetwork Solution from Catalyst
- Standards Based Communications between P25 LMR and MCPTT on LTE (FirstNet™) Networks
- 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 Mobile Phone users with MCPTT Application

Benefits to Public Safety

- Standards based solution for Critical Communications
- Enables transition to FirstNet™ for current P25 Systems

www.catcomtec.com
New P25 Testing and System Support Services

Presented by:
PTIG - The Project 25 Technology Interest Group

www.project25.org
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

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

3550R Radio Test System

What is New

• Updated remote command interface for enhanced scriptability

P25 Interoperability solution

• Infrastructure testing with Wideband RF Power Sensor

Benefits to Public Safety

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

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
New P25 Over-the-Air Radio Diagnostics for Large Coverage Deployments

What is New

• MX-3000 Master unit accommodates the requirements of larger geographically dispersed systems (state, regional and county)

P25 Interoperability Solution

• An essential tool for P25 migration

Benefits to Public Safety

• Provides comprehensive reports indicating alignment characteristics by Radio ID, identifying their status as Failed, Passed or Never Received

• Detect radio issues before it becomes an emergency - mitigates possible legal liability

• A proactive radio maintenance tool that assures operational readiness

https://www.locususa.com/products/diagnostx/
Testing Indoor Public Safety Radio Communication
SeeHawk® Touch and IBflex®

What is New

- 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

P25 Interoperability solution

- P25: RSSI, SINR, Frame BER, Phase detection
- FirstNet Measurements: multiple bands/operators
- Multi-technology: LTE, DMR, TETRA, 5G, CBRS, NB-IoT
- RSSI on all technologies

Benefits to Public Safety

- Ensure indoor communications for first responders
- Makes adopting and enforcing requirements realistic

What is New

- Field Testing For User Agencies
- Acceptance, Certification & Validation
- A2LA Accredited Test Lab

P25 Interoperability solution

- Subscriber Unit Certification for use on your System.
- RF System Acceptance or Validation - New or Existing
- P25 CAP - Compliance Assessment Program Test Plan
- Beyond CAP - User Designed Test Plan

Benefits to Public Safety

- “Do No Harm” - Only compliant SU’s loaded
- All system features and services will execute as expected
- All elements of system are actually compliant (current)
- Validate performance after installation in real world situation

Is your P25 system compliant?
Will your ISSI work?

https://compliance testing.com/

ChrisL@compliance testing.com

480-748-4449
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)

Features

• Pre-made test scenarios and procedures
• PASS / FAIL analysis, including plain English diagnostic reason
• Easy to configure
• Automatic execution of test batches

Benefits to Public Safety

• Real World Testing with Multiple Form Factors
• Flexibility to customize test scenarios
• Upgradable to MCX Conformance suite (4Q20)

Codan’s CodanCare Extended Services

What is New

• CodanCare is ideal for customers who prefer personalized attention and priority services
• Complimentary software upgrades
• System-wide troubleshooting

Benefits to Public Safety

• Peace of mind for reliable operations

P25 Interoperability solution

• CodanCare engineers help with the integration and troubleshooting of other supported manufacturer’s P25 technology

CodanCare Operations Support Center
New P25 Vocoder Software

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www.project25.org
P25 Enhanced Vocoder Software

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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New P25 Products and Services for IWCE 2020

For More Information on Project 25 Go to: www.project25.org

E-mail Stephen Nichols, Project 25 Technology Interest Group Director: director@project25.org