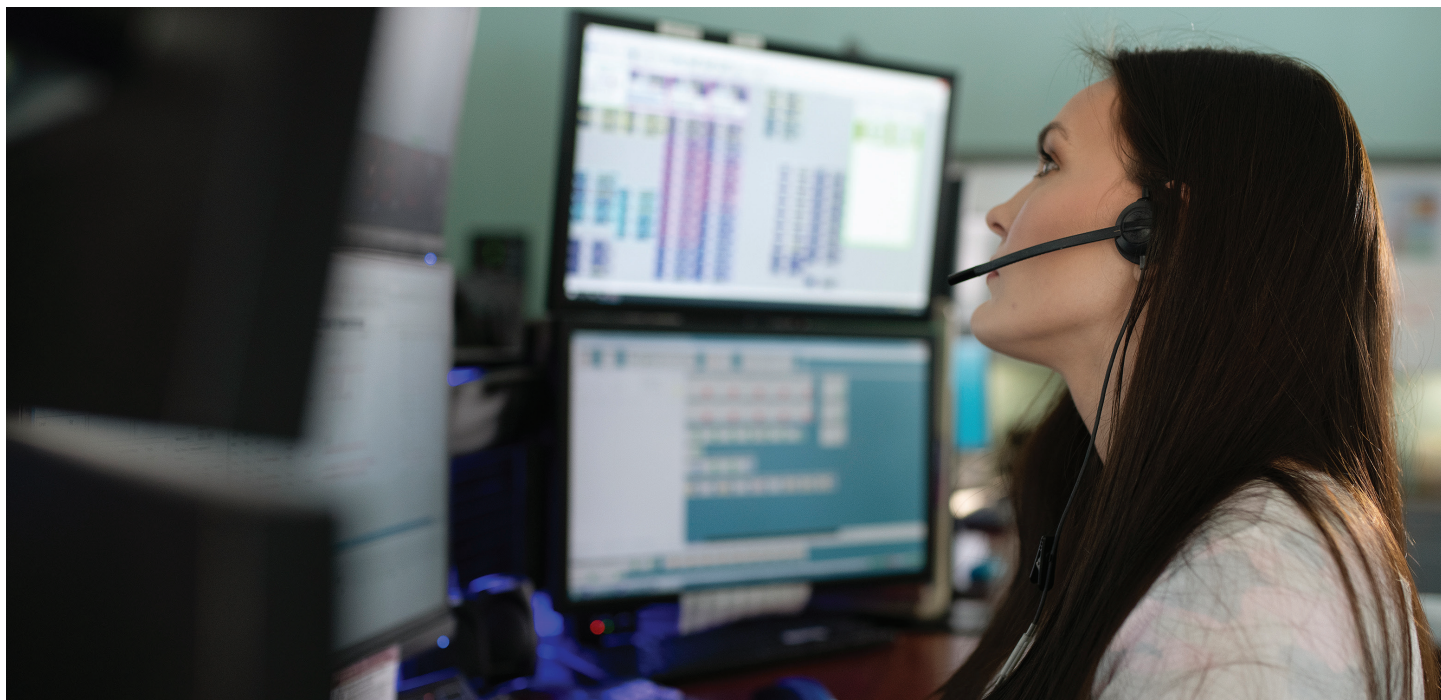


FirstNet® Push-to-Talk: Dispatch solutions

Mission critical PTT integrated into Catalyst Propulsion™



Expanding the available communication options for dispatch control centers

Emergency Communication Centers (ECCs) can now take advantage of FirstNet Push-to-Talk (PTT), our broadband mission critical PTT solution, integrated into Catalyst dispatch console system. This integration provides agencies the flexibility to monitor and control both FirstNet PTT and LMR talk groups.

Adding FirstNet PTT to Catalyst Propulsion dispatch consoles provides several critical benefits including:

- Capability to select and move users from land mobile radio (LMR) systems to the FirstNet PTT service, freeing up limited LMR capacity
- Consistent operational procedures since LMR and FirstNet PTT resources are on a common dispatch platform
- Ability to patch LMR, FirstNet PTT and other broadband PTT resources together when you require cross-network communication

Integrated dispatch through Catalyst

Catalyst Communications Propulsion dispatch is a Windows-based integrated dispatch solution that uses

IntelliLink™ LMR-to-LTE interworking technology to provide access to the FirstNet PTT core.

Propulsion™ supports a wide range of commonly used LMR systems including Project 25 digital systems, SmartNet®, EDACS®, NXDN, LTR, Fleetsync™, Digital Mobile Radio (DMR) Tier III trunked radio systems, DMR Tier II (conventional), MDC 1200 and conventional analog radio interfaces.

The Propulsion™ console interface offers an extensive list of capabilities including:

- A fully customizable and configurable user interface
- Ability to monitor and manage LMR and FirstNet PTT group and individual communications efficiently, seamlessly and simultaneously
- Simultaneously broadcast to groups and individual users
- Ability to collect and combine metadata from various sources, including PTT voice, caller ID, call type and duration
- Priority access to talk groups, with the capability to override other FirstNet PTT talk groups on the system
- Intelligent awareness and control of all communications systems

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Mission Critical PTT through FirstNet

Propulsion incorporates a FirstNet PTT client into the dispatch console interface, which allows the same level of mission critical PTT functionality offered to subscribers on smartphones. With a FirstNet dispatcher license, the console can:

- Communicate at the push of a button with single users or with groups, with elevated priority on the FirstNet network
- Hear audible tones or see visual cues to alert users to a status, e.g., caller or group name displays, talker name displays, floor availability.
- Initiate and receive emergency calls
- Send text messages to talk groups or individual contacts
- Access detailed call and activity logging
- Support advanced recording options



Collectively, these capabilities establish a truly integrated system of systems, resulting in increased coverage and capacity, and a more efficient use of communication resources.

