

VoxShield

AI-powered vocal camouflage
for strategic transmissions

powered by



Protect your communications against voice deception

CandyVoice

- Expertise in digital voice processing
- Innovative Voice Technologies provider

Envisioned Modes of Collaboration

- Provider of innovative voice-technology components
- Specialized subcontracting
- Collaboration with operational units
- Partnership within the ecosystem

Military Credentials

- TRT: development of a military digital radio modem with frequency hopping
- Thales: integration of the TETRA vocoder
- Past clearances: *Secret Défense* and NATO security clearance

Observation

- The voice contains vocal biometric data
This data allows the identification of the speaker
- The voice is part of the personal data that can be misappropriated and used fraudulently
- Lack of effective and intelligible solution on the market

Definition of vocal anonymization

Process of modifying vocal parameters aimed at:

- Removing users' vocal biometric information.
- Generating a generic anonymized voice that remains easily understandable.

Value proposition

Protect your users' privacy in real-time by removing their vocal biometric data during sensitive transmissions.

Common features of the technological building blocks

- Proprietary technologies with high TRL (Technology Readiness Level)
- Operate locally (no cloud dependency)
- Real-time performance
- Low computational requirements
- Can operate independently or in synergy
- Simple and intuitive interfaces
- Technologies adaptable to specific needs or use cases (customization options available)
- ITAR-free technology
- Technology demonstrations available upon request

Integration options

- Locally or on a server
- In a Docker container
- Cross-platform support (all major operating systems)
- Compatible with ARM processors (easily integrable into any hardware, e.g., digital radios)
- Runs on embedded processors (no need for GPU cards)

Innovation / Competitive advantages

- Irreversible process
- Operates in real-time
- Anonymized voice remains natural and easily understandable for humans and speech recognition systems
- Significantly reduces the computational power required by ASR systems through learning and the use of a single generic anonymized voice
- Can be integrated into any system and small processors (e.g. ARM)

Competing solutions

- Voice transformation : natural voice rendering but reversible
- Irreversible voice transformation : voice alteration and incompatible with ASR
- Cloud services : lack of confidentiality and security
To date, no company (except CandyVoice) offers a reliable, real-time voice anonymization service.

Technology Readiness Level (TRL) : 7

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