

Service at Rohde & Schwarz
You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trail-blazers 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 90 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

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From voice to intelligence
Data without tolerance limits is not binding | Subject to change
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ROHDE & SCHWARZ

Make ideas real



TRANSFORM VOICE INTO OPERATIONAL INTELLIGENCE

AI-powered situational awareness
for modern air traffic control.

CERTIUM AI



Unlock new efficiencies:
www.rohde-schwarz.com/certium-AI



MANAGING GROWING COMPLEXITY IN AIR TRAFFIC CONTROL

Modern air traffic control relies on continuous interaction with dynamic information. Aircraft labels and electronic flight strips are actively used to issue, monitor and verify clearances.

As traffic volumes and systems complexity grow, maintaining a complete and consistent operational picture becomes increasingly demanding, placing additional pressure on controllers and systems alike.

CERTIUM AI – turning voice into operational intelligence

CERTIUM AI, part of the Rohde & Schwarz CERTIUM suite, extends established ATC communications systems with AI-powered capabilities.

It converts pilot-controller communications into structured, digital information in real time – directly in your existing workflows.

Operational value for your ATC environment

- ▶ **Clearer situational awareness in real time**
A more complete and reliable operational picture
- ▶ **Reduced manual workload**
Less routine input, more focus on critical decisions
- ▶ **Enhanced operational safety**
Early detection of inconsistencies and potential risks
- ▶ **More efficient and resilient operations**
Stable performance, even in complex traffic situations

Three layers of intelligence

CERTIUM AI processes voice communications across three connected layers – from speech to operational action.

- ▶ **Speech transcription**
Real-time conversion of voice into text
- ▶ **Speech understanding**
Interpretation of operational meaning (e.g. callsigns, clearances)
- ▶ **Speech integration**
Direct transfer into radar labels, flight strips and operational ATC systems

Voice becomes actionable information within your operational workflow.

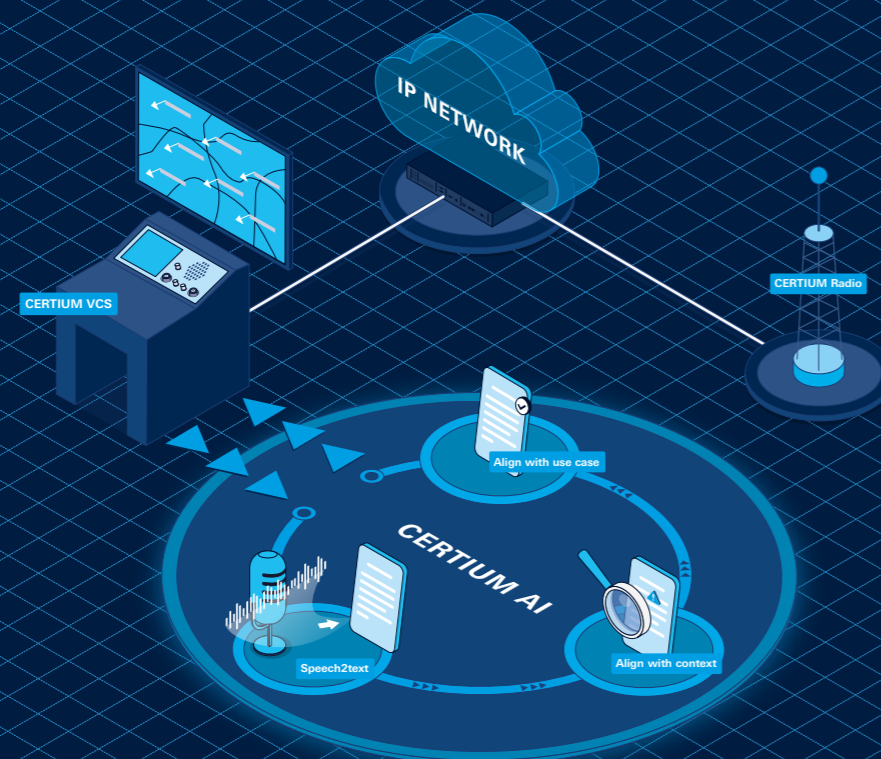
Combined layers ensure that voice communications are not only captured and understood but immediately applied within your operational environment. This creates a continuous flow from communications to execution – without additional manual input.

From insight to application

CERTIUM AI enables a range of practical applications directly within your operational environment.

- ▶ Callsign highlighting
- ▶ Label filling
- ▶ Flight strip maintenance
- ▶ Safety layer
- ▶ Readback error detection

HOW CERTIUM AI WORKS



Tailored implementation for your ATC operations

CERTIUM AI is implemented as a project-based solution, tailored to your operational requirements.

- ▶ Use-case driven design
- ▶ Integration into existing workflows
- ▶ Consulting, customization and validation

Built for integration and trust

Part of the Rohde & Schwarz CERTIUM suite, an all-in-one ATC communications environment, CERTIUM AI is designed for seamless integration into operational systems. It can also be deployed independently of existing system environments, ensuring flexibility across different infrastructures. Backed by decades of experience in ATC communications, it provides a reliable and future-ready foundation for integrating AI into your flight operations.