



ELSAG® SignalTrace™ Intelligence System

Identify Suspects Through the Electronic Devices They Carry

SignalTrace is an advanced signal intelligence system that enhances traditional ALPR capabilities by detecting and correlating nearby electronic devices with vehicles of interest. It bridges license plate recognition data with sensor-captured device identifiers—such as those from mobile phones, Bluetooth wearables, and vehicle systems—to create a unique, trackable ‘electronic fingerprint’ for investigative use.

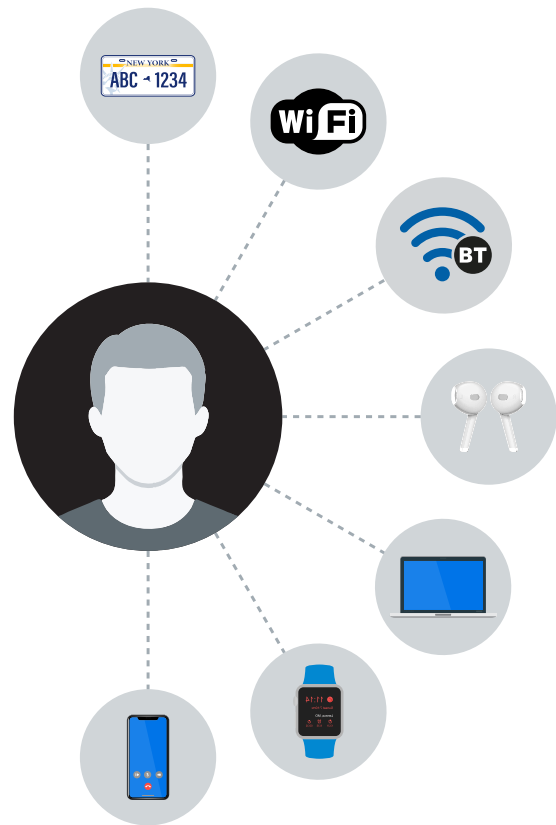
When multiple devices consistently move together with a vehicle, SignalTrace’s algorithms link them to that vehicle’s license plate and time-stamped location data. This correlation provides investigators with another layer of actionable intelligence, even if a suspect changes or removes a plate.

Secure, Non-intrusive Intelligence Gathering

SignalTrace captures only publicly broadcast device frequency activity. It does not decrypt or store any content from devices or communications. It functions like a license plate reader by capturing identifiers without accessing personal or message data.

Key Features and Benefits

- Works seamlessly with the ELSAG Enterprise Operations Center (EOC) to integrate device data with ALPR intelligence
- Identifies suspects by the unique mix of devices they carry or use
- Links devices that regularly travel together, correlating them to license plates
- Recognizes vehicles by electronic fingerprint—even | without a visible or correct plate
- Aids in detecting gang movements, trafficking operations, and convoy patterns
- Stores device and correlation data securely in the EOC for future queries and analysis
- Increases coverage cost-effectively by deploying sensors with or without co-located LPR cameras
- Operates effectively in off-road and non-traffic environments such as rail stations, event venues, and shopping centers



Tracked Device Types

SignalTrace correlates license plates to a variety of identifiable device types, including:

| RFID Tags | Bluetooth® Devices | Vehicle Components | Wi-Fi Sources |
|---------------------|---------------------------------------|-----------------------------|-------------------------|
| Key cards | Mobile phones | Tire pressure sensors | Vehicle hotspots |
| Asset tags | Wearables (watches, fitness trackers) | Security and safety sensors | Tablets and smartphones |
| Pallet transmitters | Wireless headphones | Infotainment systems | Laptops |
| Pet microchips | | | |

The Leonardo Advantage

Leonardo's decades of experience delivering mission-proven ALPR systems ensure that SignalTrace is built for law enforcement realities. Backed by 24/7 customer support and designed to integrate seamlessly with Leonardo's ALPR ecosystem, SignalTrace gives agencies a powerful edge in identifying and tracking suspects.

Discover how SignalTrace can expand your investigative reach and accelerate case closures.

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