



**ENVIRONMENTAL
REACHBACK
SITUATIONAL
AWARENESS**

**WIRELESSLY SEND CBRNE
SENSOR READINGS TO
INCIDENT COMMANDERS**

ERSA is a communication system that enables deployed CBRNE sensors to send real-time readings to provide situational awareness to incident commanders and Hazmat team leaders.

FEATURES

- LoRa Radio (2km city/15km line of sight)
- Supports several interface options and detectors

USB	Ludlum 9DP
UART	RAE Systems MultiRAE RAE Systems ToxiRAE Drager Multi-PID 2 Proengin AP4C
IrDa	MSA Sirius
Bluetooth Low Energy (BLE)	Generic sensor types
10/100 Mbps Ethernet	
GPIO	

- GPS Position Tracked and Sent
- Open, Non-proprietary System
- 10+ Hours on Two CR123A Batteries
- Fully Integrated with D4H Live™ and ERDSS



COMMANDER SITUATIONAL AWARENESS

Developed by Kopis Mobile in conjunction with a federal agency to allow existing and future CBRNE sensors to wirelessly send readings back to incident commanders or Hazmat team leaders

NO VENDOR LOCK IN

- Based on the open First Responder's Sensor Protocol (FRSP)
- Allows sensor manufacturers to add current and future devices to the system
- Hazmat teams are free to procure the best sensors based on their needs, then enable a reachback solution.

MULTIPLE COMMUNICATION PATHS

- LoRa 900MHz Radio in the ERSA dongle to the ERSA gateway (up to 2km city, 15km LOS)
- Fall back to sending readings via cell-phone over a cellular network if available

EASY SENSOR CONNECTION

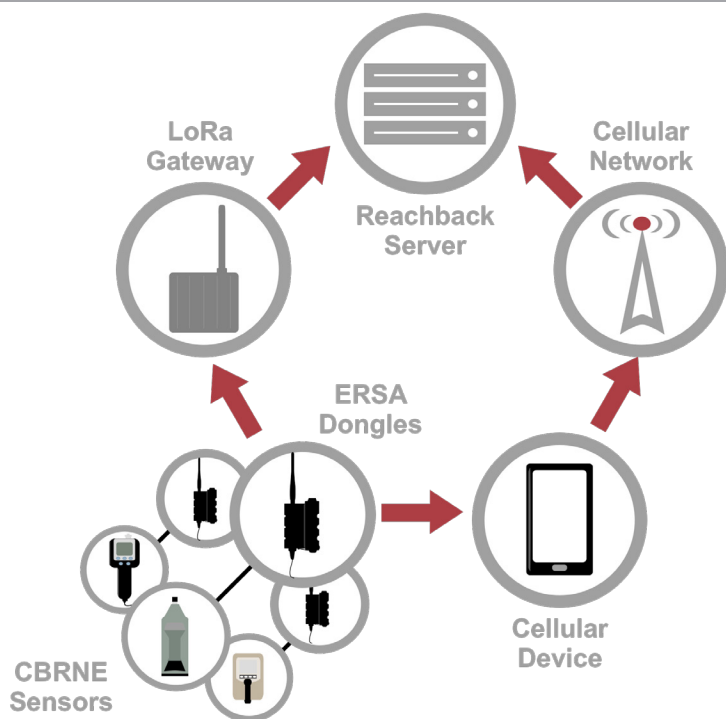
- Allows many sensor types to be enabled with the FRSP protocol through the addition of an ERSA dongle
- Dongle pulls readings from CBRNE sensors via UART (RS232 and TTL), USB, IrDA, BLE, Ethernet and GPIO

LOCATION AND READINGS WITHOUT VOICE TRAFFIC

- GPS chip automatically sends the location of each reading
- Frees voice communication traffic from repeated requests for sensor readings and positions

SAVE LIVES WITH BETTER DECISION MAKING

- Integrated with
 - D4H Live™
 - Emergency Response Decision Support System (ERDSS)
 - Kopis Mobile ERSA Android App
- Provides vital, life-saving information to experienced team members



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