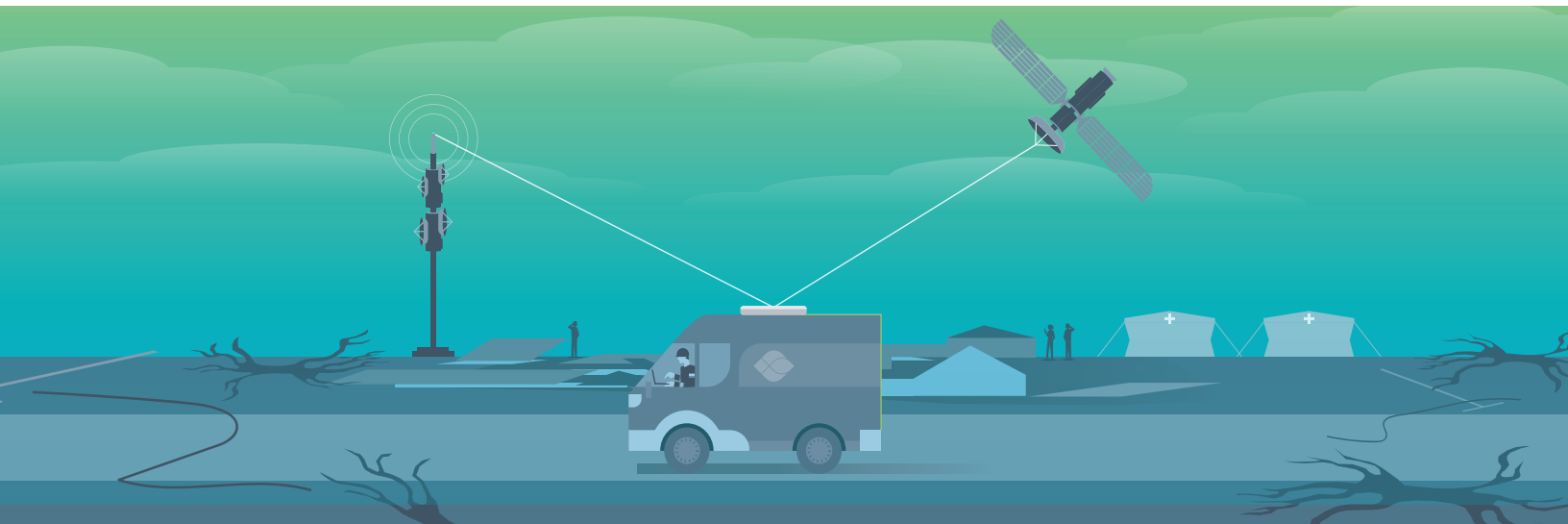# EMERGENCY COMMUNICATIONS PLATFORM SOLUTION OVERVIEW

Isotropic™

Unrivaled Certainty™ for Emergency Services

Isotropic's Emergency Communications Platform (ECP) is designed to give first responders a powerful, easy-to-install, compact communications solution that allows them to deploy on the move, switch effortlessly and instantly between VSAT and LTE, and monitor and manage available streams of bandwidth to ensure connectivity when and where it matters most.

The ECP is built on the Kymeta u8 GEO terminal, which integrates an iDirect iQ 200 modem board, and is enhanced by Isotropic's Datadragon™ bandwidth monitoring and management platform.

The platform is supported by Isotropic's customizable service plans, which are designed to fit the unique needs of each user.

ELECTRONICALLY STEERED
Software-defined, reconfigurable, and updatable, the ECP operates over the complete KU band.

DESIGNED FOR MOBILITY
The ECP's low-profile, aerodynamic design is easily integrated into mobile platforms.

LOW POWER
With native DC operation, the ECP requires very low power to operate while on the move.

SD-WAN COMPATIBLE
The ECP's software-defined networking in a wide area network (SD-WAN) allows for instantaneous switching between satellite and LTE networks.

INSIGHTS-DRIVEN
The ECP leverages Datadragon, an intuitive bandwidth management platform providing application-level transparency to fine-tune and optimize bandwidth allocation for less lag and better service.

FLEXIBLE SERVICE PLANS
Isotropic offers flat-rate service plans designed to scale and work with the ECP or existing systems.

ECP SPECIFICATIONS

KYMETA u8 GEO TERMINAL

Leveraging Kymeta's revolutionary, software-defined, electronic beam steering technology, the u8 terminal is low-profile, mounting easily on any vehicle. It has been reengineered for full coverage of the Ku-band, increased antenna performance, and extended environmental coverage—all while maintaining low power operation for seamless integration into mobile platforms.

iDIRECT iQ 200 MODEM BOARD

The iQ 200 Board features DVB-S2/DVB-S2X with Adaptive TDMA returns. Designed to integrate into complete terminals, the iQ 200 Board combines high-performance iQ series features with OpenAMIP mobility. OpenAMIP is an IP-based protocol that facilitates the exchange of information between an antenna controller unit and a satellite modem, ensuring a seamless integration.

DATADRAGON

Datadragon is an award-winning bandwidth management and service platform from Isotropic that enables never-before-possible levels of application-level transparency, optimization, and personalization across any single or hybrid network. Through Datadragon's proprietary bandwidth monitoring platform, users have real-time visibility into internet usage so they can proactively analyze and address everything from service requests to billing issues.

Datadragon's patented algorithm, paired with state-of-the-art AI technology, offers detailed insights into day-to-day user activities and provides the ability to optimize and prioritize bandwidth allocation according to end users' needs.

Datadragon solves inherent issues found when scaling network visibility solutions with flow data based on Netflow and IPFIX. Datadragon's learning classification engine reclassifies a flow at a minimum rate of once per second through a patented solution. This provides unprecedented network visibility in terms of scale, cost, flexibility, accuracy, and real-time usability.

The Datadragon platform operates in a fully software-based virtual appliance that can be integrated via API/PCRF and deployed across different points in a network, so users can apply automatic assurances of capacity to every network flow, dynamically based on real-time usage.

SERVICE PACKAGES

Isotropic maintains relentlessly high standards of service and is continually raising the bar for what satellite connectivity can be. Building on that legacy, the ECP platform is supported by Isotropic's customizable flat-rate flexible service plans designed to scale and work not only with the ECP, but also with preexisting technology configurations.

For more information on the ECP, contact Isotropic at sales@isotropic.network.