CAT-6
PUSH TO TALK OVER CELLULAR

World leading **push-to-talk over cellular solution**

Welcome to the world's leading push-to-talk over cellular solution

CAT-6 works in partnership with Mobile Tornado to provide push-to-talk over cellular technologies. Mobile Tornado's push-to-talk over cellular technology is used by more than 150,000 users in a range of industry sectors across 30 countries in Europe, South America, North America and Africa. It provides a range of solutions including instant messaging and voice communication, video and image sharing, lone worker, geofencing, location tracking, SOS emergency alerts and workforce management.

With more than 20 years of experience, Mobile Tornado's world class PTToC technology is tried, tested and proven.

Our push-to-talk over cellular technology boasts a range of world–class features:

- PTToC carrier-grade system availability of 99.999%.
- Instant communications between individuals and groups of up to 5000.
- Global connectivity – cellular 2G,3G,4G LTE, 5G networks and WiFi.
- Seamless switching between broadband.
- Exceptionally low latency.
- Flexibility – use with virtually any device.

- Robust dispatch console to manage remote workforces.
- Location monitoring and tracking – ideal for lone workers.
- Integrated push-to-talk over cellular and workforce management.
- PTToC mobile device management (kiosk mode) for added security.
- 24/7 support and dedicated account management.

Our push-to-talk over cellular solution increases safety, reduces costs, boosts productivity and improves efficiencies:

- Improves team coordination and efficiency.
- Improves response times with location tracking/monitoring and instant communications.
- Informs real-time decision making.

- Reduces costs with low usage rates and elimination of long-distance call charges.
- Keeps workforce safer with lone worker features.

Why choose **CAT-6's PTToC** over two-way radio?

Unlike traditional analogue radios, which operate on radio waves, CAT-6's digital push-to-talk over cellular (also known as PTT and PoC) technology works over cellular networks, including 3G, 4G LTE, 5G and Wi-Fi. This means it offers global coverage and users can use the PTToC system anywhere they have internet connection.

Take a look at how CAT-6's push-to-talk over cellular instant communication solution compares to traditional two-way radio:

CAPABILITY	TWO WAY RADIOS (LMR)	PUSH-TO-TALK
Instant communication	≡	≡
Low cost	X	≡
Dispatch console	≡	≡
One-to-many communication	≡	≡
Presence list	X	≡
Status updates	X	≡
Wifi compatible	X	≡
Built in security	X	≡
Voice communication	≡	≡
Multiple operating GSM systems	X	≡
Easy deployment	X	≡
99% coverage	X	≡
National / international coverage	X	≡
Low / no maintenance	X	≡
Location services	X	≡
Workforce management	X	≡
Number of coverage towers	N/A	+/– 6 000

Solutions: Instant communication

Managing a remote workforce's mission critical and day-to-day operations requires dependable technology to support employees. Our push-to-talk over cellular (PTToC) solution enables you to instantly communicate with individuals and groups of up to 5000 participants with a single push of a button, anywhere in the world.

CAT-6's push-to-talk over cellular, push-to-message and image and video sharing service improves productivity and organisational efficiency.

CAT-6 has the lowest latency of any push-to-talk over cellular solution on the market, meaning there is almost no difference between a private PTT call and a group of 1000. This makes our PTToC platform superior to any other solution. What's more, we deliver best in class, seamless switching between wi-fi and cellular technology, and between 2G, 3G, 4G and 5G mobile networks.

Our PTToC carrier-grade system availability is 99.999% and call establishment and voice delay is less than 300 milliseconds.

Push-to-talk over cellular

We offer instant communication with both individuals and groups in one call using IP networks to provide the stability of a mobile phone rather than the less reliable two-way traditional radio.

Instant message, file, image and video sharing

Unlike SMS, our instant messaging service lets users know who is online and available so messages can be delivered to the right person at the right time. Users can message and send high quality images and videos to individuals or groups using IP networks for seamless connection.

Solutions: Dispatch Console

Managing a remote workforce's mission critical and day-to-day operations requires reliable lines of communications that are always open and available.

