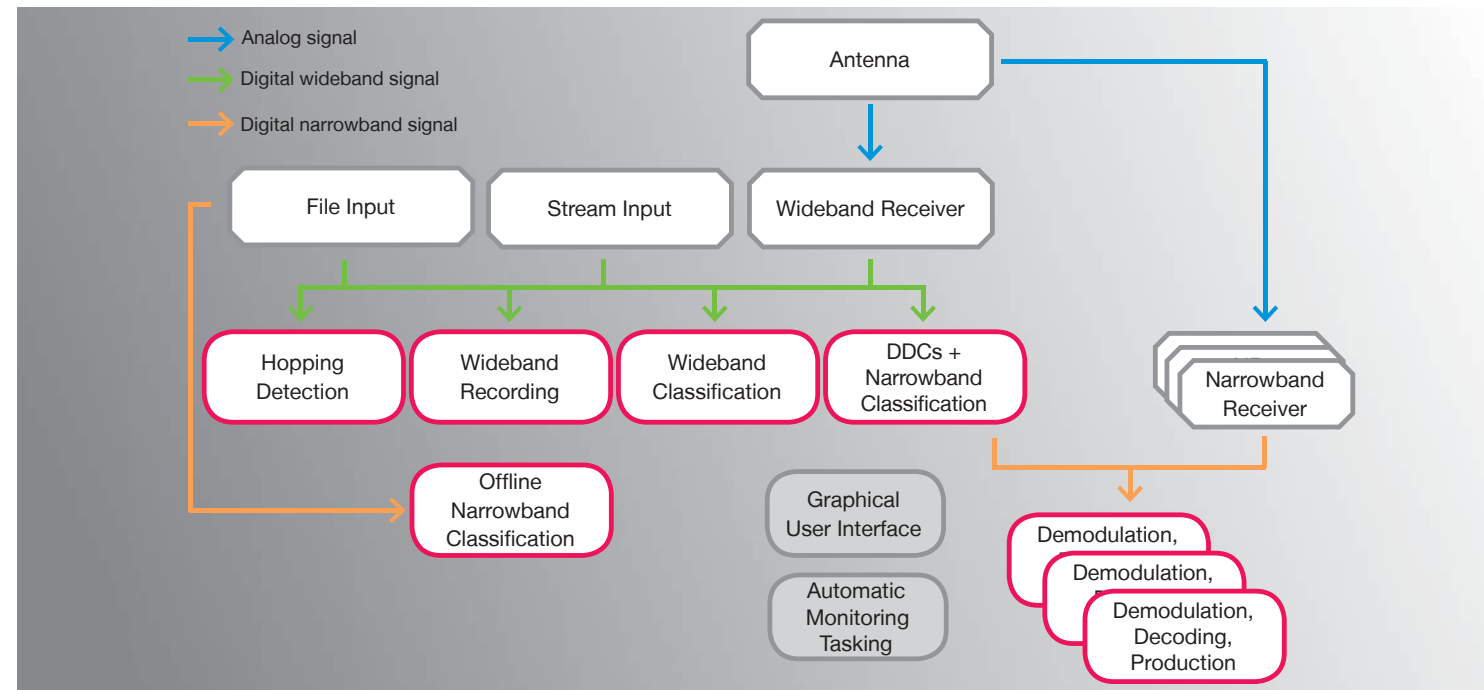


Select your functionalities and control the data flow

go2MONITOR consists of several backend subsystems containing various signal processing and control functionalities and a graphical user interface for interactive system usage.

All functions of the backend subsystem can be controlled by the networkbased remote control interface. The remote control interface is also used by the go2MONITOR GUI to provide its operations.



