

PROCITEC®

HOUSE OF SIGNALS

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26.2 | 07/2026 (subject to modification)

go4grab-it

Mobile RF Monitoring, Direction Finding, Geolocation

go4capabilities





go4capabilities

**GO4CAPABILITIES COMBINES PROVEN
GO2 SOFTWARE, SELECTED SENSORS,
RUGGED HARDWARE AND TAILORED SERVICES
IN COMPLETE, READY-TO-USE PACKAGES
FOR RADIO-MONITORING,
COMMUNICATIONS INTELLIGENCE AND
ELECTRONIC SURVEILLANCE.**

READY FOR YOUR MISSION

go2signals gives you the software you need to monitor, process and analyze radio signals.

go4solutions goes one step further: we combine our proven software with selected sensors, rugged hardware and the right services to create one complete, ready-to-use solution.

WE BUILD WHAT YOU NEED. YOU FOCUS ON THE MISSION.

GO4GRAB-IT

go4grab-it is the first product in the go4 family. It brings together RF Monitoring, Direction Finding and Geolocation in one compact and flexible solution.

All components are integrated, configured and tested to work together – so you can start right out of the box.

ONE INTEGRATED SOLUTION

With go4grab-it, you get everything you need from a single source:

- **Software:**
The go2signals software suite forms the signal-processing core. While go2MONITOR handles RF acquisition, monitoring and processing, the Analysis Suite provides a comprehensive analysis toolbox in one user-friendly operating environment.
- **Sensors:**
Compatible receivers and direction-finding sensors monitor the RF environment
- **Hardware:**
Rugged mobile computing platforms deliver reliable performance wherever your mission takes you.
- **Services:**
Integration, configuration, training, support and mission-related services complete the capability.

YOUR MISSION. YOUR CONFIGURATION.

The configurations shown are examples: NARDA ADFA Antenna and NARDA SignalShark for direction finding, Signal Hound BB60D for RF monitoring and Getac hardware as the mobile computing platform.

go4grab-it is open by design and does not tie you to a specific sensor, receiver or computer manufacturer.

Need a different receiver, DF sensor, rugged notebook or tablet? No problem. We integrate compatible components through suitable interfaces and configure the solution to meet your operational and technical requirements.

Everything tied together by our go2signals software, you get a solution that is ready right out of the box, remains flexible when requirements change and protects your investment over the long term.



NARDA ADFA Antenna
Automatic direction-finding antenna



NARDA SignalShark
Robust outdoor unit for powerful direction finding and localization



Aaronia OmniLOG®PRO
Wideband Antenna



SignalHound BB60D
as a compact RF monitoring sensor



go2signals

Proven Software Core
for monitoring, processing,
direction finding and analysis



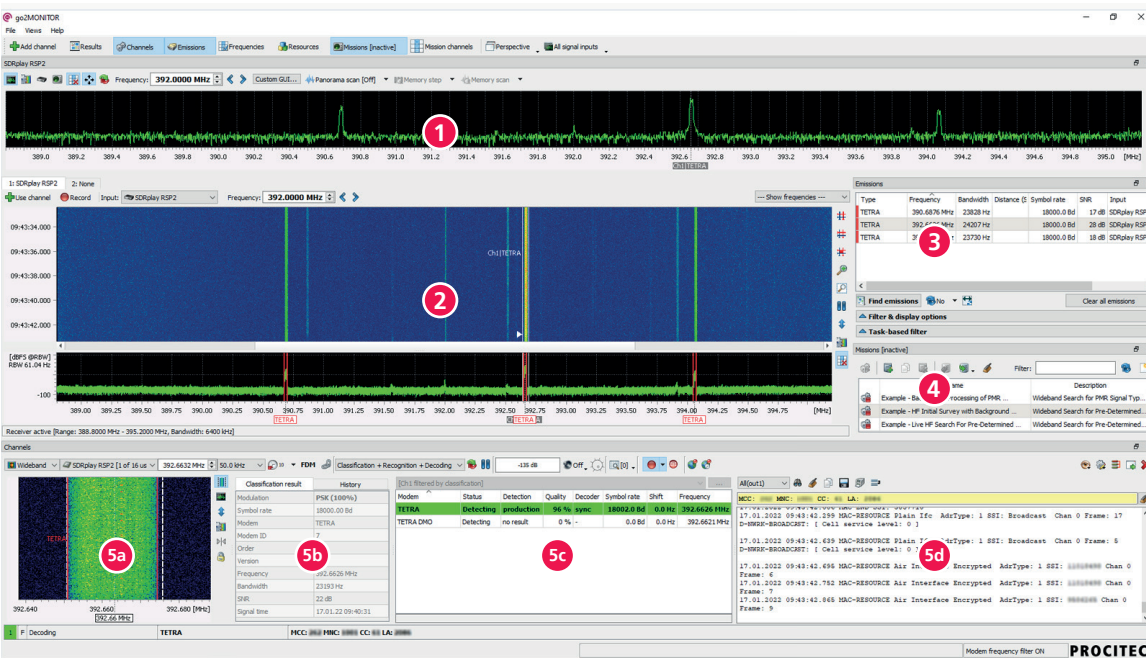
Getac Laptop
Ruggedised computing platform