Our world-class dispatch console serves as a command and control centre for the management of remote workforces. It supports up to 64 simultaneous PTToC radio group sessions and provides operators with a range of functions:

- Group communications
- One-to-one communications
- Voice recording
- Message, image and video sharing
- Emergency alerts
- SOS assistance

- Location monitoring
- Live tracking
- Geofencing
- Workforce management
- External reporting
- Recording platform

Solutions: Location tracking
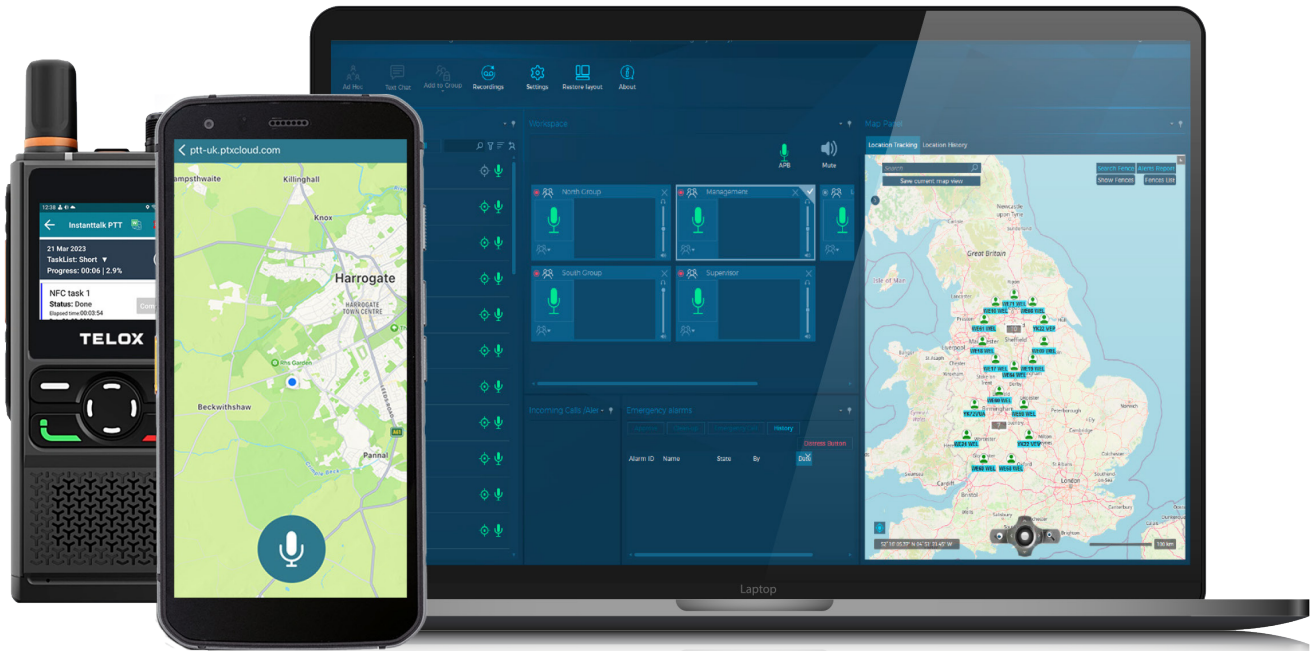
CAT-6's location tracking feature and GPS-enabled devices enable you to know the whereabouts of your people, in real time, wherever they are in the world.

This real-time monitoring and tracking feature enables you to make informed decisions in actual time. It enables you to quickly locate workers in an emergency.

Using our emergency alerts, users are able to alert other users at the touch of a button to enable emergency assistance to be provided. Automatic location information is provided once a user presses the SOS button, allowing them to be quickly located and allowing response to be sent faster. It also enables the closest users to the user who has pressed the SOS button to be located so that help can be sent as soon as possible.

Our IPRS™ system automatically records the major events associated with an emergency incident for incidents debriefing and to improve organisation efficiency.

Geofencing is a virtual perimeter for a real world geographic area.

CAT-6's geofencing solution allows you to agree a pre-defined set of perimeters through the mapping system on the dispatch console.

The feature provides live alerts when a worker enters or leaves the pre-defined perimeter and will send an alert to the dispatch console if it is breached.

Solutions: Lone worker

Maintaining the safety and well-being of lone workers and remote workforces is essential. CAT-6's world-class lone worker feature makes it possible to quickly and easily track and locate employees as well as send emergency alerts to help protect their welfare and keep them safe.

Lone worker is a valuable safety feature for people who operate in remote areas or who work alone. It can be used in a variety of industries, including construction, manufacturing and transportation, and can help to prevent accidents and injuries, send assistance in the event of an emergency and provide peace of mind for workers and their supervisors.

