

Maritime Domain Awareness: Unseenlabs Will Launch BRO-21 to Expand Its Radio Frequency Detection Constellation for Maritime Surveillance



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Unseenlabs announces the upcoming launch of BRO-21, satellite dedicated to maritime surveillance. BRO-21 will be launched as part of the upcoming CAS500-2 mission from Vandenberg Space Force Base in California, U.S. BRO-21 is integrated with SpaceX's Falcon 9 rocket via the German launch integrator Exolaunch.

BRO-21 is a Gen 1 satellite that expands Unseenlabs' radio frequency (RF) detection for maritime surveillance. Like the other satellites in Unseenlabs' constellation, BRO-21 is based on the company's monosatellite technology, with every satellite designed to operate independently from one another. It will detect RF signals emitted by vessels at sea, further enhancing Unseenlabs' ability to detect, geolocate, and characterize ships, including those that may not be visible through traditional tracking systems such as AIS.

RF data collected by Unseenlabs' satellites helps detect and monitor maritime activity, including undeclared, suspicious, and illegal operations such as:

- IUU fishing (Illegal, unreported and unregulated fishing),
- ocean dumping,
- operations near critical infrastructure such as subsea cables and offshore platforms.

Unseenlabs' solutions are used by government agencies, NGOs, and private-sector stakeholders, including maritime insurers, oil and gas companies and shipowners. Unseenlabs also works with S&P Global and public institutions through programs such as Copernicus with the European Space Agency (ESA).

Over the coming months, Unseenlabs will launch its first Gen 2 satellites, further enhancing the RF signals detection capabilities of its existing constellation. In addition to enhancing maritime domain awareness, they will extend Unseenlabs' RF capabilities to land-based applications, further expanding the reach of the company's technology.

About Unseenlabs

Founded in 2015, Unseenlabs is a France-based company with offices in Singapore and a team in the United States. The company operates space-based radio frequency (RF) detection capabilities for maritime domain awareness. Its customers include governments, NGOs, public institutions, and private stakeholders in the maritime sector worldwide. Unseenlabs employs 140 people and is a leader in space-based RF detection. For more information, visit www.unseenlabs.com

Media contact

Gaël PRIGENT - Communications Officer
07 45 07 72 44 - gael.prigent@unseenlabs.fr

