P25 New Products and Services for 2019

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Presented by:
PTIG - The Project 25 Technology Interest Group
www.project25.org – Booth 2761
VM7000 P25 Multi-deck / Multi-band Mobile

What is New

• All-Band Multi deck Mobile
• Simultaneously receive and transmit up to four bands
• Supports high power (110W) VHF option
• Includes enhanced vehicular repeater integration

P25 Interoperability solution

• Interoperates with up to four P25 systems simultaneously
• ATLAS® P25, Astro® 25, VIDA® P25
• Mixed protocol operation (P25 Phase 1 & 2)

Benefits to Public Safety

• Select and unselect speaker audio control similar to dispatch control (multiple simultaneous conversations)
• Allows public safety user to roam to and operate on secondary systems while simultaneously connected to the primary dispatch
Harris XL-185M - P25 Converged Mobile Radio

What is New
Expanding the powerful XL family of converged P25 communications to the Mobile Radio platform!

- Single-band, premium integrated vehicular solution
- 700/800 or 900 MHz bands
- P25 / EDACS / Conventional
- Standard features include:
  - Wi-Fi (2.4GHz & 5GHz)
  - GPS
  - Bluetooth
  - Noise Cancellation
- Field upgradable, LTE-ready platform

P25 Interoperability solution
- CAP certified, field-proven P25 mobile interoperability
- Convergence of P25 (LMR), Wi-Fi and LTE technologies

Benefits to Public Safety
- Clear, intelligible audio for mission critical communications
- Common user experience with XL-185P and XL-200P
- Vehicle Area Network with applications to support data needs via LMR, Wi-Fi and LTE
- Future-ready to expand over time

Learn more at Harris Booth #1549
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

Learn More at Icom Booth #1949
New P25 Monitor: G5 P25 Voice Pager

What is New
- Now supports Phase II TDMA
- Now supports DMR Conventional Tier I & II
- New 2019 Release Planned: VHF & UHF Dual Band model!

P25 Interoperability solution
- P25 CAP certified, the G5 is a P25 compliant, receive only device that does not register or affiliate on the Network.
- Supports AES-256 Bit Encryption Standard
- Dual Band Models: VHF & 700-800MHz and UHF & 700-800MHz

Benefits to Public Safety
- P25 Digital Paging provides improved coverage, excellent voice clarity and superior reliability.
- Migrating from Analog to P25 Digital Paging can provide substantial savings- eliminating costs associated with network infrastructure replacement, maintenance, site & utility costs.

Visit Unication at IWCE Booth 353
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

Learn more at InterTalk Booth #1561
www.intertalkenlite.com
Telex C-Soft P25 Console

What is New
- C-Soft v7.5 Now Shipping

P25 Interoperability solution
- P25 Analog
- P25 DFSI & CSSI (Phase I & II)

Benefits to Public Safety
- SIP & NENA phone interface
- Crosspatch between radio technologies
- Over-The-Air and Direct IP interfaces can coexist
- DES & AES FIPS 140-2 compliant encryption
- Interface with CAD, AVL, and others via API
- Supported by 10+ IP recorder companies
- Highly customizable graphical user interface
- System security helps prevent and mitigate cyberattacks
**New P25 Happenings**

**What is New**

- Completed first ISSI/CSI Non CAP interoperability testing with Motorola using new PTIG testing template
- New Scout Enterprise consoles E1, E4, E8 and EX.
- Scout Select product line now offers a subscription purchasing method
- New integration with Motorola APX radios for wireless connectivity
- Added Verizon Broadband to our existing PoC interface suite which includes AT&T Enhanced PTT

**Benefits to Public Safety**

- Connect P25 systems to LTE and LMR technologies for maximum interoperability using standards based interfaces.
- Ready for FirstNet
- Use off-the-shelf computers with public-safety-grade, high-performance Avtec USB speakers, microphones, and foot switches.
- Secure, reliable, proven platform.
- Scalable with licenses on same architecture
- Designed, built, and supported in the U.S.
New P25 Repeater Infrastructure

What is New

• 100W VHF P25 Operation
• Remote Programming/Diagnostics
• Now Shipping!

P25 Interoperability Solution

• Vendor Neutral P25

Benefits to Public Safety

• High Performance at Affordable Price
• Software upgradeable

https://codancomms.com/products/cascade
Learn more at Codan Booth #1361
What is New

• Connectivity Deployment Application Notes

P25 Interoperability solution

• Provides portable, on-scene P25 coverage for special events or incidents.

• Back to Back Cross Band Repeater (RT/RT)

Benefits to Public Safety

• Provides guidance to further extend a P25 Network through a variety of backhauls including over IP/LTE Network via V.24 or serial modem links.

Catalyst Communications Technologies
IntelliLink™ Interworking Technology

What is New

- Results from a DHS Contract to research Standards based (P25) Interworking with FirstNet™ / 3GPP LTE
- Catalyst analyzed 56 Core Requirements and found 76% conformance using Inter Subsystem Interface (ISSI) to a P25 trunking system - but few agencies can use ISSI
- Interworking with other radio systems and other interfaces is also feasible but has a lower conformance percentage

P25 Interoperability solution

- Catalyst has designed a near-term, modular, multi-vendor architecture
- Uses Standard 3GPP messages to interface with LTE MCPTT before the Full IWF is complete
- Offers an Adapter to a variety of LMR systems without ISSI

Benefits to Public Safety

- More P25 users (including those without ISSI) can access FirstNet™ and have Interworking with their current LMR
- LMR / LTE Interworking promotes migration - not replacement - to FirstNet™
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
- Future proof: 5G, CBRS, NB-IoT
- RSSI on other technologies

Benefits to Public Safety

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

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

What is New

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

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

Visit LocusUSA at Booth 731 to learn more
https://www.locususa.com/products/diagnostx/
LMR User Acceptance & Certification Program

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

https://compliancetesting.com/
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480-748-4449
Pick the form-factor that best suits your needs:

- Virtual Machine
- Panasonic Toughbook
- Dell/HP 19” server
- Valid8 M-series HW
International Wireless and Communications Expo
Las Vegas, Nevada
March 5, 2019

Thank You

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