Lone worker can help to keep employees safer by monitoring them and sending alerts in the event of an emergency.

As well as tracking the location of users, it also enables employees to be periodically checked, in real time, either directly, via the application, or by detecting their behaviour using sensors on the device. These include if the device tilts, or is shaken or dropped, to detect falls. No movement/device inactivity or high speed can also be detected.

CAT-6's SOS alert feature enables users to instantly create an alert in the event of an emergency. This opens a line of communication and displays the location of the device, enabling help to be sent.
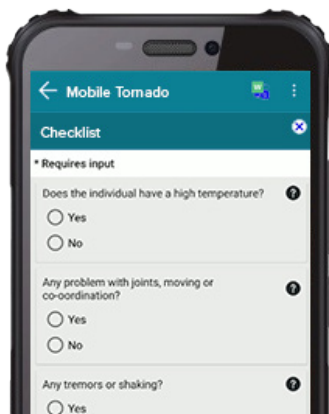
Workforce management

CAT-6 is proud to offer the world's leading integrated push-to-talk over cellular and workforce management solution. The bringing together of our world-class PTToC platform with the very latest in workforce management technology gives organisations everything they need to seamlessly communicate with and manage their team members using one application and one device, wherever they are in the world.

CAT-6's workforce management solution enables you to manage your workforce in a simple and effective way. It provides business-critical information to help you operate efficiently and improve performance, whilst reducing cost and risk.

The workforce management solution includes a range of features:

Compliance checklist and forms

By providing checklists and forms, and reminding people to complete them before, during and at the end of their shifts, CAT-6's workforce management helps ensure that your workforce comply to both industry standards and standards specific to your business.
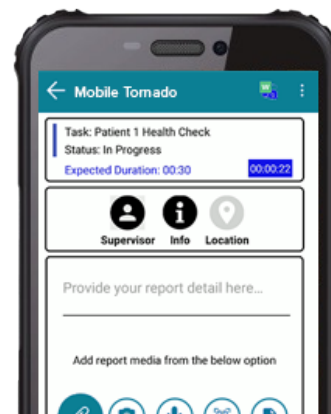
Incident reporting

CAT-6's incident reporting solution helps your workforce stay connected and makes it quick and simple for your workforce to track and report unexpected incidents, shortening response time and increasing efficiencies.

Being able to compile reports on a mobile device means that they can be completed faster than paper reports which often can't be completed until members of the workforce return to their work station. This enables you to make informed decisions and take the necessary actions in a timely manner based on the information in the report.

By setting up customised incident reporting forms and templates, you can ensure that incident reporting protocols are followed and that your people provide accurate details and the required information for each incident.
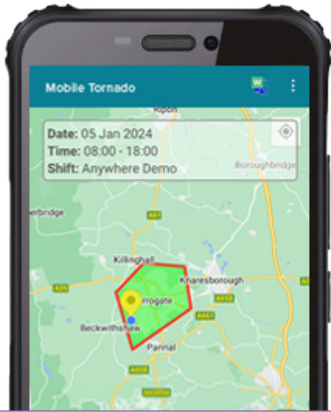
Time and attendance

CAT-6's time and attendance feature enables you to keep track of your workforce attendance and manage your people in a simple and effective way. This enables you to improve productivity and address attendance issues to keep shifts filled and work done.

Our Geofence solution will only allow employees to start their shift when they are GPS located in the predefined area. By viewing the profiles of individual staff you can get the right people to the right place at the right time. You can also track the whereabouts of your people at any given time.

Automating the attendance process and your reporting processes reduces your reliance on spreadsheets, paper based timesheets and manual processes.
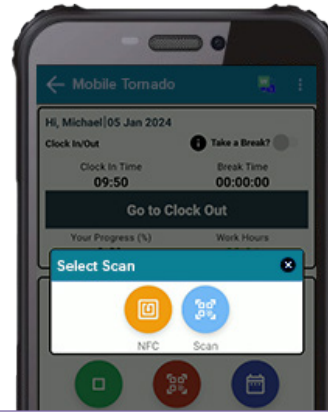
Task creation

Our task creation feature enables you to create and allocate tasks via the command console. To ensure that your workforce comply with tasks, the task creation feature also allows mandatory fields to be specified.

