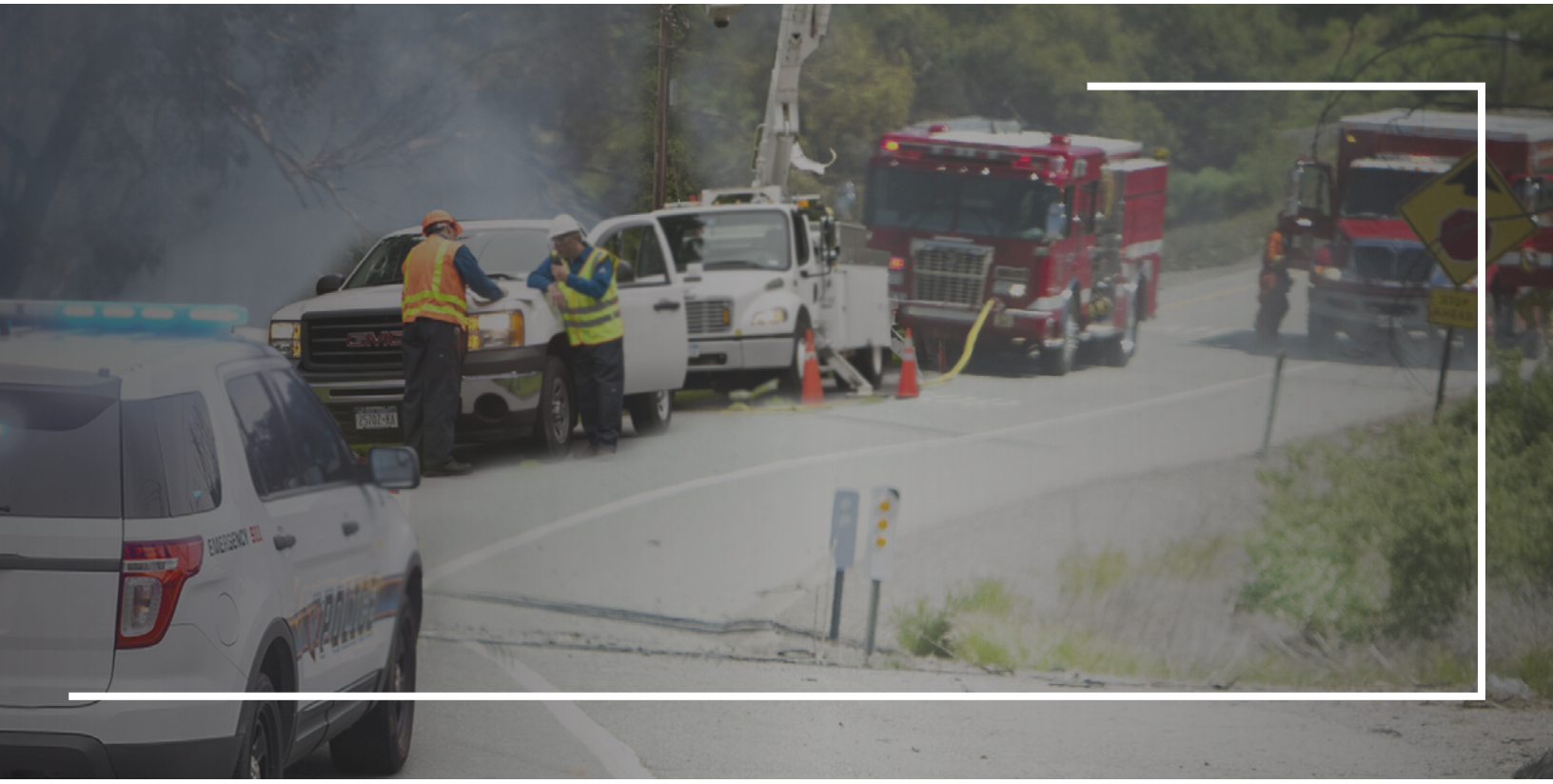
LMR-LTE INTERWORKING AND DISPATCH

Powered By 3GPP Technology

MISSION CRITICAL ALLIANCE™

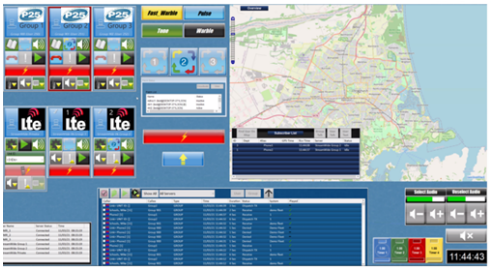


Intellilink™ Interworking

Fully standards compliant LMR-LTE Communications enables Land Mobile Radios to communicate with Mission Critical Push-to-Talk (PTT) Mobile Phones on LTE Networks, including FirstNet PTT.

IntelliLink™ Interworking Solutions leverage Catalyst's 25+ years' experience with sophisticated radio control and interface technologies with new developments based upon 3GPP Standards to interface to LTE Networks, including FirstNet PTT. The result is the first interworking solution in the market based upon these standards and follows the industry trend toward standards-based solutions and away from today's profusion of incompatible PTT over cellular solutions.

Intuitive, highly configurable User Interfaces



IntelliLink™ Interworking Advantages

- Intelligent software solution running on commercial off the shelf Windows® computers.
- A highly scalable platform, supporting large and small public safety organizations.
- Enables connection of virtually any LMR system including standards based as well as proprietary radio system protocols with LTE MCPTT.
- Highly configurable user interface options for managing group and private communications between LMR and MCPTT Subscriber Units.

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catalyst communications technologies

FACT SHEET

Technology Innovation

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

This LTE Client interface is available today, can be more easily implemented and managed than the Server to Server" Interworking Function (IWF), is much less expensive and provides the key capabilities needed by 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

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

Typical Use Case

A county's LMR system is nearing capacity due to an increasing number of users. To alleviate the problem, the county issued LTE MCPTT devices to users who support first responders, preserving primary radio system resources for them. Implementation of Catalyst's interworking solution enabled support personnel and first responders to communicate as if they were on the same system. Not only did this help solve the county's capacity challenges but they also solved geographic coverage and inter-agency communication challenges while realizing overall cost savings.

The Power to Control

Ease of Operation

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

Intelligent Audio Management

- Dynamic, inteligent audio control and managemnet
- 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

- Easily and highly configurable and scaleable 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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