RF MONITORING

Want to know what is happening across the RF spectrum? go4grab-it helps you detect relevant activity faster and turn RF signals into a clear situational picture.

Monitor complete wideband signal scenarios and process multiple signals and channels simultaneously – manually or automatically through task-based workflows.

- Detect and intercept signals manually or automatically
- Classify, record, demodulate and decode multiple signals in parallel
- Identify Signals of Interest faster and react more quickly
- Plan missions and define tasks, trigger conditions and start/stop criteria
- Support Indication & Warning by identifying relevant changes and new signal activity
- Record, structure and evaluate results
- Use an extensive decoder library covering Standard, PMR and MIL signal types
- Receive event-based alerts and popup notifications for relevant signal activity



- 1 Receiver input overview and control
- 2 Wideband streaming input spectrogram and spectrum
- 3 Wideband classifier results
- 4 Automatic monitoring mission control
- 5 Selected manual decoding channel:
 - a Input spectrogram
 - b Classifier results
 - c Automatic modem recognition
 - d Decoded text output and live listening

DIRECTION FINDING

go2MONITOR integrates direction finding directly into the signal-monitoring workflow. Bearings, emissions and sensor positions are combined in one operating environment, helping users move quickly from signal detection to an estimated transmitter location.

NARROWBAND AND WIDEBAND DIRECTION FINDING

Narrowband Direction Finding (NBDF):

Trigger single or continuous bearing measurements for selected signals.

Wideband Direction Finding (WBDF):

Receive bearings continuously across the monitored spectrum and automatically associate them with detected emissions.

Use NBDF and WBDF results in the same familiar user interface.

MANUAL OR AUTOMATIC OPERATION

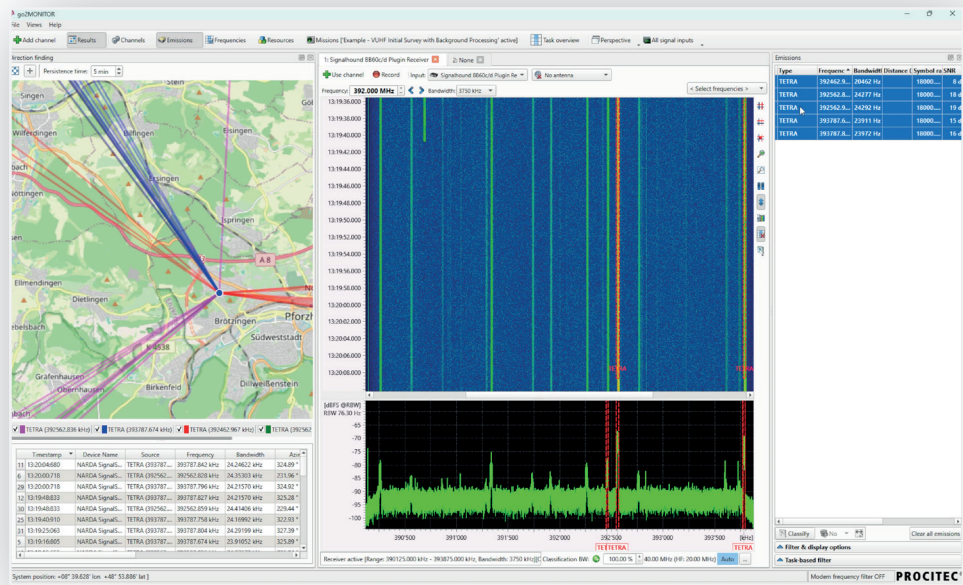
With compatible NBDF sensors, direction finding can be initiated manually for a selected signal or triggered automatically as part of a monitoring mission. WBDF sensors provide bearings continuously without individual measurement requests.

