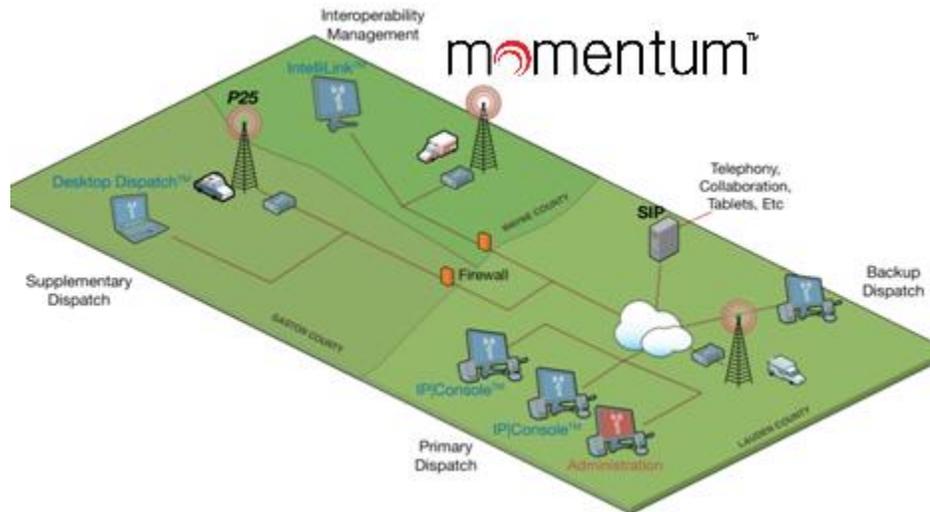# Catalyst Dispatch Console

propu1sion™ is the Catalyst dispatch console for the Harris **momentum™** DMR platform. It is designed from the ground up as a fault tolerant hardware and software solution providing ease of use and maintainability, with vast flexibility and functionality. Built by Catalyst, the pioneers of Radio over IP, it is a distributed and robust solution for both conventional and trunked DMR networks. With no central switch or electronics, the design minimizes the impact of failure of any single system component. The Propulsion console operates on a standard Windows-based PC workstation, providing Voice over IP support for various land mobile radio and other communication standards. Operating on a shared IP network, the consoles may be located anywhere on the network that provides IP-access to the radio gateways. Below is a typical console layout.

Each Catalyst dispatch system is comprised of one or more advanced radio gateways residing on a common IP network. Gateways are specific to the radio or other communication system being supported with virtually any mixture of gateways available for display and control from a given workstation. momentum™ gateways, P25 gateways and SIP Telephony gateways can all come together in a single dispatch console to provide interoperability between the various communication platforms. Multiple consoles on the IP network may access the common shared gateways so that more than one dispatcher can communicate over the radio system simultaneously.

The momentum™ gateway may be a wired or wireless connection to the radio infrastructure, simplifying installation and service. Other Catalyst gateways accessible from the console include the P25 Control Station interface, a gateway for interface to commercial PTT devices (such as Verizon Wireless) and the PSTN gateway for connection to a "plain-old-telephone-service" line. Many of Catalyst's gateways provide intelligent radio control such that channel change, caller ID, emergencies and other features are made available at the dispatch console.

Console Capabilities

The Propulsion Console provides an infinitely configurable, modern graphical user interface that is easy to learn and touchscreen compatible. The Critical Communications advantages of Propulsion include:

- Unit ID for DMR, P25 and MDC1200 with Centralized Alias Database
- Detailed, real-time Call Logging
- Emergency Indication from field units
- Call Flow management which protects critical audio
- Individual Volume Controls

- Low Bandwidth Requirements (communicate over satellite or cellular)
- Advanced Patching and Simulselect
- Integrated Instant Recall Recorder Option with one-button playback
- P25 to DMR Interoperability

Voice Call Features	Propulsion
All Call	Yes
Group Voice Call	Yes
Unit to Unit Call	Yes
Channel Change	Yes
Caller Alias Display (& Unit ID)	Yes
Emergency Status	Yes
Simulselect/Multiselect	Yes
Signaling Features	
Call Alert	Yes
Unit Disable	Yes
Unit Enable	Yes
Radio Check	Yes
Radio Monitor	Yes
Call Management Features	
Individual Volume Controls	Yes
Select/Unselect Monitoring	Yes
Call History	Yes
Instant Recall Recording	Option
Telephone Patching	Option
SIP Interface	Option
Intercom	Option
Grant, Denied, Queue, etc. Tones	Yes
Automatic Gain Control (Console Transmit)	Yes

For more information about the Propulsion console please contact Catalyst Communications at 434-582-6146 or visit us at www.catcomtec.com. This document is presented for informational purposes only and is subject to change without notice. Catalyst Communications assumes no liability resulting from use of this information and reserves the right to make changes to this product information without notice.