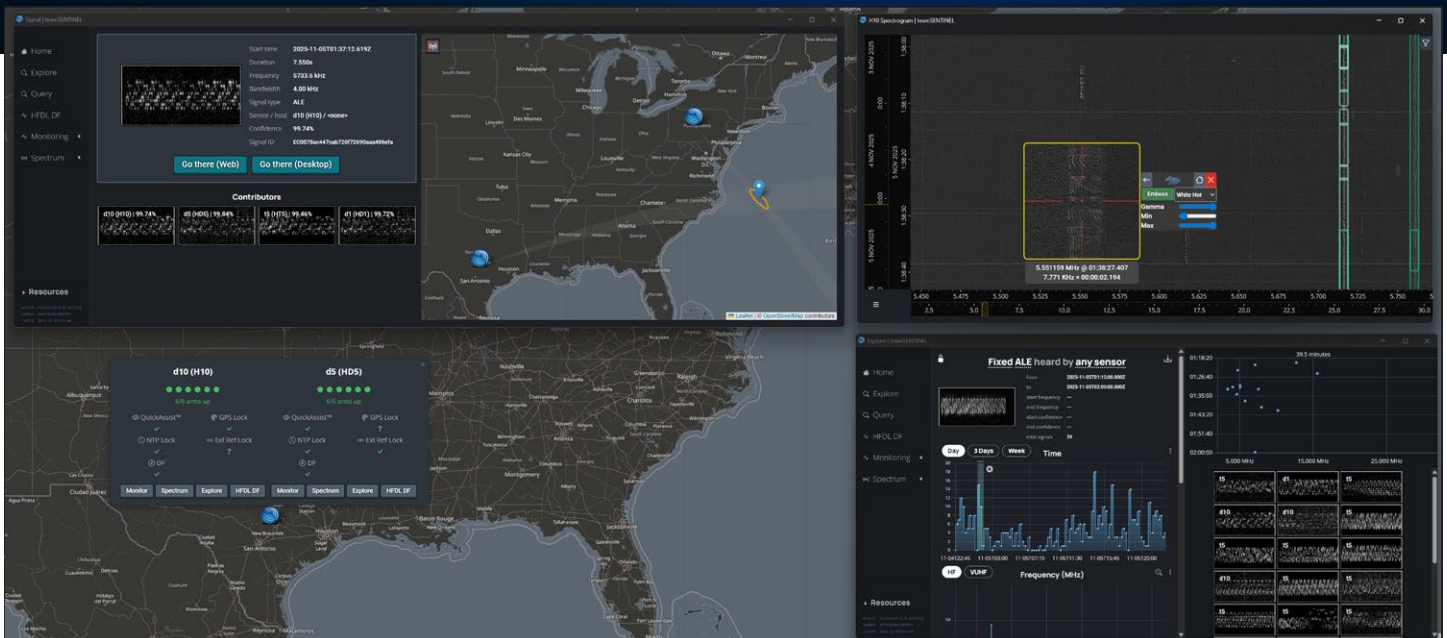


SENTINEL Hub

Enabling Global Data Fusion to Drive Intelligence-Based Decision Making



SENTINEL AI/RFML-enabled SIGINT solutions fuse machine learning with adaptive spectrum intelligence to detect, classify, and geolocate emitters in real time and through delay line recording.

Key Capabilities

- ▶ Local to global networking of SENTINEL sensors and databases in Cross Domain Solution environments enabling secure data
- ▶ Supports live sensor integration with file-based I/Q data ingest to fuse and process datasets that scales to hundreds of Terabytes
- ▶ Connects the full SENTINEL signal processing environment, live sensors, archived collections, and analyst tools into an integrated workspace
- ▶ Expands RFML signal classification across the entire RF Spectrum
- ▶ Web-based interface enables client operations on general compute platforms

Key Advantages

- ▶ Enables faster, more complete intelligence-based decision making on local and global scales
- ▶ Delivers faster, smarter decisions across local and global operations
- ▶ Hardware-agnostic implementations maximize CONOPS flexibility supporting strategic and tactical missions
- ▶ Theater Net-Centric Geolocation (TNG) enables local to global signal geolocation
- ▶ AI/RFML signal classification reduces operator burden and training requirements and moving data-to-intelligence conversion to the edge

