



LMR-LTE Interworking and Dispatch

Fully standards-compliant LMR-LTE Communications enables Land Mobile Radios to communicate with Mission Critical Push-to-Talk (MCPTT) mobile phones on LTE networks, including FirstNet® PTT.

IntelliLink™ Interworking Solutions leverage Catalyst's 25+ years of experience in sophisticated radio control and interface technologies and new developments based on 3GPP standards for interfacing LTE networks, including FirstNet PTT. The result is the market's first interworking solution based on these standards and follows the industry trend toward standardization versus today's profusion of incompatible PTT over cellular solutions.

INTUITIVE AND CUSTOMIZABLE USER INTERFACE

IntelliLink Interworking Advantages

- Intelligent software solution running on commercial off-the-shelf Windows® computers
- Designed to support public safety organizations of any size with the ability to scale as needed
- Connect with virtually any LMR system, including standards-based and proprietary radio protocols with LTE MCPTT
- Experience seamless management of group and private communications between LMR and MCPTT Subscriber Units

FACT SHEET

Technology Innovation

IntelliLink Interworking is based on the 3GPP LTE Client interface standard.

This LTE Client interface is more affordable, easier to implement and manage compared to the Server-to-Server Interworking Function (IWF), while still providing key capabilities for First Responders.

Research and development of Catalyst's IntelliLink Interworking Solutions was funded in part from a contract with the Department of Homeland Security Science and Technology Directorate.

Interworking Helps Overcome Many Operational Challenges

- Expanded geographic coverage and capacity
- Conservation of primary LMR channel resources by offloading less critical traffic to the LTE network
- Establishing parallel, redundant and integrated layers of communications
- Reduced operational costs
- Improved mutual aid preparedness and response

Typical Use Case

A county's LMR system is nearing capacity due to an increasing number of users. The county gave LTE MCPTT devices to support staff so they can communicate with first responders using Catalyst's interworking solution. This saves primary radio system resources for first responders. Not only did this help solve the county's capacity challenges but they also solved geographic coverage and interagency challenges while saving costs.

The Power to Control



Ease of Operation

- Intuitive, customizable and efficient user interfaces
- One button press to activate or deactivate patches
- Uni-directional and bidirectional patching can be configured dynamically or in advance



Intelligent Audio Management

- Dynamic, intelligent audio control and management
- Optimized for L3Harris radio systems
- Metadata captured and stored for accountability and analysis
- Caller IDs are displayed and stored for both LMR and LTE



Flexible Configuration Options

- Highly configurable and scalable architecture
- Interworking only, full dispatch or combinations of both solutions
- Redundant, distributed architecture ensures flexibility with no single point of failure



Versatile, Robust Audio Recording

- All communications received or transmitted are recorded, stored, easily accessible and can be sent to Voice Logging Recorders
- Integrated, advanced call recording and playback for both LTE and LMR communications

The Mission Critical Alliance is a partner program for best-of-breed technology solution providers to openly collaborate to advance the capabilities, compatibility and security of mission critical solutions.



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