- Trigger a single bearing or continuous direction finding directly from a processing channel
- Initiate direction finding for selected emissions
- Automatically trigger NBDF measurements for detected Signals of Interest when configured
- Include direction finding as an action in automated monitoring tasks
- Automatically associate WBDF bearings with detected emissions

LIVE MAP-BASED VISUALIZATION

Direction-finding results are displayed on a georeferenced map as soon as they become available. Sensor positions, bearing lines and bearing tolerances provide operators with an immediate overview of the current RF situation.

- Display live and previously stored bearing results
- Visualize results from multiple sensors simultaneously
- Distinguish sensors, channels and emissions through color-coded bearings
- Select, filter, show or hide individual result sources
- Link bearings directly to the corresponding emissions
- Access detailed measurement information in a structured result view



Bearing lines of multiple emissions

LOCATION-BASED AUTOMATION

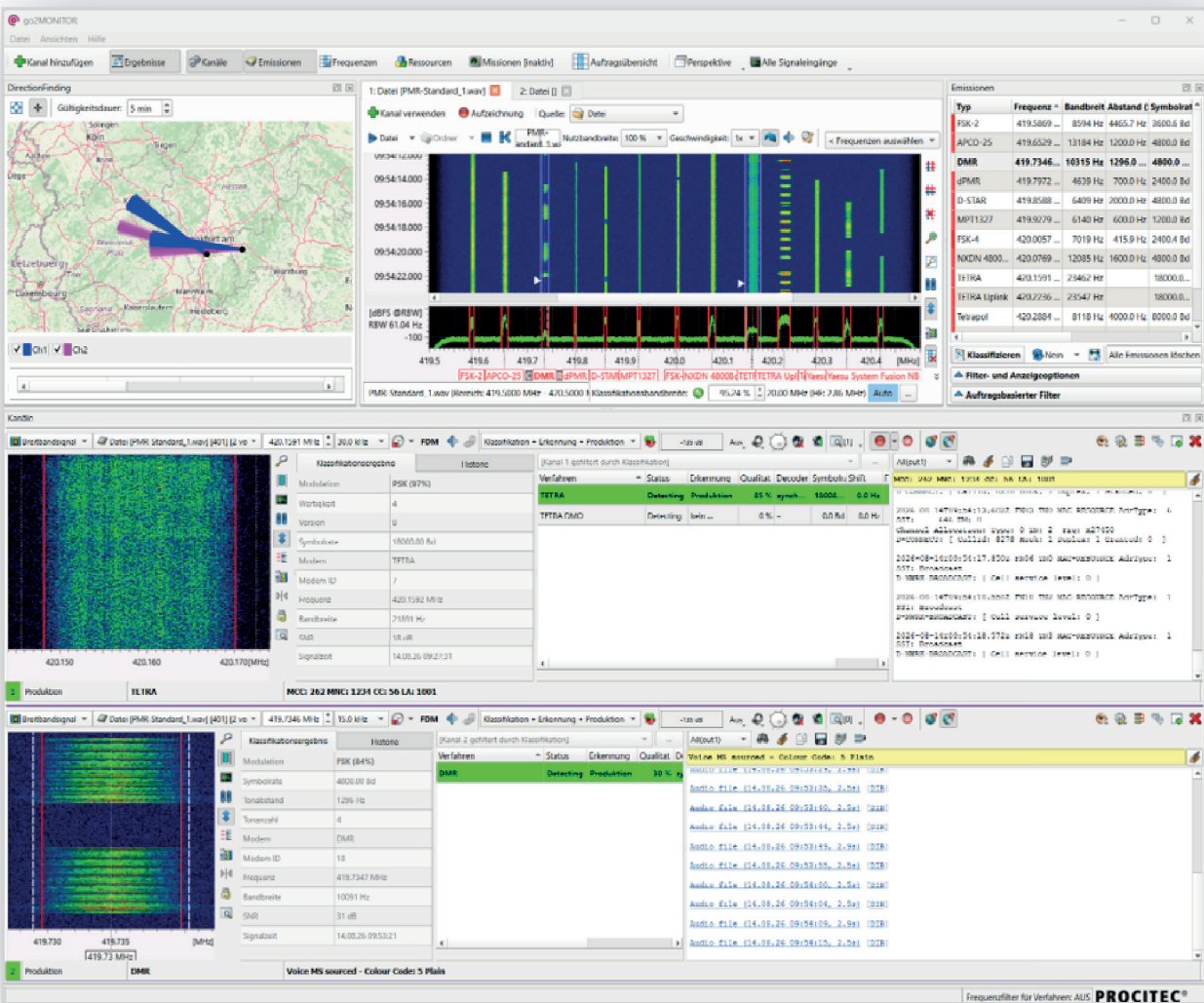
go2MONITOR can use direction-finding information to control automated processing workflows. Actions can be triggered when an estimated transmitter position is located within a defined area or when a bearing intersects a Region of Interest.