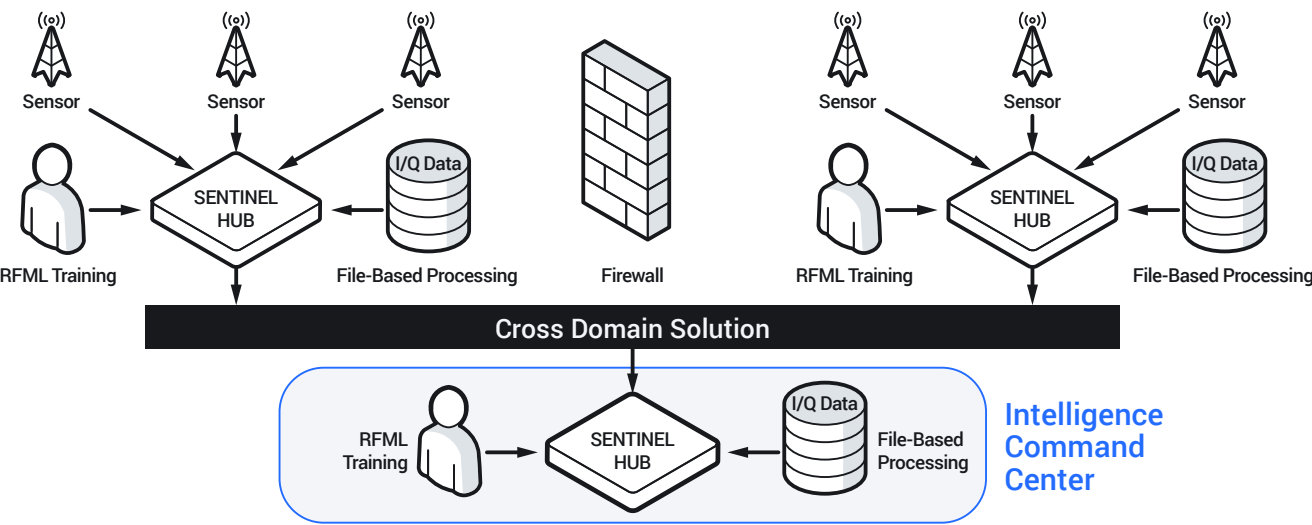
Accelerates Intelligence-Driven Decision Making, Everywhere

MPG’s EMS data management and analysis environment for search, survey, record and classify missions

SENTINEL Overview

For over two decades, SENTINEL has been embedded in operational strategic and Tactical SIGINT environments worldwide, supporting discovery and analysis missions that demand persistence, reliability, and scalability. That legacy is now embodied in the SENTINEL HUB, an evolved platform where analysts gain full access to MPG’s live sensor network, without the need for dedicated client workstations, while leveraging a powerful RF data analysis environment purpose-built for high-volume IQ ingest, recording, and detailed signal analysis.

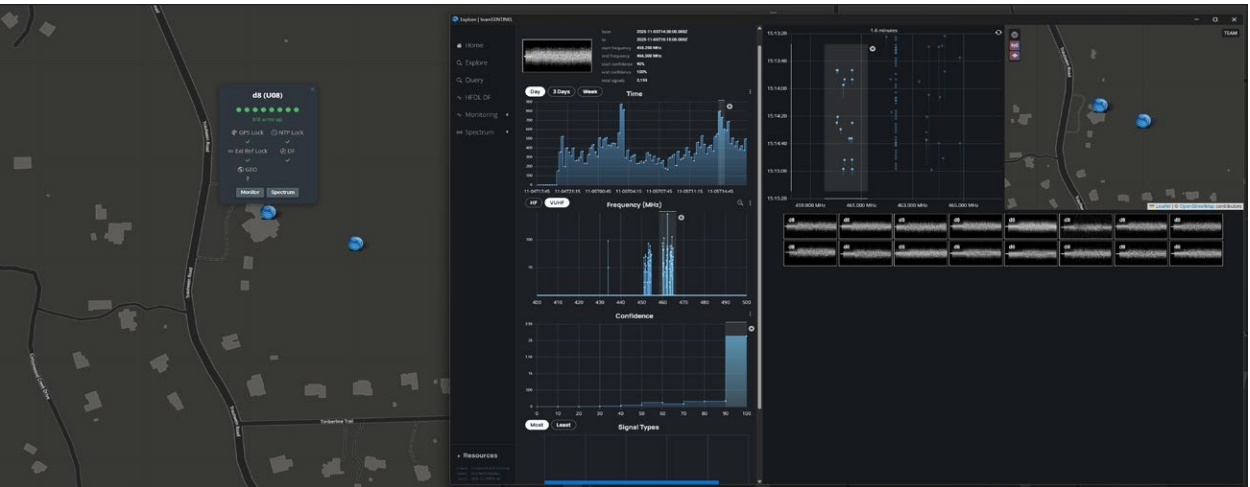
SENTINEL HUB fuses data from multiple SENTINEL sensors using TeamView and RFML tools, enabling large-scale correlation, geotipping and RFML model training. The HUB connects the full SENTINEL environment, live sensors, archived collections, and analyst tools into a unified workspace designed for precision signal analysis and mission continuity at the edge.



