TACTIRON
DIGITAL COMMUNICATIONS



Every well. Every platform. Always connected.

Tactiron One: instant, encrypted communications for field crews, offshore teams and control rooms

Encrypted voice · Live GPS · SOS & man-down · Satellite & private LTE · Radio gateway

Built for Upstream fields · Offshore platforms · Refineries · Pipelines

Prepared by Tactiron Digital Communications

Faster answers and safer crews at every site

Instant communications for the moments oil and gas operations are most at risk

Oil and gas work is spread out and runs around the clock. A pipeline patrol can be hours from the nearest town, and an offshore crew relies on the control room for every lift and every change of plan. When something goes wrong, the control room has to know who is on site, where they are and whether they can still answer. Each worker needs one button that brings help.

Where oil and gas operations are exposed

Risk point	What goes wrong today	How Tactiron One responds
Lone work	Operator alone on a wellpad or pipeline section, with no one checking in	Automatic man-down alert when a worker stops moving, and one-touch SOS with location
No coverage	Remote fields and offshore sites beyond public mobile networks	Runs over private LTE, Wi-Fi or satellite; tested over Starlink, Iridium and Thuraya
Separate radio fleets	Operator, contractors and control room on different radios	TETRA, DMR and VHF/UHF networks joined to the same talk groups through a gateway
Shift handover	Notes passed by word of mouth and lost between crews	Group chat with photos and documents keeps the record with the talk group
Emergency alarm	Alarm raised, with no quick view of who is where	One call reaches every talk group, and the live map shows each handset
Incident review	No record of what was said, when or where	Call playback, GPS history and an audit log for HSE investigations

One channel from the wellsite to the control room

Handhelds, rugged phones, vehicle units and the desktop dispatcher share encrypted talk groups. Dispatchers reach one crew, one site or every person on the asset, and follow every handset on one map. The platform can be hosted on-premise or in-country, so operational traffic stays under your control.



A shift on site, step by step

What the crew and control room see at each stage

Stage	Crew	Control room
01 **Shift start**	Crew logs on to the handheld and scans the near-field communication (NFC) tag at the site entry	Every handset appears on the map, grouped by site and talk group
02 **Job briefing**	Toolbox talk by group push-to-talk (PTT); permit photos shared in chat	Supervisor briefs each work party in its own talk group
03 **Field rounds**	Rounds logged by NFC checkpoint scans; hands-free voice for busy hands	GPS patrol monitoring shows the progress of each round
04 **Lone work**	SOS and man-down active at remote wellpads and pipeline sections	Alert arrives with voice and location; nearest crew sent by PTT
05 **Emergency**	Crews hear the alarm call and move to their muster point	Dispatcher calls all talk groups at once and checks the live map
06 **Handover**	Outgoing crew posts notes, photos and open jobs to the group chat	Record of calls, positions and messages for the next shift and HSE review

Cellular PTT vs conventional radio on oil and gas sites

Feature	Cellular PTT	Conventional VHF/UHF radio
Range	Works over 4G and 5G, private LTE, Wi-Fi or satellite links	Depends on terrain, antennas and repeaters
Control room view	Live GPS map, geofences and position history built in	Usually voice only
Worker safety	SOS, man-down and listen-in on every device	Varies by model
Existing radios	TETRA, DMR and VHF/UHF fleets joined through a gateway	Separate systems per contractor and frequency
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 crew, contractor or site in minutes; no masts to build	Infrastructure, licensing and support

TACTIRON

Tactiron One across the oil and gas chain

Configured for each type of asset

Upstream fields

Wellpad crews and drivers tracked live, with man-down for staff who work alone.

Offshore platforms

Platform crews and the onshore base on shared talk groups over satellite or private LTE.

Refineries & gas plants

A talk group for each unit and contractor team, with NFC checks on operator rounds.

Pipelines

Patrol teams on long remote sections, with geofence alerts and GPS history for every route.

Emergency response

One call to every talk group, SOS with location and a record of each alert for HSE review.

Remote camps & convoys

Camp, convoy and base on one system, hosted on-premise or in-country.

Deployment & support

- Rollout planned around your sites, crews and rotation schedule.
- Talk groups set up to match your assets, work parties and contractors.
- Crew and control-room training: calling, talk groups, SOS, man-down, NFC rounds and dispatch.
- Hosting on your premises or in your country, with local technical and warranty support.

Why operators switch

- **Lone workers covered:** an alert reaches the control room even if the worker cannot speak.
- **One system for every contractor:** existing radios join the same talk groups through a gateway.
- **Records for HSE:** calls, positions and alerts are kept for audit and investigation.

Devices for oil and gas crews



RugGear RG170
Keypad phone, IP68 and IP69



RugGear RG530
Smartphone, IP68, MIL-STD 810H



Telox BN900
PoC and DMR radio, IP68, IP69K



Hytera PDC680
DMR and LTE in one radio, IP68



Telox TE320
LTE push-to-talk radio, IP68



Hytera MNC360
Vehicle unit, two LTE antenna ports

- Important

Carry only devices rated for the hazardous-area zone where they are used. Tactiron confirms the rating of each device model during the briefing. Tactiron One supports your site emergency procedures and works together with your gas detection and alarm systems.

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