go2signals

RELEASE NEWS
VERSION 26.2

PROCITEC®
HOUSE OF SIGNALS

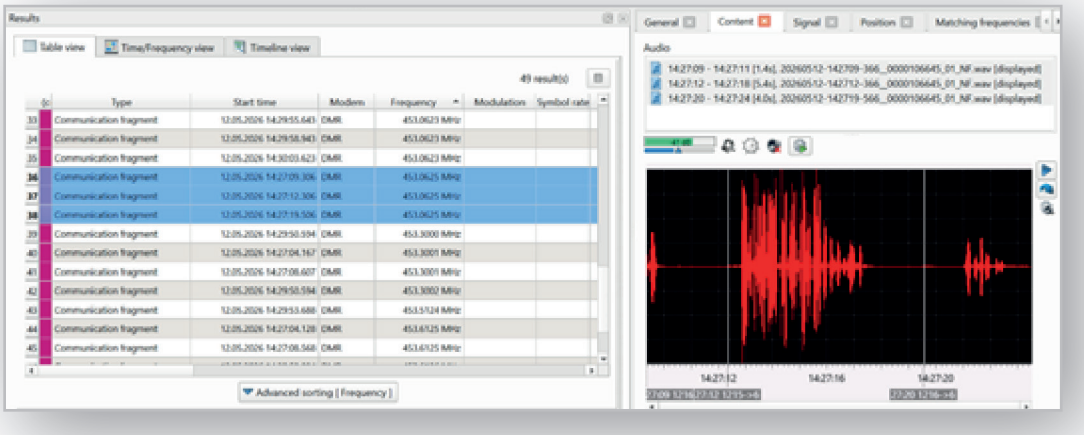
GO2MONITOR ENHANCEMENTS

NEW FUNCTION: COMMUNICATION FRAGMENTS

Communication data is automatically divided into small, time-related fragments that represent individual interaction segments between participants. This makes complex or overlapping communications easier to analyze and provides a clearer view of how participants interact with each other over time.

Fragments can combine information from multiple channels, including traffic and control channels, together with decoder-specific data. Decoded content such as audio is linked to the corresponding fragments and can be merged across fragments for seamless playback.

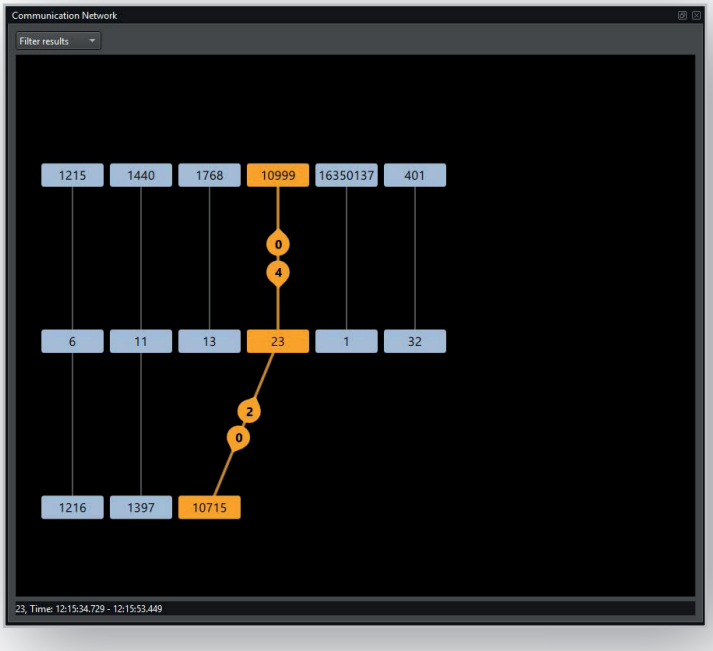
This structured approach improves the analysis of communication sequences and forms the basis for advanced visualizations such as the Communication Network View.



Communication split into fragments

NEW FUNCTION: COMMUNICATION NETWORK VIEW

A new Communication Network View has been added to the ResultViewer to visualize relationships between communication participants. Connections are displayed in a network-based format, making interactions and dependencies directly visible. This helps users quickly identify communication structures, key participants, and patterns.



