

Precyse Technologies

iLocate Defense & HLS Solutions

A New Generation of Wireless
Communication Technology
Connecting All Things for a World
That's Always On



Bridging The Last Mile of C4i

Making decisions, commanders depend on ACCURATE INFORMATION.

While much of the effort of managing operations has been automated, there remains a ‘**last mile**’ of manual process. When it comes to mobile forces and assets deployed in a battlefield environment, C4I command and control systems are fed with fragmented data.

The result?

- Data acquisition is slow, inaccurate and costly
- Human error makes data unreliable
- Commanders cannot take accurate, real-time decisions

To solve this, Precyse introduced a new generation of wireless technology, optimized for low-cost, long battery life, secured and robust battlefield command and control operations

iLocate C4i For Battlefield Command & Control

The iLocate™ Defense Solution is an advanced approach for battle field command & control automation. A combination of readers, beacons and active RFID soldier tags called Smart Agents enables, for the first time, commanders to:

- Identify a single soldier’s sector location in real time: on foot, in combat vehicles or on air born platforms.
- Send & receive data directly from soldier carried sensors in an automated way – eliminating human errors and reporting delays.
- Give soldiers a basic personal radio device with a panic button and over one year battery life.
- Add ammunitions and critical supplies to the forces’ real time visibility map.

Next generation smart agents incorporate assisted GPS technology, adding accurate geographical location without compromising battery life, maintaining the low-cost price targets required for single soldier tracking

iLocate HLS For Secure Border Lanes

The challenge:

- Enable fast-lane crossing while maintain 100% vehicle and driver identification through a secured communication channels, fraud proof.

The alternatives:

- Using optical OCR but this yields ~85% success rate and it is easy to ‘cheat’ the system

Why the Precyse iLocate™?

- Evaluation by the IDF found that this is the only system that can deliver:
 - Encrypted wireless communications
 - Support for keypad on the tag
 - One mile range
 - Single lane location accuracy in the crossing
 - Better service, safer border

Delivering a 100% secure identification of vehicle and driver enables border check post personnel to focus on suspected vehicles, allowing approved cars to cross quickly and securely.



On-board soldier & equipment count

Eliminate tactical cut off, avoid friendly fire and kidnapping



Track and monitor supplies in real time



Key iLocate™ Features and Deliverables

- Asset Location: ranging from low-cost custom location-zones to vehicle to less than **ONE foot location** accuracy.
- Smart Tag Interfaces: **fully digital** (RS232) and analog sensors. Up to five user-buttons available (motion sensor included).
- 433 MHz -or- 2.4 GHz: **either frequency** supported.
- Range up to 1 KM with full **two-way data communication**.
- US DoD's **AES encryption** for all wireless communications.
- Low cost **wired or wireless** infrastructure (RF readers).
- Scalable, Redundant Server Software – supports **distributed architecture**.
- Robust built to safely operate in extreme environmental conditions with 100% data reliability.



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