It enables you to identify gaps in performance and communicate with your workforce on-the-go, thereby improving communication and response times so that down time is reduced.

Full support of NFC and QR codes for ease of task allocation.

RoIP gateway

More and more organisations are finding that two-way radios are unable to meet their demands. Land based radio systems are expensive, outdated and lacking in data capabilities and features. Coverage is limited according to radio compatibility and infrastructure. The market is recognising that the limitations of radio technologies can be overcome by PTToC and companies are increasingly considering making the switch from legacy two-way radio systems to PTToC solutions.

The RoIP Gateway can bridge and send audio from a two-way radio network to CAT-6's PTToC application through advanced digital voice processing technology.

- Easily connects PTT radios and 4G smart devices.
- Range of connectivity options: wired, 4G LTE, and Wi-Fi.
- Supports multiple radio devices, frequencies, and manufacturers.
- Mission Critical Push-To-Talk (MCPTT) compatibility.
- Enables gradual migration from legacy radio to PTToC solution.

- Scalability and ease of deployment.
- Cost effective and does not require investment in infrastructure.
- Reliable connectivity and voice quality.
- Provides connectivity between legacy radios and PTToC applications.
- Connects to multiple Wide Area Networks (WANs).
- Improved connectivity creates operational efficiencies.

How does the **RoIP Gateway** work?

DMR   RoIP Gateway   Mobile Tornado IPRS Core   WAN Internet   2G/3G/4G/5G

DMR devices   PTToC devices
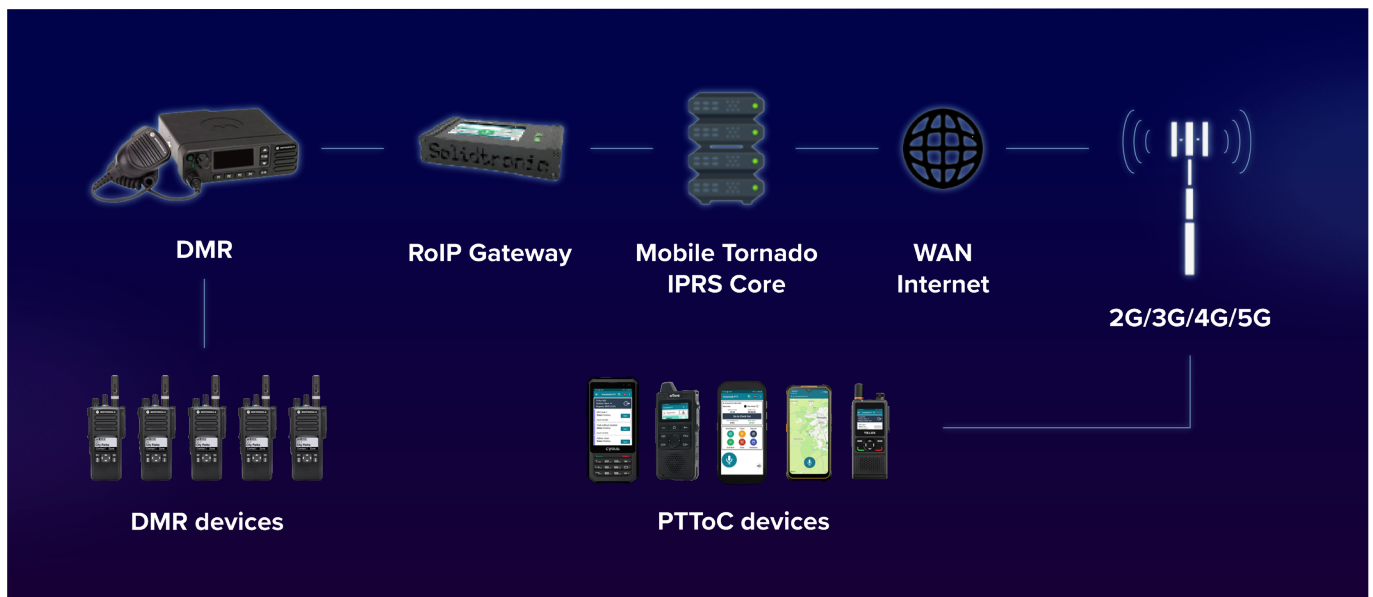
Providing the **best** and **most resilient technology** in the world for **critical communications**

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To find out more or to arrange a demo:

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www.cat6.com