Communication Network View with some participants

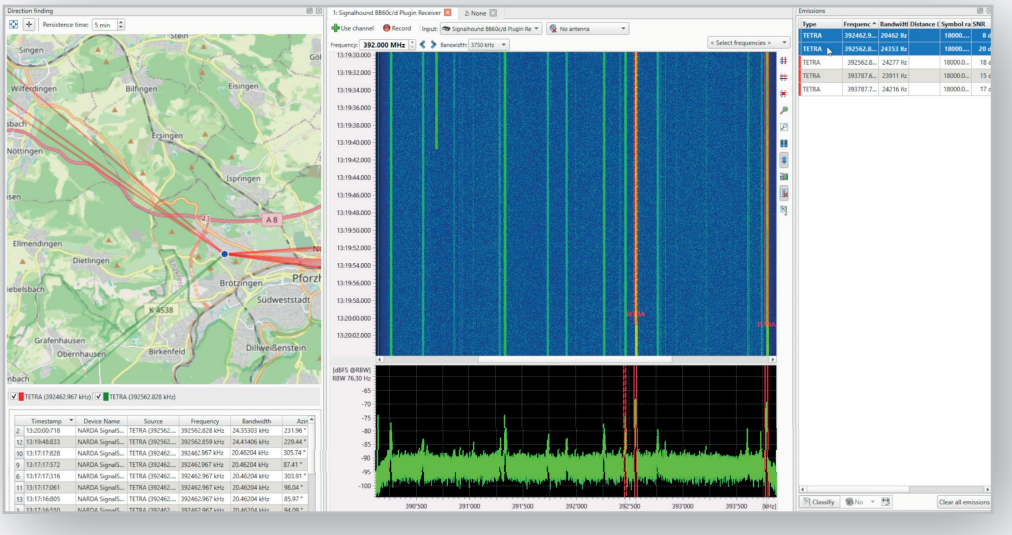
NEW FUNCTION: LIVE MODE IN RESULTVIEWER

The ResultViewer now includes a "Live" display mode that continuously updates incoming results as they become available. This enables near real-time monitoring of ongoing activities directly within the analysis environment. Operators benefit from faster situational awareness and can react more quickly to relevant events.

GO2MONITOR ENHANCEMENTS

ENHANCEMENTS: DIRECTION FINDING

With version 26.2, go2signals significantly expands its direction finding (DF) capabilities by tightly integrating DF into both signal detection workflows and result analysis. The new features enable a seamless transition from signal detection to geolocation, providing faster insights and reducing manual effort.



Automated DF on detected emissions

WIDEBAND DF INTEGRATION AND PLUGIN FRAMEWORK

Wideband direction finding sensors can now be integrated into the system, allowing bearing information to be directly associated with emissions detected during wide-band classification. This extends the processing chain by linking classification results with direction finding data.

To support flexible system extension, a Python-based plugin framework provides a standardized interface for implementing and connecting new sensor types, enabling efficient customization and future scalability.

RFHUNTER SENSOR SUPPORT

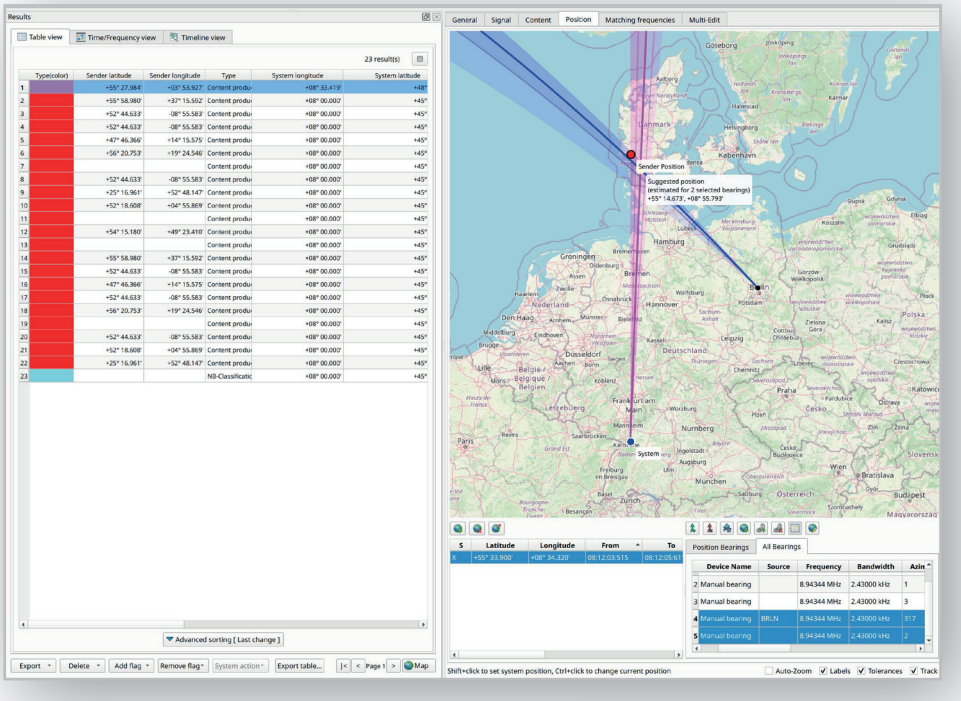
Support for RFHunter sensors has been added for both wideband and narrowband direction finding. This expands the range of supported hardware and allows more flexible system configurations. Operators can integrate RFHunter sensors seamlessly into existing DF workflows.

