

# AVIRE DCP: Reliable & future-proof DTMF to digital conversion, right at the source

## What is DTMF to Digital conversion?

Dual-tone multi-frequency (DTMF) signals are used for emergency and test calls in lifts. Traditional transmission methods, such as transparent gateways, often cause:

- Signal distortion in mobile networks.
- Corruption at PSTN (Public Switched Telephone Network) handover, leading to failed test calls and non-compliance.

### Transparent Gateway



## What is digitalisation with our DCP range?

- Unlike standard gateways, AVIRE's DCP (Digital Communication Platform) routes technical calls as data sessions over mobile networks and the internet rather than through PSTN. This method ensures seamless, lossless transmission.
- Meets EN81-28 standards for reliable 3-day test calls.
- Uses MQTT (Message Queuing Telemetry Transport) that provides highly secure tunnel via encrypted TLS (Transport Layer Security), the latest IoT standard, thus eliminating 2G voice transmission risks.
- Separate voice & data channels prevent interference, ensuring signals arrive intact.

### Digitalisation with DCP



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# What is digitalisation at the source?

- When used with a Digital Audio Unit (DAU) instead of an analogue telephone, DTMF tones are digitised immediately.
- This enables upstream digitalisation of the communication system, reducing transmission errors.

## Digitalisation with DAU



## Why choose AVIRE DCPs over transparent gateways?

Feature	Transparent Gateways	AVIRE's DCP
DTMF Transmission	Over 2G voice (prone to distortion)	Digital packets over 4G/VoLTE
2G Phase-Out Impact	Calls may fail	Future-proof with IP transmission
Regulatory Compliance	At risk due to signal corruption	EN81-28 compliant
Security	Standard GSM encryption	TLS-encrypted MQTT tunnelling

**SECURE. RELIABLE. FUTURE READY.**

Upgrade today for seamless, compliant, and loss-free DTMF transmission!

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