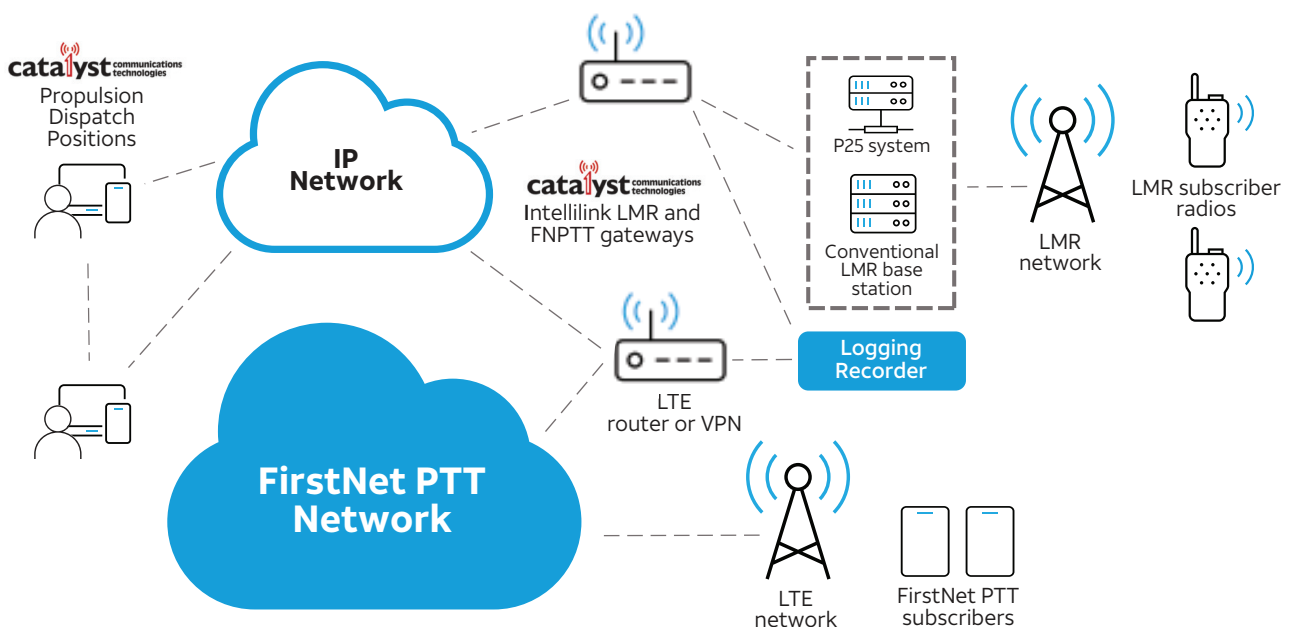
Catalyst Dispatch Architecture

Catalyst's Propulsion system maximizes fault tolerance, system flexibility, ease of use, and ease of system maintenance. The architecture minimizes the impact of any individual component failure by employing a distributed networking model.

The solution is composed of three primary elements:

1. The Propulsion Dispatch position(s)
2. The local or wide-area IP network
3. The Intellilink communications system gateway(s)

The following diagram represents a typical configuration, designed for redundancy with separate gateways for the various LMR and FirstNet PTT communication systems. A typical solution also includes connections to an external logging recorder system.



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You can also use the Catalyst Intellilink gateways with the Intellilink Gateway Dashboard (IGD) to create a powerful way to augment any existing dispatch console system. This option allows:

- Control interworking of 100s of LMR and FNPTT talk groups
- Call logging with caller ID/alias
- Call monitoring
- Recording
- Instant recall, basic and advanced logging
- Protection against lost audio



How to order and provision

Propulsion console integrated with FirstNet PTT combines equipment and services from both FirstNet and Catalyst. The required hardware, software and services are purchased and provisioned separately from AT&T and Catalyst.

- The Propulsion dispatch console equipment is available from Catalyst or through their authorized dealers. Go to catcomtec.com for details. The customer is responsible for purchase and implementation of the Propulsion dispatch console equipment and Intellilink gateways, along with any other required equipment or network infrastructure and services.
- Your FirstNet Solution Consultant can order the FirstNet PTT dispatcher licensing credentials to allow Propulsion access to the FirstNet PTT network. They can also coordinate provisioning of the gateway credentials to configure the Intellilink gateway.

Support

Technical support for the FirstNet PTT service is available from FirstNet Customer Service 24/7. Catalyst provides support directly for their Propulsion console product at <https://catcomtec.com/>

Pricing – FirstNet PTT Services

Component	\$
Dispatcher Service	\$60/position/month
Dispatch Console Gateway Site License Fee	\$2500 (one time)

Customer is responsible for purchase and implementation of the Catalyst Propulsion dispatch console equipment and Intellilink gateways along with any other required equipment or network infrastructure and services.

Visit www.firstnet.com/push-to-talk for more information on the FirstNet Push-to-Talk services and capabilities. For all service terms and conditions, visit http://serviceguidenew.att.com/sg_flashPlayerPage/FIRSTNET_PTT.

For more information, contact your FirstNet Solutions Consultant or visit www.FirstNet.com/push-to-talk.