RF Hunter

GO2MONITOR ENHANCEMENTS

AUTOMATIC BEARING RETRIEVAL

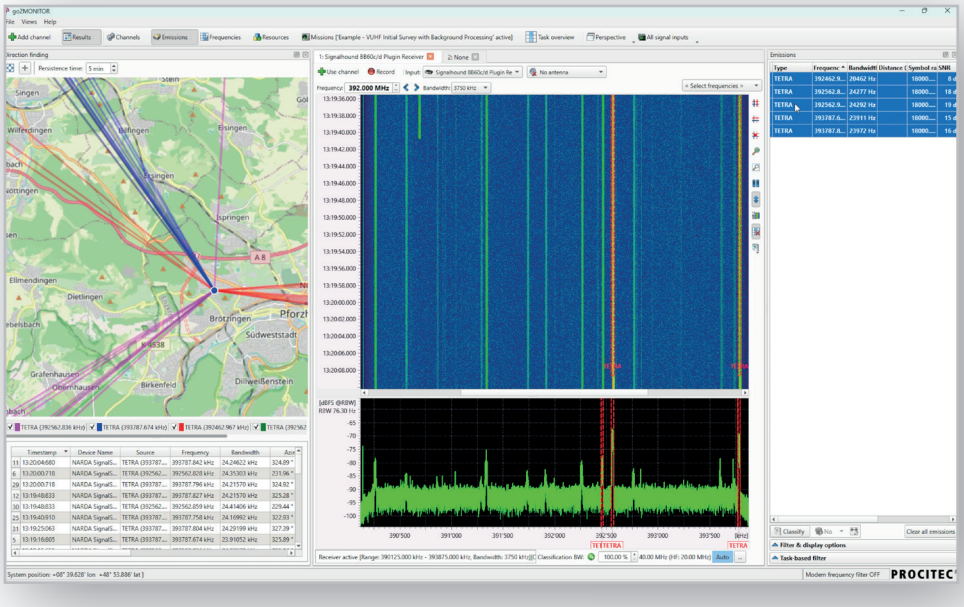
A new system function automatically retrieves bearings from available narrowband DF sensors for emissions detected during wideband classification. This ensures that direction finding data is consistently available without manual interaction. It reduces effort and improves the completeness of analysis results.



Visualization of a bearing result in the Position View

MULTI-SELECTION FOR DF ANALYSIS

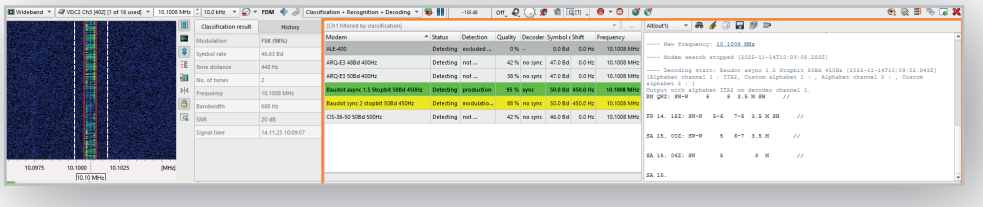
Multi-selection has been added to the Emission View and WB-Spectrogram, allowing multiple emissions to be selected and analyzed simultaneously. This improves efficiency when working with larger datasets and supports more effective comparison of signals during DF analysis.



Bearing lines of multiple emissions

DECODER AND DEMODULATOR ENHANCEMENTS

This release introduces a wide range of improvements across decoders and demodulators, further enhancing performance, flexibility, and detection accuracy in real-world signal environments. Building on previous advancements, go2signals 26.2 delivers more robust parameter estimation, improved synchronization and selectivity, and extended support for modern communication standards.



