

Press Release

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RECONIQ revolutionizes signal intelligence with Safe-D and integrated AI modules

Hamburg, 5 May 2025 – RECONIQ announces a new patent for **Safe-D** – a high-performance emission database designed to meet the increasing demands of modern signal intelligence (SIGINT). Safe-D is available either in RECONIQ's intelligence control and analysis system (ICAS) as well as separate module or as the foundation of RECONIQ's integrator solution ENGINE - delivering unmatched speed, scalability, and operational independence.

Safe-D (Smart and Fast Emission Database) processes over 12,000 datasets per second, equaling more than 1 billion signal acquisitions daily, making it one of the most powerful domain specific solutions. Specifically optimized for SIGINT operations, Safe-D delivers search performance significantly faster than conventional COTS database solutions.

Complementing Safe-D with a set of combinable AI-driven modules that seamlessly integrate via REST interfaces even to 3rd party software. These modules enhance signal identification, reduce analyst workload, and improve resource efficiency—empowering users to manage more surveillance tasks with equal or fewer personnel.

Key modules include the Signal Finder, an AI-based tool that analyzes wideband IQ data to detect and identify signals in real time. Running on a standard GPU, signal finding processes up to 30 MHz bandwidth efficiently, delivering high-speed signal analysis capabilities without specialized hardware.

The Voice Activity Detection (VAD) module determines whether a demodulated signal contains human speech. It recognizes speech across all known languages - and even

unknown ones, ensuring no critical voice communication goes undetected. VAD supports formats like *.wav, *.mp3, *.m4a, *.wma and more.

Additionally, a Speech-to-Text module was designed specifically for the radio reconnaissance domain as an AI-enhanced transcription tool — based on RECONIQs software expertise and Whisper technology – to convert speech into text with high accuracy, even in noisy or challenging radio environments. It supports 60+ languages, offers near real-time transcription, and integrates seamlessly with ICAS or third-party systems.

The AI stack is fully on-premise designed and REST-based integration readiness guarantees maximum data control, flexibility, and rapid deployment in sensitive, tactical or strategic environments.

With Safe-D and AI-enhanced modules, RECONIQ empowers intelligence operators with the tools they need to act faster, more accurately, and with greater autonomy—pushing the frontier of precise, data-driven decision-making in SIGINT.

RECONIQ exhibits at the renowned international event AOC Europe from 6 - 8 May under the main topic 'EMO in Transition' in Rome. Everyone interested is invited to visit us at our booth D38 to discuss individual needs and applications with RECONIQ experts.

About RECONIQ

RECONIQ offers state-of-the-art software and software modules for intelligence systems. Automation and real-time data processing are key elements of our AI-powered solutions to support fast and informed decision-making. Thanks to our extensive expertise in software development and deep domain knowledge, we ensure seamless integration and interoperability, providing our customers with long-term operational benefits.

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