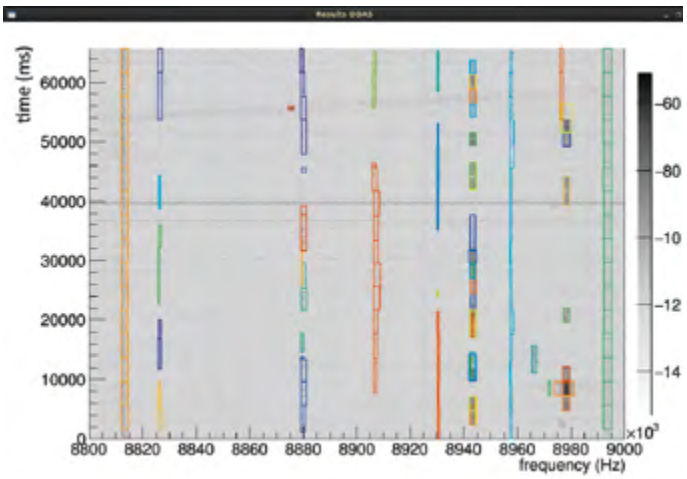
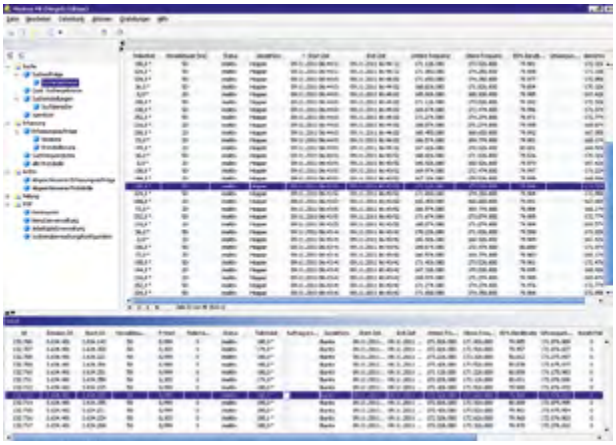
PLATH SIGNAL PRODUCTS

INTERCEPTION CONFIDENCE · DIRECTION FINDING ASSURANCE





MF HF VHF UHF SHF

DDA

Control & analysis software

all frequencies

The DDA (Direction-finding Data Analyzer) utilizes real-time big data analytics and high-performance COTS hardware platform to deliver Interception Automation. It operates across the entire frequency spectrum. Besides the pre-classification of fixed frequency signals, DDA automates some of the most challenging COMINT tasks, such as capturing Low Probability of Intercept (LPI), burst or frequency hopping signals even in a very dense signal scenario. By pre-processing at the system edge the DDA, provides signal meta data and makes the information streamable in real-time even over low bandwidth communication systems. The DDA is the key to automated remote operating of direction-finding services.

TECHNICAL HIGHLIGHTS

- automatic emitter detection and pre-classification (stationary, burst, hopper)
- massive data reduction due to intelligent noise reduction and elimination of disturbances
- real-time-processing of millions of bearings per second into signal meta data
- matching bursts can be recombined to a single hopper signal (optional)
- extended version detects up to 2000 hops/s (optional)

CUSTOMER ADVANTAGES

- enables wideband direction-finding in automated COMINT systems, by using automated real-time big data analytics
- Low Probability of Intercept (LPI), burst or frequency hopping signals can be identified automatically, even in a very dense radio frequency scenario
- The DDA does the work! – allowing your COMINT operators to focus effectively on signal analysis and the identification of suspicious or undefined signals / emissions.

Find out about our other products:

DIRECTION-FINDING RECEIVER | MONITORING RECEIVER | DIRECTION-FINDING ANTENNA | RADIO MONITORING ANTENNA | SIGNAL DISTRIBUTION | CONTROL & ANALYSIS SOFTWARE

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DDA	
Frequency range	0.5 MHz – 6000 MHz
Instantaneous analysis bandwidth	29.5 MHz (HF), 20 MHz (V/U/SHF)
Frequency/time resolution	125 Hz at 8 ms, 1 kHz at 1 ms (HF), 1 kHz at 1 ms, 2 kHz at 500 µs, 4 kHz at 250 µs, 8 kHz at 125 µs (V/U/SHF)
Maximum acquisition bandwidth	250 µs, 8 kHz at 125 µs (V/U/SHF)
Processing speed	up to 29,500,000 bearings/s
Data reduction	typically ≥1000 : 1
Result parameters for frequency stationary signals	center frequency, bandwidth, bearing, amplitude, S/N, time (start/stop of emission)
Result parameters for frequency hoppers	additionally: dwell time, bandwidth of hopper, bandwidth of single hop
Trigger threshold for emission detection	S/N ≥ 10 dB for frequency stationary emissions, S/N ≥ 15 dB for burst emissions
Maximum hopping rate for FHSS	up to 999 hops/s (extended: up to 2000 hops/s, the extended version is subject to export regulations)

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