Decoding in Manual Mode in go2MONITOR

NEW DEMODULATOR FEATURES:

- LoRa: improved selectivity and robustness of parameter estimation logic
- Serdolik System v2: improved time and frequency synchronization and tracking improvedburst detection for FSK and ASK demodulators.

NEW DECODER DETECTION FEATURES:

- New detector: MEROD 100Bd 600Hz
- New detector: MEROD 200Bd 600Hz
- New detector: POL INTEL (various FSK, PSK and MFSK variants)

DECODERLIST

List of all available Decorders
www.procitec.com/go2signals-decoderlist

NEW DECODER FEATURES:

- New decoder: CIS MFSK-7
- New decoder: Bluetooth Low Energy
  - supports coded and uncoded format
  - only advertising channels (primary and secondary)
  - decoding of RemoteID
  - position of drone or UAV from RemoteID messages in ISO format
  - binary output to .pcap file
- Emit position from ADSC-C and CPDLC packets in position tag of XML output
  - ACARS
  - INMARSAT AERO-P
  - INMARSAT AERO-R
  - INMARSAT AERO-T
  - HFDL
  - VDL 2
- Support for communications post processing (communication fragments)
  - ACARS
  - AIS
  - ALE-2G
  - APCO-25
  - APCO-25 Phase2
  - DMR
  - DSC-Selcal
  - FLARM
  - HFDL
  - Mode-S/ADS-B
  - NXDN
  - Packet
  - TETRA
  - VDL 2
  - APCO-25
  - textual output restructured
  - added decoding of additional PDU/LC types
- DMR / DMR continuous
  - split audio file output based on sender switch (one file per PTT session)
  - Motorola TMS: interpretation of header bytes (sequence number, acknowledge, encoding)
- Iridium: parsing of access decisions messages in the downlink
- LoRa
  - improved parameter estimation strategies for faster detection and less false positives
  - allow manual setting of spreading factor and bandwidth (instead of default automatic mode)
- Mode-S/ADS-B: remove tabular output, message output on channel text1
- NXDN
  - new clearer text output with optional suppression of redundant meta information
  - receiving of complete data packets with file output
  - decryption of data packets
  - removed compact output on channel text2
- Serdolik System v2
  - file transfer decoding
  - long reversals are also used for identification
  - operator chat along with file transfer output on channel text1
- TETRA
  - minor changes in text output format
  - support for parallel per slot mac defragmentation
- pyDDL
  - removed old API for demodulator control and parameter changes (new API was introduced in v26.1)

RECEIVER SUPPORT

Version 26.2 further strengthens go2signals as a future-ready platform by expanding support for a wide range of modern and established receivers. This gives you the freedom to choose the hardware that best fits your mission while ensuring seamless integration and maximum performance.

- Added support for Rohde & Schwarz ESMW
- Added support for WinRadio G69DDC (Excelsior Ultra)
- Added support for IZT R5020

Rohde & Schwarz ESMW receiver

WinRadio G69DDC (Excelsior Ultra) receiver

IZT R5020 receiver

ADDITIONAL NOTEWORTHY CHANGES GO2MONITOR

- **Decoder-specific custom fields**
  Extended result presentation to include decoder-specific custom fields alongside
- **Enhanced filtering**
  Improved filtering capabilities in the ResultViewer, allowing filtering based on decoder specific custom fields and participant identifiers (sender and recipient).
- **Optimized Detail View updates**
  Detail views in the ResultViewer are now refreshed only when actual changes occur, reducing unnecessary updates and improving performance.
- **Faster database storage**
  Result storage performance has been significantly improved, reducing typical delays from over 5 seconds to a few hundred milliseconds in most use cases
- **New audio controls**
  Added new options in narrowband channels to enable or disable audio AGC and FM squelch.
- **Extended Resource View metrics**
  The Resource View now includes additional performance indicators to monitor database storage behavior.
- **Optimized offline map storage**
  The directory structure for offline map data has been completely redesigned to improve map display performance.

PROCITEC®

HOUSE OF SIGNALS

PROCITEC GmbH
Rastatter Strasse 41
75179 Pforzheim
Germany

Phone +49 7231 155 61-0
Fax +49 7231 155 61-11
sales@procitec.com
www.go2signals.de / www.procitec.com

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