



propulsion™

DISPATCH CONSOLE



Propulsion is a graphics rich, critical voice dispatch console for Digital Mobile Radios (DMR), that also provides interoperability with Project 25 radios, MDC, and other radio formats. This scalable product provides integrated instant call recording and optional telephone interconnect (SIP or POTS).

Powerful User Interface

This touch screen compatible, infinitely configurable user interface displays Unit ID, Emergency, and Call History. Dispatchers can simulselect or patch up to eight channels with intuitive graphical controls, instantly transmit on each module, uniquely set the volume for each module, differentiate audio on select and unselect speakers, and replay recent calls with a single click. Each agency can add custom graphics to accelerate recognition of who is talking.

Radio over IP

Eliminate expensive circuits and installation costs with Radio over IP (RoIP). Propulsion routes voice and messaging across your organization's existing computer network using Internet Protocol (IP). Dispatch positions and interoperability management can be established virtually anywhere on the network including across low bandwidth links like satellite.

Critical Communications

Catalyst's field proven design protects critical communications from being dropped while the radio system assigns a channel and from network congestion by using acknowledged TCP messages.

No Single Point Failures

A peer-to-peer architecture allows communications to keep flowing when a controller or console is off-line. Bottlenecks are eliminated, reducing connectivity costs and providing reliable voice traffic.

Support Services

Catalyst provides industry leading critical communications grade support services, including 24/7 tech support staff and professional installation and training services.

Package Sizes

- Radio Interfaces: 1, 4, 8, 12, or 24
- Dispatch Positions: 1 - 12

Dispatch Position Specifications

- INTEL Dual Core 2.5GHz
- 3Gb RAM
- 120Gb HD
- NIC (NDIS Compatible)
- Sound Card
- Windows 7 32/64 bit or XP 32 bit

*Contact Catalyst for Updates

Features

- Remote channel selection
- Unit ID with centralized alias database
- Emergency Display
- Integrated call logs, exportable for billing, analysis, etc.
- Tone and voice alerts
- All Call
- Direct/Repeater Mode
- Text Messaging

*Features vary with radio interface

Migration Paths & Additional Clients

The Propulsion console can be upgraded to support more console positions, more concurrent channels, and additional radio systems interfaces using Catalyst's IP Console™. Catalyst's Desktop Dispatch™ and IP Soft™ clients can also be used with the Propulsion Console system to provide radio access for support personnel, mobile command vehicles, and other applications.

**Specifications are subject to change without notice.

Accessories

- Telephony Control Unit
- Headsets
- Gooseneck and Desk Microphone
- External Speakers
- Foot Switch
- Touchscreen and Traditional Monitors

Codecs

Systems administrators can choose the codec for each radio interface

- G711: 64 kbps
- PCM: 64 kbps
- ADPCM: 32 kbps
- GSM: 13 kbps

Standards

Catalyst provides a standards-based solution in all three core technology areas:

Networking: Our Session Initiation Protocol (SIP) and Real Time Protocol (RTP) interface allows interoperability with complementary communications tools like IP Telephones, Collaboration solutions, tablets, etc. from a variety of manufacturers and connectivity between dispatchers and radios can be via your existing Internet Protocol (IP) network – Catalyst is compatible with routers, switches, and other networking equipment from a variety of manufacturers.

Mobile Radio: Catalyst supports Project 25 (P25), Digital Mobile Radio (DMR), and legacy standards like EIA Tone Control.

Hardware: Our solutions can run on commercial off-the-shelf (COTS) hardware that is available from multiple vendors.