

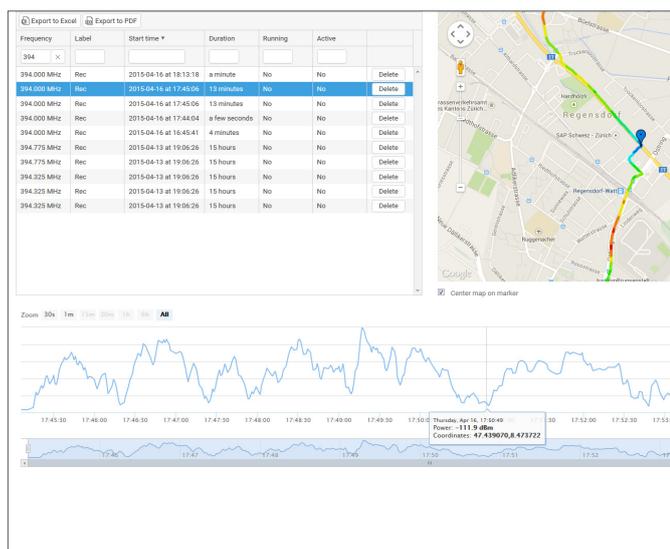
DECODIO DRIVE TESTS

Decodio is specialised in software-defined radio technologies and offers best-in-class spectrum analysis solutions for network monitoring and drive tests.

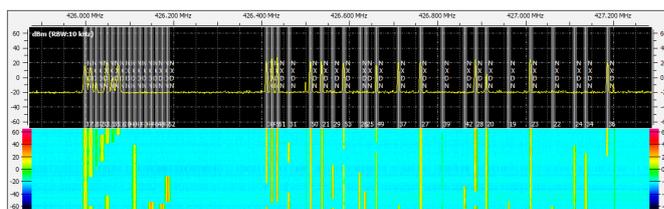
Extensive PMR protocol support and advanced, web-based analysis tools provide quick and accurate insight into network health and traffic.

HIGH THROUGHPUT

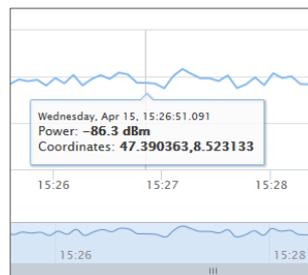
Real-time monitoring of 256 simultaneous channels over an instantaneous bandwidth of up to 50 MHz can be achieved on commodity hardware, offering unmatched spectrum analysis capabilities. The solution is based on multi-purpose receivers capable of streaming baseband IQ data and thus operates passively, in total independence of the network infrastructure. Multiple receivers can be used to increase the total bandwidth.



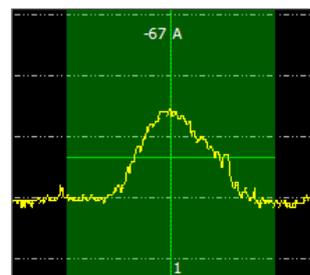
Interactive Map



Channelizing



Power



Squelch triggered recording

EXTENSIVE DIGITAL PROTOCOL SUPPORT

With full support for TETRA, Tetrapol, NXDN, DMR, dPMR and P25 in both uplink and downlink directions, all practical mobile radio networks can be monitored. Live voice output is also available from multiple channels simultaneously.

GEOLOCATION SUPPORT

Signal quality measurements can be coupled to GPS data, allowing for signal quality analysis in both time and space.

WEB-BASED FRONT-END

Thanks to a web-based front-end to the real-time spectrum monitoring system, data can be remotely accessed from a wide range of devices.

ADVANCED VISUALISATION AND REPORT GENERATION

Signal quality and power are plotted as time series and interactively coupled to a map displaying the corresponding position based on GPS coordinates, allowing for quick and easy analysis of large datasets. Reports can be exported in various formats including Microsoft Excel and PDF.

ANALOG RECORDING AND TRIGGERS

Analog signals can be recorded in either IQ or demodulated form, with live sound output. A squelch criteria based on real detector measurement can be set for each channel and used to trigger alerts and recordings with adjustable pre- and post-recording intervals.

LEVERAGING THE POTENTIAL OF SOFTWARE-DEFINED RADIO

Based on modern software-defined radio technologies, Decodio's solution sets new standards in network monitoring with the ability to analyse all available channels in the network simultaneously, as opposed to the traditional single-channel approach.

TYPICAL USE SCENARIOS

Drive Test, Network planning and verification, Interface detection

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