GENERAL DYNAMICS

Mission Systems

Fight Tonight Assured PNT Solution for GPS Challenged Environments

Part of GPS Source Family of Assured PNT Solutions



Ensures mission effectivness in GPS challenged environments

Affordable Assured PNT derived from only fielded mounted system

Fight Tonight enables Assured PNT up to and including US Army defined Threat Condition 2

Includes M-code enabling compliance with NDAA and DoD policy

20-minute drop-in replacement of existing hardware using existing cabling & mounts

In use in INDOPACOM now and available for procurement today

Overview

The Army tactical ground vehicle fleet consists of approximately 150,000 total vehicles. Most of these vehicles and their associated missions are dependent on GPS-based positioning, navigation, and timing (PNT) data. Current threat documentation shows U.S. adversaries have a substantial ability to affect GPS reception and trusted service, even when the Army is using current technology (SAASM based GPS and RA-2 FRPA GPS Antenna). The Army has fielded or has plans to field Assured PNT capabilities to only 13 percent (20,000 vehicles) of its tactical ground vehicle fleet due to a variety of cost and technological factors.

GPS Source, the first to field a Mounted Assured PNT system for the Army, has developed a family of Assured PNT solutions for GPS challenged and denied environments for the entire tactical ground vehicle fleet. GPS Source's Fight Tonight Assured PNT System is a modification of the fielded MAPS Gen 1 System, which is the only operational ground Assured PNT System available. Fight Tonight includes upgrade from SAASM to Modernized GPS M-code enabling compliance with US Law and Policy. The Fight Tonight system is compatible with multiple anti-jam antenna systems and is a drop-in replacement for existing DAGR/RA2 configurations. Fight Tonight is in operational use in INDOPACOM and is available for procurement today to provide Assured PNT in the toughest GPS jamming environments up to and including the US Army defined Threat Condition 2.

Fight Tonight Assured PNT Solutions for GPS Challenged Environments

Scalable, Low-Cost, Easy to Install Solutions for 90% of the Army Tactical Ground Vehicle Fleet

Degraded by Adversarial Jamming and Spoofing

Condition 3

Tier 1: Disruption increases to eventually deny GPS. Access to trusted non-GPS PNT to platform and clients in useable format enables continued military operations.

Condition 2

Tier 2: Disruption actions increase. A secure GPS Receiver with an AJAS enables continued military operations.

Condition 1

Tier 3: Disruption actions begin. Any secure GPS Receiver will provide Assured PNT in this moderate threat environment.

AJAS and non-GPS PNT (AltNav, GNSS, Inertial Sensors, CSAC, and others as tech evolves). PNT logic with open standards architecture to maintain access and trust. (IS-GPS-153/ MSID/VICTORY)

AJ antenna with AS from MGUE card. Open architecture allows adding options. (IS-GPS-153/ MSID/VICTORY)

Ease of integration of any M-code Receiver card. Horizon nulling capability. Distribution to client systems. (IS-GPS-153/MSID)

GPS Source Solutions

HALO

Performance data available from government-run

test events using real-world operational threat

data. Production ready 2023.





HALO LRU

FIGHT TONIGHT Drop In 4 Element AJAS OR MAPS GEN 1 with M-Code

ED3M or ED3M with VCAM

MRPA HORIZON NULLER



FD3M With

M-code card

DAGR



MRPA Antenna

Availability

FIGHT TONIGHT

Available now. In use in INDOPACOM.

MAPS GEN 1

Available now. More than 2,000 vehicles in CONUS, INDOPACOM and USAREUR

Available now. In use in Eastern Europe.

Scalable, Cost Effective Solutions to Meet Threat

Fight Tonight provides capability in applicable threat conditions defined in DoDI 4650.08 and U.S. Army APNT ICD and MAPS CDD. Fight Tonight is a "drop-in" for DAGR/RA2 systems and available today.

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