

## HEAD acoustics Test Solution Integrates with Rohde & Schwarz 5G NR Voice Service Testing

*Rohde & Schwarz combines the HEAD acoustics voice and audio quality analysis solution with its 5G test platform R&S CMX500 for verifying 5G mobile device voice and audio services.*

The modular *labCORE* hardware and the ACQUA software, combined with the comprehensive testing toolset of the R&S CMX500 from Rohde & Schwarz, allow voice services testing in 5G (VoNR) and 4G (VoLTE) networks. The powerful combination enables manufacturers of 5G-capable devices to reliably test voice quality early before market introduction.

HEAD acoustics has fully integrated the latest releases of all relevant standards bodies, such as 3GPP, GSMA, and PTCRB for testing and verifying the speech performance of 5G VoNR terminals. The HEAD acoustics solution includes testing with all speech codecs and standardized performance testing under packet loss and jitter conditions. The HEAD acoustics *labCORE* system connects to the R&S CMX500 through wired Ethernet using its internal IMS server's integrated IP forward mode, allowing users to forward the voice data of a call established to the *labCORE* system for detailed voice quality analysis.

The combination with the leading-edge Rohde & Schwarz solution allows 5G NR device testing in standalone (SA) and non-standalone (NSA) TDD and FDD modes. The R&S CMX500 supports 5G FR1 and mmWave (FR2) frequency bands and provides the required features for VoLTE and VoNR calls. The Bearer and Flow Monitor enables users to see various Quality of Service (QoS) flows and visualizes all audio properties, including bitrate and codec, within the flow stream.

Christian Schüring, Head of Sales Telecom at HEAD acoustics GmbH, states: "The combination of the HEAD acoustics test solution with the R&S CMX500 one-box design dramatically simplifies cabling and handling. This combination becomes an even more powerful, convenient, and comprehensive tool."

Christian Hof, Senior Product Manager of Mobile Radio Testers at Rohde & Schwarz GmbH & Co. KG, states: "The cooperation with HEAD acoustics facilitates the seamless integration of acoustics and radio transmission testing. It greatly adds value to our products and significantly simplifies our common customers' work."

For more information on the HEAD acoustics voice and audio testing solutions, please visit

[labCORE - Modular Multi-channel Hardware Platform | HEAD acoustics \(head-acoustics.com\)](#)

[ACQUA – Measurement and analysis software for testing voice quality and audio quality](#)

For more information on the R&S CMX500 5G one-box signaling tester from Rohde & Schwarz, please visit the [Rohde & Schwarz CX500 product page](#).

**About HEAD acoustics**

HEAD acoustics GmbH is one of the world's leading companies offering holistic sound and vibration analysis solutions. In the telecom sector, the company enjoys global recognition due to its expertise and pioneering role in developing hardware and software for measuring, analyzing, and optimizing voice and audio quality, as well as customer-specific solutions and services. HEAD acoustics' range of services covers sound engineering for technical products, investigation of environmental noise, speech quality engineering, consulting, training, and support. The medium-sized company from Herzogenrath near Aachen has subsidiaries in China, France, India, Italy, Japan, South Korea, the UK, the USA, and numerous sales partners worldwide.

**About Rohde & Schwarz**

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems, and networks & cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. On June 30, 2022, Rohde & Schwarz had around 13,000 employees worldwide. The independent group achieved a net revenue of EUR 2.53 billion in the 2021/2022 fiscal year (July to June). The company is headquartered in Munich, Germany.