- Define mission-specific geographic areas
- Trigger processing based on emitter position or bearing
- Focus solution resources on operationally relevant regions
- Turn geospatial information into automated mission actions

MULTI-SENSOR GEOLOCATION

Networked operation turns individual sensors into a scalable, distributed capability. Spatially separated DF sensors share their bearing information through go2MONITOR and contribute to a common situational picture.

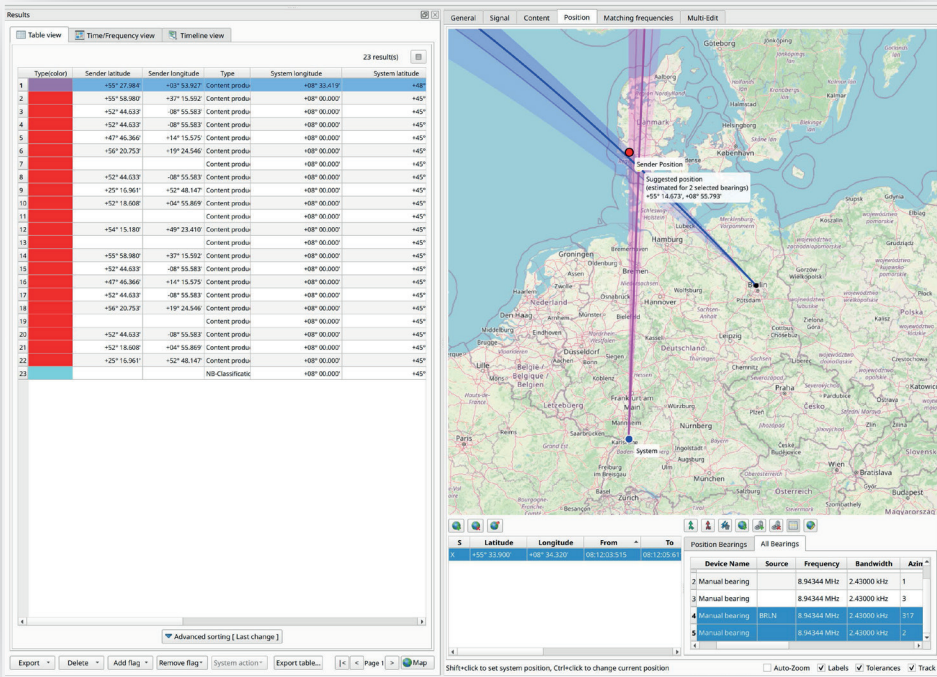
- Correlate bearings from distributed sensors
- Calculate an estimated emitter position
- Display the calculated position on a georeferenced map
- Visualize bearing and position accuracy
- Store latitude and longitude for subsequent analysis and export
- Track calculated positions over time



Color-coded visualization of different bearings

COMPLETE RESULT MANAGEMENT

- Direction-finding results are automatically stored together with the information required for evaluation, correlation and reporting.
- Results can be reviewed, filtered, correlated and exported together with other signal information, supporting a complete and traceable operational picture.



Calculation and display of emitter positions

MISSION-ORIENTED WORKFLOWS

- **Early Entry Survey:**
Automatically capture and assess the electromagnetic environment to establish an initial situational picture in a new area of operation.
- **Indication & Warning:**
Continuously monitor defined frequency ranges and signals to identify relevant changes, new activity or predefined events at an early stage.
- **Emitter Search:**
Follow a Signal of Interest from detection and bearing generation to an estimated position.
- **Area Protection:**
Focus monitoring on defined Regions of Interest and react when relevant RF activity is detected.

DESIGNED FOR FLEXIBLE DEPLOYMENT

- Tactical RF reconnaissance
- Spectrum monitoring
- Emitter search and geolocation
- Mobile and temporary monitoring missions
- Multi-sensor direction-finding networks
- UAV-supported RF monitoring with suitable solution configurations

