Clear, dependable communication is vital in your organization. And though your Land Mobile Radio (LMR) network gives you that dependability inside its coverage area, sometimes you need to communicate with coworkers or other people who are out of range. And at some point you may need to free up some additional capacity on your LMR network or perhaps you need a dispatch solution for Verizon Wireless Push to Talk.

With interoperability and dispatch applications from Catalyst Communications Technologies, you can now bridge the communication gap between disparate networks, increase the reach of your LMR communications to Push to Talk users on the Verizon Wireless network, and coordinate the activities of field personnel using Verizon Wireless Push to Talk and your two-way radios.

Catalyst provides interoperability and dispatch solutions to organizations that use LMR networks. Its applications and products seamlessly combine LMR radio and Push to Talk networks to make communication simple. IntelliLink™ allows you to patch your LMR system to Push to Talk phones on the Verizon Wireless network—phones that can be located virtually anywhere in the nation. This solution can be further enhanced by adding dispatch capability for LMR and Verizon Wireless Push to Talk via Catalyst’s Desktop Dispatch™ console or full-featured IP|Console™.

The advantages of Catalyst solutions.

Catalyst solutions increase your communication range beyond your LMR network so you can share information with users outside of your coverage area, between agencies, or with users on different networks. The patching application, IntelliLink, lets you set up, activate, and manage patches through its intuitive user interface. IntelliLink provides outstanding flexibility by allowing multiple patches to be activated at once, and through its ability to automatically route incoming Push to Talk sessions to a designated talk group or channel. Catalyst’s powerful, flexible dispatch applications work on the same system hardware as the interoperability solution. This makes upgrades to support LMR, Verizon Wireless Push to Talk, or both, a snap.
Catalyst applications in action.

Expand RF network coverage.
**Problem:** The police chief is out of town on business and a major emergency occurs. He needs to communicate with his on-scene personnel, but he is out of the LMR coverage area.

**Solution:** With a Catalyst solution, the chief can communicate with his LMR users through the Verizon Wireless Push to Talk network. He can leave his LMR radio at home and travel with a Verizon Wireless Push to Talk phone. An additional benefit is his ability to use his phone for enhanced data applications like email, SMS, and location—based services like VZ Navigator.

Free up LMR network capacity.
**Problem:** The city’s network is approaching full capacity and city officials are faced with the choice of an expensive radio system upgrade or a complete system replacement.

**Solution:** Use Catalyst applications to integrate with the Verizon Wireless Push to Talk network. Move less-critical departments, such as Animal Control, Public Works, and Sanitation, to the Push to Talk network. This leaves departments such as Police, Fire, and EMS on the private LMR network for critical communications and at the same time allows for continued communications across all users, whether they are on the LMR network or the Push to Talk network.

Provide radio system backup.
**Problem:** An LMR radio tower goes down, or an emergency occurs in a place outside the coverage area.

**Solution:** Use a Catalyst gateway and IP|Console to provide communication on the Verizon Wireless Push to Talk network.

Catalyst Communications Technologies helps you:
+ Lower capital expenditures, compared to purchasing new LMR equipment.
+ Get a broader coverage area when operating Push to Talk.
+ Enjoy full-featured communication ability between LMR and Push to Talk devices.
+ Use a single Verizon Wireless Push to Talk phone for LMR connections, phone calls, email, SMS, location-based services, and more.

Features:
The Catalyst interoperability and dispatch solutions use Radio Control over Internet Protocol (RCoIP) to create a gateway—or bridge—between LMR network users and specified users of the Verizon Wireless Push to Talk network. Features include:
+ Advanced gateway technology.
  • Full radio control.
  • Critical messages such as Unit ID and LMR Emergency.
  • Mission-critical audio management.
  • Automatic LMR channel change.
  • Cost-effective Voice over Internet Protocol (VoIP) connectivity between radio systems and dispatchers.
+ Scalable, advanced interoperability.
The solution comprises three user interface applications, each of which can control any combination of Catalyst gateways:

- **IntelliLink** is a patching application that allows you to create channel- and group-specific, uni- or bi-directional patches.
  - Add and delete channels from an existing patch.
  - Create a new patch from scratch.
  - Activate multiple patches simultaneously.
  - Enable and disable new and existing patches.
  - Enjoy advanced patch display.

- **IP|Console** is a full-featured primary dispatch software application that runs on a PC.
  - Fully supports radio systems from most manufacturers and a multitude of LMR system technologies, as well as Verizon Wireless Push to Talk.
  - Flexible, customizable user interface.
  - Designed for customers with critical communications needs.
  - Windows®-based operation.

- **Desktop Dispatch** is an application for mobile or back-up dispatch as well as office workers.
  - Compact user interface leaves space on the computer screen to monitor other applications.
  - Fully compatible with IP|Console, making it ideal for providing dispatch capabilities in a supervisor’s office at a very low cost.

Catalyst solutions are compatible with most major LMR radios, including Motorola®, Harris, EF Johnson, Kenwood, and Daniels™.

Contact your Verizon Wireless business specialist for more information.