SAFER

SMALL | SMART | SILENT | C5ISR

SOLUTION OVERVIEW

> **SAFER** is a passive C5ISR platform that provides situational awareness to warfighters and first responders.
>
> The IoT hardware interfaces to TAK and monitors RF and acoustic signals using embedded AI to detect, locate, and identify local threats.

SMALL

At 8.6oz and the size of two decks of cards, the z·SCOUT sensor hardware supports helmet, tactical vest, or sUAS mounting. The IP68, passively-cooled device is rugged and reliable. Integrated 5KmAh battery and solar panel provides continuous operation without recharging as an unattended ground sensor.

SMART

Embedded AI processors continuously scan the RF spectrum (to 6GHz) and acoustic signals (to 20KHz) to detect, locate, and identify RF devices and dark objects. Patented RF Fingerprinting technology separates friend from foe. User authentication restricts unauthorized access. Tamper-proof design with remote ZEROïz technology safeguards data and code.

SILENT

RF-silent LAN technologies support covert ISR functions and squad member comms in disconnected environments. Programmable WAN communications support LPTR/LPD/LPI backhaul to C2. Embedded long-range mesh networking extends comms when terrestrial or satellite networks fail.

C5ISR

SAFER System of Systems solution includes best-in-class edge sensor hardware, TAK plugin for end-user control and gateway functions, and cloud/edge/hybrid server-side software for C2 and COP integration. It was built on commercial ISR technology, DoD-adapted under SBIR funding, and has been matured to TRL7 status.
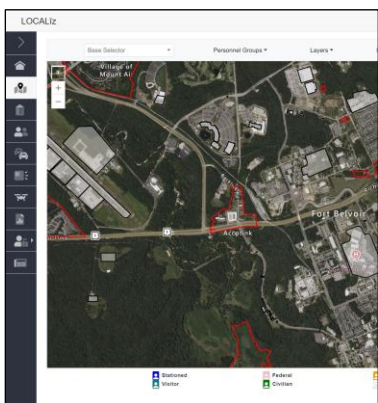
SAFER
SYSTEM COMPONENTS

z·SCOUT

Ultra-low SWaP-C IoT-class hardware for edge intelligence and low probability of tracking, detection, and interception. Engineered for deployment flexibility including man-carried, sUAS payload, permanent installation, or unattended ground sensor use.

z·TAK

TAK Plugin supports Zero Trust user authentication, z·SCOUT device management, ISR data injection into the TAK device for visualization of local threats in disconnected environments, and TAK network forwarding for team awareness.

LOCALīz

C2 Software platform for data fusion, policy management, C2 services, and external database or COP integration. GIS-centric server-side software supports cloud, edge, or hybrid architectures in milCloud environments and interfaces to Bulzī's ENLĪTN AI training module.

BULZĪ

About Bulzī

Bulzī ("bull's-eye") is a pioneer and a leader in applying AI to Internet of Things (IoT) devices.

The company's technologies were originally developed for the commercial market and focused on using IoT sensors to detect smartphones as a proxy for people. It has adapted them to support situational awareness and health safety in military and civil government markets.

Bulzī qualifies for SBIR Phase-III Federal agency contracting advantages, including sole-sourced contracts without competitive bidding.