

KONTRON AI VOICE PLATFORM

USE CASE





THE NEED FOR AI VOICE

Voice intensive sectors such as **Telco**, **Healthcare**, **Railways**, **Airports**, **and Logistics** demand **secure**, **reliable**, **and intelligent communication**. Traditional voice systems are no longer enough—today's environments require:

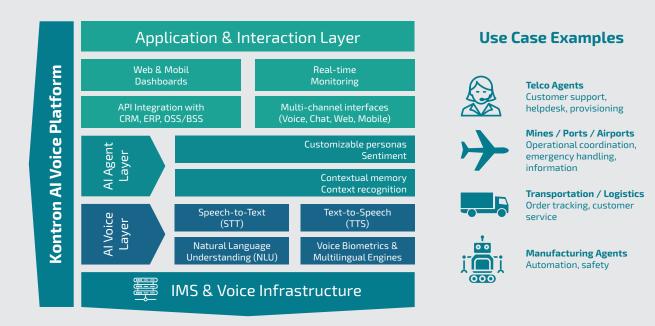
- **Traditional voice services** are now a commodity— enrichment with AI intelligenceis essential to create real value.
- Data privacy where sensitive information must stay local.
- Offline operability to ensure service continuity even without cloud access.
- Low latency and resilience, made possible by 5G networks.
- **Intelligent automation** to support decision-making in real time.

With the global shift toward **Al-driven services**, **IoT connectivity**, **and 5G-enabled networks**, organizations need a **voice platform that combines mission-critical reliability with Al intelligence** to meet the rising expectations of **speed**, **efficiency**, **and compliance**.

KONTRON'S 5G AI VOICE SOLUTIONS

Kontron introduces an **On-Premise AI Voice Assistant** with **Speech-to-Text and Text-to-Speech**, seamlessly integrated with our **cIMS and MCX platforms**. In combination with our **5G Core and RAN Mobile Private network**, the solution ensures **low latency, reliability, QoS, and preemption**—making it ideal for mission- and business-critical environments with automation based on AI agents, context summarization or suggestion for problem resolution based on embedded product manuals documentation.

With Kontron rich history and expertise in **IMS, MCX, and 5G Core**, we bring a **future-ready AI Voice Platform** that combines **mission-critical reliability** with A**I-driven intelligence** to transform communication and collaboration.



Key capabilities include:

- **Privacy-First**: Fully offline AI processing—no sensitive data leaves the local network.
- Seamless DECT replacement with mobile-first communication
- Modular & Flexible: Plug-and-play ASR, NLU, and TTS, adaptable to custom workflows.
- Real-time transcription gain more clarity in discussions and less human resources to write reports, notes etc.
- Voice Anywhere: WebRTC/SIP input for kiosks, control rooms, or embedded devices.
- Hands-Free & Reliable: Ideal for high-noise or hazardous environments.
- Smart Contact Centers: Al agents reduce costs, improve user experience, and manage peak loads.
- Offload repetitive tasks to AI; experts get more time for important tasks
- **Hands-free access**: Connect with healthcare records, customs, freight, or logistics systems.

Your Benefits

- Telco: AI-powered Customer Center enabling task automation and self-provisioning
- Healthcare: Patient record lookups, medical documentation, and burnout reduction.
- Defense & PPDR: Secure tactical communication and operational queries.
- Rail & Airports: Incident response, coordination, and traffic data access.
- Enterprises: Business-critical DECT replacement and OTT voice with AI enhancements.

WHY KONTRON?

Kontron's 5G, cIMS and Al Voice platform is optimized for **industrial-grade performance**, **low power edge deployments**, and **open integration** with third-party automation systems. Combined with our deep experience in embedded systems, telco software, and industrial computing, Kontron is uniquely positioned to support manufacturers on their **Industry 4.0 and digital transformation journey**— starting with a compact **Starter Pack** and scaling to full-factory coverage.

