

# Deepfakes & AI fraud — voice, video, style

AI-generated voices and videos are production-ready for everyday fraud in 2026. We show what is technically possible, how to recognise it despite that — and which processes genuinely protect against voice-to-voice attacks.

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Source: [awareness-as-a-service.com/en/resources/threats/deepfakes-ai](https://awareness-as-a-service.com/en/resources/threats/deepfakes-ai)

## What is AI-based fraud and deepfakes?

**Deepfakes** are AI-generated audio, video, or text content that imitates a real person. Until a few years ago this technology was accessible only to specialist labs; since 2024, high-quality voice and video fakes have been producible in minutes with commercial SaaS tools — using just a few seconds of publicly available audio.

For organisations, **voice cloning** is the most immediately relevant threat: attackers can clone the voice of a CEO, CFO, or board member from public

interviews, webinars, or podcast appearances and use it for fraudulent calls. In 2026, such voices can be generated in real time — the conversation sounds natural, with pauses, filler sounds, and emphasis.

**AI-generated emails** are the second front: language models craft convincing text in the style and tone of the impersonated person — without spelling mistakes, without the unusual phrasing that used to serve as a phishing indicator.

## At a glance

01

### Real-time voice cloning is reality in 2026

Attackers can use someone else's voice in a live phone call — built from training data that is publicly accessible (YouTube, podcasts, press conferences).

02

### The detection boundary has shifted

Classic detection markers (spelling errors, clunky phrasing) no longer apply to AI-generated content. Procedural controls gain importance over content analysis.

03

### Authentication beats trust

Whether someone sounds like the CEO is irrelevant — if the process demands out-of-band confirmation. Process protects where the senses fail.

## How to recognise deepfakes and AI fraud



### Subtle lip-sync issues

In video deepfakes, lip movement does not always precisely match the audio — especially during fast speech or consonants.



### Audio artefacts on filler sounds

"Um", "er", and spontaneous speech pauses often sound slightly artificial in cloned voices, or are absent entirely.

**Unusual eye movement or blinking**

Earlier video deepfakes barely blinked. Current models have improved this, but unnatural gaze patterns and facial-edge blur remain indicators.

**Lack of shared-experience knowledge**

A genuine manager knows the joint project, the last meeting, the joke from the team away day. A deepfake call deflects such questions or stays vague.

**Unexpected request in familiar voice**

The voice sounds like the CEO — but the CEO would never call to directly instruct a transfer. The content contradicts the known behavioural pattern.

**Video call without video or "technical problems"**

If someone claims their camera is broken, that may be an attempt to avoid video verification.

## How to protect yourself

### For employees

- **Evaluate content before trusting the voice:** Does the request sound typical for this person? Does it fit known processes? A familiar voice does not replace procedural controls.
- **Agree a code word:** With close colleagues and your own manager, agree a personal code word that can confirm identity in a genuine emergency.
- **Be sceptical of video calls:** Stuttering image, camera refusal, poor connection — these are signals that justify verification through a second channel.
- **Never decide under time pressure:** Deepfake calls often combine impersonation with urgency. Asking follow-up questions, calling back, or looping in a colleague is legitimate and professional.

### For administrators

- **Out-of-band verification as a process standard** for all transactions or changes instructed by call or video.
- **Deepfake detection tools** for critical video meetings are worth evaluating — still maturing, but useful as a supplementary layer.
- **Deepfake awareness training** in the security awareness programme — many employees still underestimate what is technically possible in 2026.
- **Social media monitoring:** Executives who speak frequently in public videos (management, PR leads) inadvertently create training data. Raise awareness of this risk dimension.
- **Bank account change and large-transfer processes** must be designed so they can never be triggered on the basis of a single channel.

## Real cases

### CASE 01 · BANK · DE · Q3/2025

A financial institution received a video call apparently from the CFO of a corporate client, authorising an urgent transfer of EUR 2.8 million. The face was convincingly reproduced; the voice nearly perfect. Two bank employees approved the transaction.

**Damage:** EUR 2.8 million · **Detection:** the real CFO called two hours later about a separate matter · **Lesson:** Video conference identity is not sufficient for large transactions. Out-of-band confirmation via a separate phone line or in person is mandatory.

### CASE 02 · MACHINE MANUFACTURER · CH · Q4/2025

Attackers cloned the CEO's voice from a trade-fair presentation available on YouTube. The CEO fraud call to the head of accounting was content-precise (current project names, supplier relationships). She transferred CHF 125,000 before the real CEO was reachable.

**Damage:** CHF 125,000, reversal failed · **Detection:** the CEO called 90 minutes later · **Lesson:** Public video appearances create deepfake training data. Awareness and processes must keep pace.

## What to do if it happens?

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### THE FIRST 15 MINUTES

1. **Stop the transaction** if possible — call your bank immediately (transfer recall).
2. **Document the incident:** Recording of the call (if available), timestamp, content log.
3. **Inform IT Security and management** — deepfake incidents are often part of coordinated attacks.
4. **No public communications** before alignment with legal — deepfake allegations against external parties have legal consequences.
5. **File a police report:** Deepfake fraud is criminal in both Germany and Switzerland; law enforcement is developing increasing expertise.
6. **Sharpen prevention measures immediately:** Review and communicate out-of-band processes.

## Frequently asked questions

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### Can I detect a cloned voice with my own ears?

In many cases, no longer reliably. Current voice cloning models achieve a quality at which even close associates are uncertain. Hearing is not a reliable detection instrument — processes must compensate.

### How much audio material does an attacker need for voice cloning?

Current models require only a few minutes of quality audio. Executives who speak regularly in podcasts, webinars, or press conferences are effectively providing publicly accessible training data.

### Are there technical detection solutions?

Yes — but they represent an ongoing race between attack and defence. Deepfake detectors recognise current models but are overtaken by new ones. They are a supplementary tool, not a reliable primary protection.

### Can AI-generated emails be identified by style?

Barely any more — and that is the core challenge. Earlier phishing emails had spelling errors and poor style as detection markers. AI-generated text is grammatically correct and stylistically adapted. The focus must be on content and context, not language quality.

## Related topics

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Deepfakes make CEO fraud more convincing and phishing attacks harder to detect. The combination

of social engineering and AI is the most important threat development of the coming years.