

Blue Force Tracking beyond GPS Special Forces - Dismounted Soldiers

HIGH PRECISION 3D POSITIONING & NAVIGATION FOR MISSIONS IN GPS-DENIED ENVIRONMENTS (OUTDOORS & INDOORS) USING SYSNAV'S LOW-DRIFT MAGNETO-INERTIAL TECHNOLOGY

Assured PNT (Positioning, Navigation and Timing) is becoming a critical need of military forces. The reliance on GPS & GNSS for PNT is widespread for military operations and troop maneuvers, but recent conflicts confirm that GPS signals are being jammed on the battlefield.

In addition, **within buildings or undergrounds**, GNSS signals are not available, even M-code and GPS-RTK. And in "**urban canyons**", positions are incorrect due to multi-path trajectories of satellite signals.

To conduct high risk missions, complementary PNT technologies are needed in order to track operators reliably.

SYSNAV developed and patented magneto-inertial geolocation, that takes over from GNSS and provides low-drift inertial positioning while using low-cost sensors.

SYSNAV is engaged in R&D programs for France's future dismounted soldier capability.

SYSNAV PLD Test Kit includes :

- SYSNAV PLDs (Personal Location Devices)
- SYSNAV Studio GUI and API
- Android mobile app
- UWB anchors for initialization
- Configuration, testing & data analysis support
- API training and integration support.

REAL TIME BLUE FORCE TRACKING

- Sub-metric individual tracking in X,Y (Long/Lat) and Z (elevation)
- Team location tracking and position sharing among the team

COMMON OPERATIONAL PICTURE

- Display on any GIS or tactical map
- Compatible with ATAK framework

MAN-DOWN ALERTS AND RESCUE

- Customisable alerts (immobility, fall...)
- Directions to man-down

GEO-TAGGING OF RECON INTEL

• Add precise location to points of interest

TRAINING & LESSONS LEARNED

- Training centers: collect data, monitor performance, use in debriefing
- Operations debriefing and evidence

COMPATIBLE WITH ALL COMMUNICATION SYSTEMS

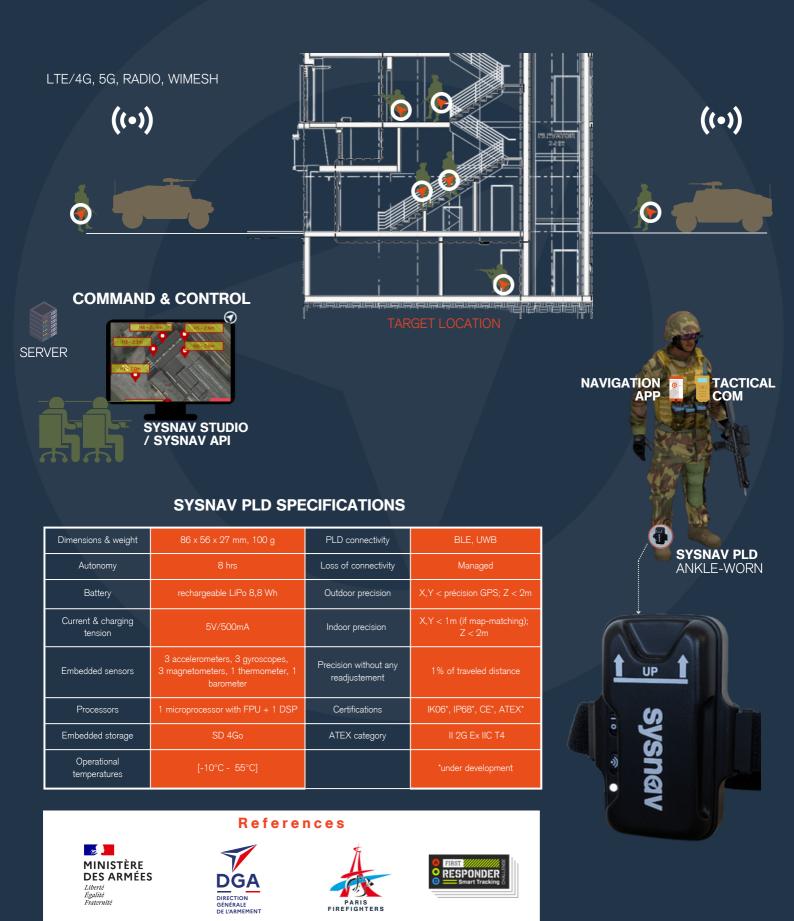
• Tactical Radio, Wimesh, PMR LTE, 4G, 5G

DATA CONFIDENTIALITY & CYBERSECURITY

Anonymous identifiers, encrypted protocols for transmission and storage

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3D PRECISION TRACKING FOR ENHANCED COMMON OPERATIONAL PICTURE



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