



Personnel Tracker Basic

GPS-Denied Location

NEON Personnel Tracker Basic is a low SWaP, 2D GPS-denied location service for dismounted warfighters. Suited best for squad tracking applications, Personnel Tracker Basic provides ubiquitous location, tracking and mapping for personnel operating in areas where GPS is unavailable, in a solution easily integrated into military position, navigation, and timing (PNT) architectures.

- Sensor fusion for dismount personnel
- Operation indoor, underground, and outdoors
- Flexible 3rd party constraint processing
- Integrates with resilient PNT sources
- Warfighter map/waypoint check-in
- UWB ranging and constraint sharing
- ATAK and Nett Warrior Plug-In's
- API delivers warfighter location, motion, gait



Accurate location information is critical for enabling improved navigation, situational awareness, targeting, and mapping. GPS may be denied in triple canopy, urban canyons or indoor and subterranean environments, and can be easily jammed or spoofed.

The Personnel Tracker Basic location service uses a suite of patented algorithms to opportunistically fuse inertial sensor data, GPS (including resilient GPS sources), warfighter waypoint check-in and ultrawideband shared constraints, along with position location information from third party systems sources (psuedolite, satellite, etc.) to deliver reliable GPS-denied location.

Personnel Tracker Basic is deployed as an Android location service with a small, body worn tracking unit. The location service is easily integrated as a subsystem of an overall PNT architecture that extends operations when dismounted personnel are operating in naturally or intentionally denied environments.



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Key Features

Low SWaP Sensor Fusion

Android-based NEON Location Service delivers real-time 3D location (X, Y, Z), timestamp and error bound estimates.

Flexible Constraint Processing

Constraint filter supports resilient GPS sources as well as Gaussian and non-Gaussian 3rd party constraints through API

Precise Detail on Movement and Activity

Enables real-time classification of soldier activity and status.

API For Simple Integration

Interface for third party developed applications provides real-time user context and location.