TACTIRON
DIGITAL COMMUNICATIONS



Every second. Every crew. Always connected.

Instant, encrypted communications for ambulance, fire and rescue crews and control rooms

Encrypted voice · Live GPS · SOS & man-down · Nearest-unit dispatch · Call playback

BUILT FOR Ambulance & EMS · Fire & rescue · Private response · Event medical

PREPARED BY TACTIRON DIGITAL COMMUNICATIONS

Faster response, safer crews on every call

Instant communications for the moments emergency response is most at risk

Emergency crews are judged in minutes. The nearest unit has to be found, briefed and moving at once, and the control room has to follow every vehicle until the patient is handed over. On scene, responders face crowds, traffic, fire and violence, and they need one button to get help or bring in backup.

Where response operations are exposed

Risk point	What goes wrong today	How Tactiron Digital Communications responds
Slow dispatch	Calls relayed by phone, one crew at a time	One press reaches the nearest crew, a whole area or every unit at once
Unknown unit location	Control room guesses which ambulance is closest	Live GPS map of every vehicle and responder, updated in real time
Responder in danger	Crew member assaulted or injured on scene with no quick way to call	One-touch SOS and automatic man-down send voice and location together
Radio dead zones	VHF/UHF fails between towns, in basements or dense housing	Multi-network cellular switches to whichever network has signal, with a digital mobile radio (DMR) add-on for no-signal areas
Multi-agency incidents	Ambulance, fire, police and security on separate systems	Temporary shared talk groups for joint incidents, set up in seconds
Incident review	No record of what was said, when or where	Call playback, GPS history and trip reports for clinical audit and insurers

One channel for crew, vehicle and control room

Handhelds, ambulance and fire-appliance terminals and the desktop dispatcher share encrypted talk groups. Dispatchers reach one crew, one station or every unit, and track every vehicle and responder on one map. AES-256 encryption keeps patient details and incident locations private.



An emergency call, step by step

What the crew and control room see at each stage

Stage	Crew	Control room
01 **Shift start**	Crew checks in on the handheld; near-field communication (NFC) tag in the vehicle confirms crew and unit	Units appear live on the map, grouped by station and talk group
02 **Dispatch**	Call received by group or private push-to-talk (PTT); acknowledged with one press	Dispatcher picks the nearest free unit from the live map and briefs it by voice
03 **En route**	Driver talks hands-free through the in-vehicle terminal	Live tracking; reroute or reassign as the situation changes
04 **On scene**	Remote speaker or earpiece keeps hands free; SOS and man-down active	Can listen in on alert; backup called by group PTT
05 **Major incident**	Crew joins a shared talk group with fire, police and security	Dispatcher patches all agencies into one temporary group
06 **Handover & close**	Hospital handover confirmed by PTT; NFC scan at the facility	Full call record: route, timings and voice playback for audit

Cellular PTT vs conventional radio for responders

Feature	Cellular PTT	Conventional VHF/UHF radio
Range	Works wherever mobile data is available, in the city or on the highway	Depends on terrain, antennas and repeaters
Dispatch visibility	Live GPS map, geofencing and trip reports built in	Usually voice only
Responder safety	SOS, man-down and listen-in on every device	Varies by model
Security	Encrypted voice and central user management	Analogue is easily scanned; encryption varies by model
Resilience	A digital mobile radio (DMR) add-on lets crews talk directly to each other when there is no signal	Works without a network, but each site needs assessing first
Scaling	Add a unit or station in minutes; no masts to build	Infrastructure, licensing and support

One platform for every type of emergency service

Configured for each kind of responder

01

Ambulance & EMS

Nearest-unit dispatch, hospital handover by PTT and a full record of every call.

02

Fire & rescue

Loud-scene audio, rugged IP68 handhelds and off-network radio inside buildings.

03

Private emergency response

Armed and medical response units tracked live, with SOS for every officer.

04

Event & venue medical cover

Temporary talk groups for stadiums, concerts and marathons, set up per event.

05

Disaster & humanitarian teams

One subscription and one system across every country you operate in.

06

Hospital & patient transport

Coordinate transfers between facilities and see every vehicle on one map.

Deployment & support

01 Rollout planned around your stations, vehicles and shift patterns, with installation coordinated per vehicle.

02 Talk groups set up to match your stations, areas and mutual-aid partners.

03 Crew and control-room training: calling, talk groups, SOS, man-down, dispatch and multi-agency groups.

04 Local technical and warranty support.

Why responders switch

01 **Faster dispatch:** the nearest unit is found and briefed in one press.

02 **Safer crews:** every responder can raise the alarm, even if they cannot speak.

03 **Better records:** every call, route and timing is kept for audit and training.

Trusted partners include

TANESCO

G4S

GARDAWORLD

SGA SECURITY

EPIC SECURITY

MAASAI WATCHERS

■ IMPORTANT

Tactiron Digital Communications supports your crews and control room. It works alongside, and does not replace, the public emergency numbers in your country.

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