Analyst workflows include automated RFML-augmented signal classification and manual prosecution of unknown signals and AI model training

Basic Analyst Workflow

1. Connect to active SENTINEL sensors and/or ingest archived IQ files from HUB databases
2. Auto-index signals through RFML inference, or manually identify and extract, RF signals and events of interest
3. Align and compare multiple sensors in local or global network for analysis and geolocation
4. Build or refine RFML models directly in the local HUB environment
5. Propagate updated models and HUB databases to edge collectors, processors and command networks
6. All operations executed within secure Cross Domain Solution environments using SENTINEL’s Zero Trust Design

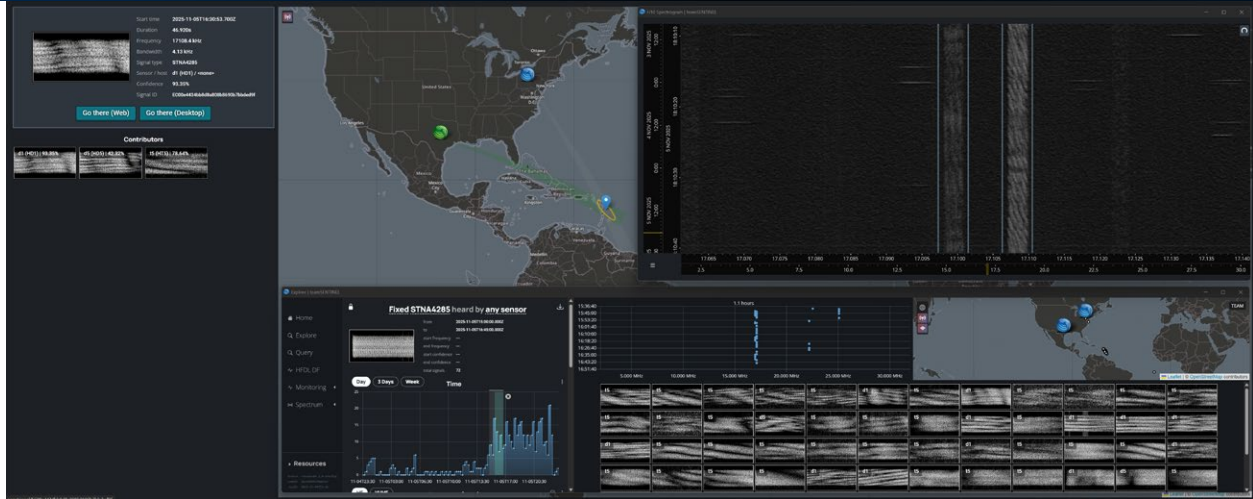


A complete solution for signal detection, processing, classification, and geolocation – empowering every mission



Local signal prosecution is improved in the SENTINEL HUB environment by leveraging HUB sensors and databases across the total network

Technical Highlights



AI/RFML-enabled signal classification provides data to intelligence conversion – at the edge – at mission speed

Data Engine

Parallel ingest and indexing pipeline optimized for multi-terabyte IQ datasets

Processing Model

Distributed compute architecture enabling replay, filtering, and correlation without live feed constraints

AI Integration

Embedded RFML for on-demand classification, tagging, and model training

Fusion Engine

Temporal and geospatial alignment across sensors for precision discovery and emitter behavior modeling

Interfaces

DISA-compliant APIs and secure protocols for sensor tasking, mission export, and analytic collaboration

About MPG – A Dover Company

MPG delivers spectrum-centric solutions at the speed of technology. We enable critical electronic warfare; intelligence, surveillance and reconnaissance; communications and space-based missions with ruggedized radio frequency components, subsystems and turnkey solutions. Our comprehensive portfolio encompasses the RF Spectrum (2 MHz to 40 GHz), the Solution Spectrum (low-noise amplifiers to complete signals intelligence systems), and the Domain Spectrum (land, sea, air and space). Government and commercial customers rely on our deep engineering expertise, seven manufacturing sites and Dover Corporation resources to deliver at spec, on time and within budget.

About Dover Corporation

Dover is a diversified global manufacturer and solutions provider with annual revenue of over \$7 billion. We deliver innovative equipment and components, consumable supplies, aftermarket parts, software and digital solutions, and support services through five operating segments: Engineered Products, Clean Energy & Fueling, Imaging & Identification, Pumps & Process Solutions and Climate & Sustainability Technologies. Dover trades on the New York Stock Exchange under "DOV."



**Connecting and protecting people
by delivering solutions
at the speed of technology.**

MPG Headquarters: 13033 Trautwein Road, Austin, TX 78737 USA | ph. 512-261-1016 | www.mpgdover.com | info@mpgdover.com

MPG Europe: Dover House, Units 10-11 Stirling Park, Bleriot Way, Clifton Moor, York YO30 4WU, England
ph. +44 (0) 1904 694250 | sales@bscfilters.com

©2025 - All Rights Reserved Company Proprietary. Data and specifications subject to change without notification. Doc no. TSOOverview-2025-11-30