INTEGRATE SIGNAL MONITORING

ENHANCE
YOUR
SOLUTION

UPGRADE
YOUR
SYSTEM

Air / Land / Maritime

Stationary / Semi-mobile / Mobile

Manpack / Workstation / System

Detection

Decoding

Classification

Recording

Hopping Detection

Narrowband / Wideband

Digital / Analogue modes

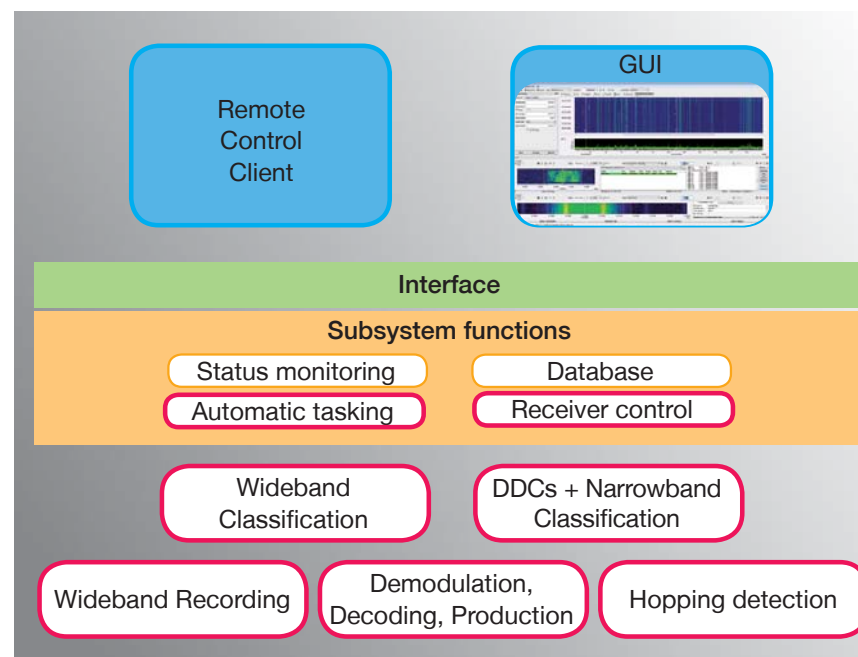
Automatic Monitoring / Tasking

Remote Control interface for easy integration

Remote clients communicate with the back-end subsystem by using TCP based network communication protocol. All commands, system status information and results are sent and received this way.

Each instance of each component can be controlled separately, but high-level commands which control multiple components are also available.

It is possible to control or monitor one go2MONITOR from multiple clients simultaneously.



Easy integration

High functionality



go2MONITOR FUNCTIONS: Easy to integrate, easy to customize

Classification | Detection, Demodulation, Production | Hopping Detection | Wideband Recording

Determine which signal processing and control options you want to integrate into your system.

Choose your integration level: Use go2MONITOR as desktop application or design your system according to your ideas. Integrate a single functionality or a bundle of options via the network-based remote control interface (API).



Integration Level

Design your system: Select options and functions

Desktop application

Install & use go2MONITOR as a desktop application extending your monitoring toolbox.

Frontend Integration

Connect go2MONITOR via IQ stream to your system. Use the go2MONITOR GUI for all signal monitoring operations.

Backend Integration

Connect go2MONITOR via API interface to your system. Add the functions you require to design your system. Multiple clients can use one go2MONITOR simultaneously.

Wideband Classification

- Detection of all emissions in the available frequency range
- Multi-stage classification concept
- Detailed measurement of signal parameters
- Modulationtype classification
- Direct detection of certain modems or modem classes

DDCs + Narrowband Classification

- Extraction of narrowband signals from a wideband input
- Record signal in a WAV file
- Classify narrowband signal continuously to determine its modulation type and parameters
- Demodulate each extracted signal by using some of the standard audio demodulators (CW, AM, USB, LSB, FM) in parallel
- Online and offline mode via API interface integration

Demodulation, Decoding, Production

- Reliable recognition, demodulation and decoding of signals
- Determination of technical signal parameters and characteristics
- Extraction of information about the transmission protocol and production of the content
- Processing signals faster than in off-line mode
- Adaptable by the customer (universal demodulator, Decoder Description Language DDL)
- Signal decoding to the content: text, audio, meta data, binaries etc.

Automatic Monitoring and Tasking

- Fully automated signal search and processing of complete frequency band
- Create tasks, set triggers and alarms
- Focus on SOIs or search for new or unknown signals

Wideband Recording

- Lossless wideband signal storage of up to 80MHz bandwidth (depending on the input signal and hardware configuration)
- Parallel calculation and storage of a wideband spectrum to enable fast GUI navigation
- Scheduled recordings
- Loop recording

NEW in 2018:

Offline Narrowband Classification

- Detect and classify narrowband signals from wave recordings to determine modulation type and parameters
- Control and results via commandline interface

NEW in 2018:

Hopping Detection

- Automatically detection of frequency hopping spread spectrum (FHSS) signals in a frequency band
- Automatic measured parameters like emission start/end, frequency range, dwell time, hop bandwidth, hop range, hop rate, ...
- Detect hopping emission types by parametermatching