



team  
on mission

ACT  
AS  
ONE  
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## Introduction

For decades, many sectors such as public safety, oil and gas, energy, construction and transport have used PMR/LMR (TETRA, P25) systems to provide their teams with secure technologies for mission-critical voice communications.

However, to meet their evolving operational needs, critical mission employees need to have advanced solutions offering more than voice communication, in order to better coordinate their actions and succeed in their missions.

With the introduction of high-speed broadband, these organizations can now access new MCX technologies such as MCPTT, MCVideo, MCDData, geolocation and real-time collaboration to have reliable and more productive communication.

## Why Team on mission?

**Team on mission** is an all-in-one solution designed and built with the necessary robustness and resiliency to adapt to the most hazardous work conditions without losing communication, even when in remote areas. It provides users in the field with all communication channels, mission-specific processes, and relevant real time information they require to succeed in their missions.



# Turn your smartphone into the ultimate new generation mission-critical communication solution

**Team on mission (TOM)** is the most innovative full VoIP-based mission-critical communication solution on the market, mixing rich features and excellent usability for smooth mission completion. Our platform offers robust security, advanced resilience and ease of use that guarantees that information flows smoothly between all different levels in the chain of command, helping to achieve and maintain security, tactical superiority and strategic independence in the face of any type of threat.

 <p><b>3GPP Compliant</b></p> <p><b>TOM</b> is a 3GPP compliant solution (TS 22.179) for Release 13 and will be for Release 14.</p>	 <p><b>Interoperability with radio systems</b></p> <p><b>TOM</b> ensures interoperability with radio systems, so it complements older technologies based on Tetra/P25/D-MR with new communication technology based on 3G/4G/5G LTE networks as well as Wi-Fi and works from any mobile Android handset, PC or tablet (including ruggedized devices).</p>	 <p><b>Seamless transition from public to private LTE network</b></p> <p>Teams in the field can use public networks with QoS priority and then to have a seamless transition to the private LTE (e.g., tactical bubble) resulting in no loss in service during emergency situations.</p>	 <p><b>Secure real-time communications</b></p> <p>Beyond walkie-talkie type communications, <b>TOM</b> allows secure real-time information exchange between multiple teams, with multiple devices, in multiple locations. Replace your organization's outdated radio technology with our comprehensive app that covers all of today's critical communication needs and will improve work efficiency and safety.</p>
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## Advanced features and services to increase performance

TOM services	TOM critical features	
<ul style="list-style-type: none"> <li>• MCPTT</li> <li>• MCData</li> <li>• MCVideo</li> <li>• Group Calls</li> <li>• Mission process management</li> <li>• Indoor/outdoor Geolocation/ Mapping</li> <li>• API &amp; SDK integration</li> </ul>	<ul style="list-style-type: none"> <li>• QoS, priority and pre-emption</li> <li>• Priority Talker Override</li> <li>• Contact &amp; Large Group Management</li> <li>• Real time position and tracking</li> <li>• Geofencing</li> <li>• Support for private map servers</li> <li>• Digital Briefcase</li> <li>• Field Service Management (FSM)</li> <li>• Set up patrol routes</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency communication /alert</li> <li>• Lone Worker Protection</li> <li>• Advanced Telephony (via PBX)</li> <li>• Mission Critical recording</li> <li>• Security Camera Control</li> <li>• Ambient Listening</li> <li>• PMR Interoperability (TETRA, P25, Radio)</li> <li>• Wide range of compatible accessories/devices and more...</li> </ul>

# Embrace innovation without compromising on security

**Team on mission** has always taken data security seriously – from high-quality military-grade encryption through to Advanced Threat Protection (APT)

- Fully secured PTT application/PTT server connection via TLS: SIPS, HTTPS. Cryptographic suite: TLS 1.2, cipher up to AES-256 and hash up to SHA-512.
- Secure voice communication using SRTP.
- Optionally, specific encryption modules can be integrated.
- Dispatcher can wipe-out data remotely in case of mobile loss or employee resignation.
- Block or remove user access to service.
- Focus on securing sensitive information including the storing of application logs remotely using syslog and the encryption of all stored passwords.
- All communication made with external systems such as map servers or narrow band PTT gateways are encrypted.

## Detect cyber threats in time and avoid breaches

In order to detect intrusions and **APT** (Advanced Persistent Threats), the application server is monitored and audited using **Audit** and **AIDE** (Advanced Intrusion Detection Environment). If unauthorized changes to the system and configuration are detected, it is possible to perform full traceability of actions to allow backtracking of events in case of a breach.



## A wide range of compatible devices and accessories



### Smartphones, tablets and feature phones

**TOM** is accessible from any device; a wide array of Android smartphones and tablets are supported.



### Accessories

**TOM** is compatible with a broad range of wired and wireless accessories: ear pieces, remote speaker microphones, headsets, hands-free car kits, etc.



### Ruggedized and ATEX devices

All equipment and protective systems intended to be used in areas where a potentially explosive atmosphere may be present in the EU must meet ATEX health and safety requirements. For instance, ATEX beacons for hazardous areas can be integrated with **TOM** (installed in ruggedized devices) to locate users in real-time in offshore facilities or underground bases where GPS signal is not available.





## USE CASES

### Making tactical decisions based on real-time information

**TOM** has been integrated/distributed by militaries and mission critical players on the market. With current deployments in Europe for different law enforcement agencies, **TOM** has proven to have the needed experience and all functional solution elements required to lead successful missions.



## Ensuring Le Grand Paris Express operations run in a safe environment

Le Grand Paris Express will use TOM platform for the deployment of a private 4G LTE network and communication services for the new automated metro lines:

- **MCPTT voice communications:** audio communication across all Grand Paris Express structures and the entire length of the track.
- **MC Data:** sending/ receiving files and multimedia material).
- **MC Video** (sending/ receiving video, video surveillance images from on-board trains).
- **The emergency features** will improve coordination, increase performance, and offer a safer place for both operators and passengers.

TOM allows to connect entities such as police, emergency services, fire brigade and security forces in crisis situations, which will enable efficient coordination of all teams involved to deal with the crisis.

## A resilient app for all French intervention units

In the past, the French Intervention Forces (RAID, BRI or GIGN) were using radio technology and walkie-talkies to prepare their interventions. Their operators were still using paper checklists (how many helmets are needed, how many ammunitions, etc.).

Through the **PCStorm** project, the French Ministry of Interior is providing critical communications to these tactical units and **TOM** met all of the required criteria by proving the most advanced and operationally efficient platform for users and system operators.

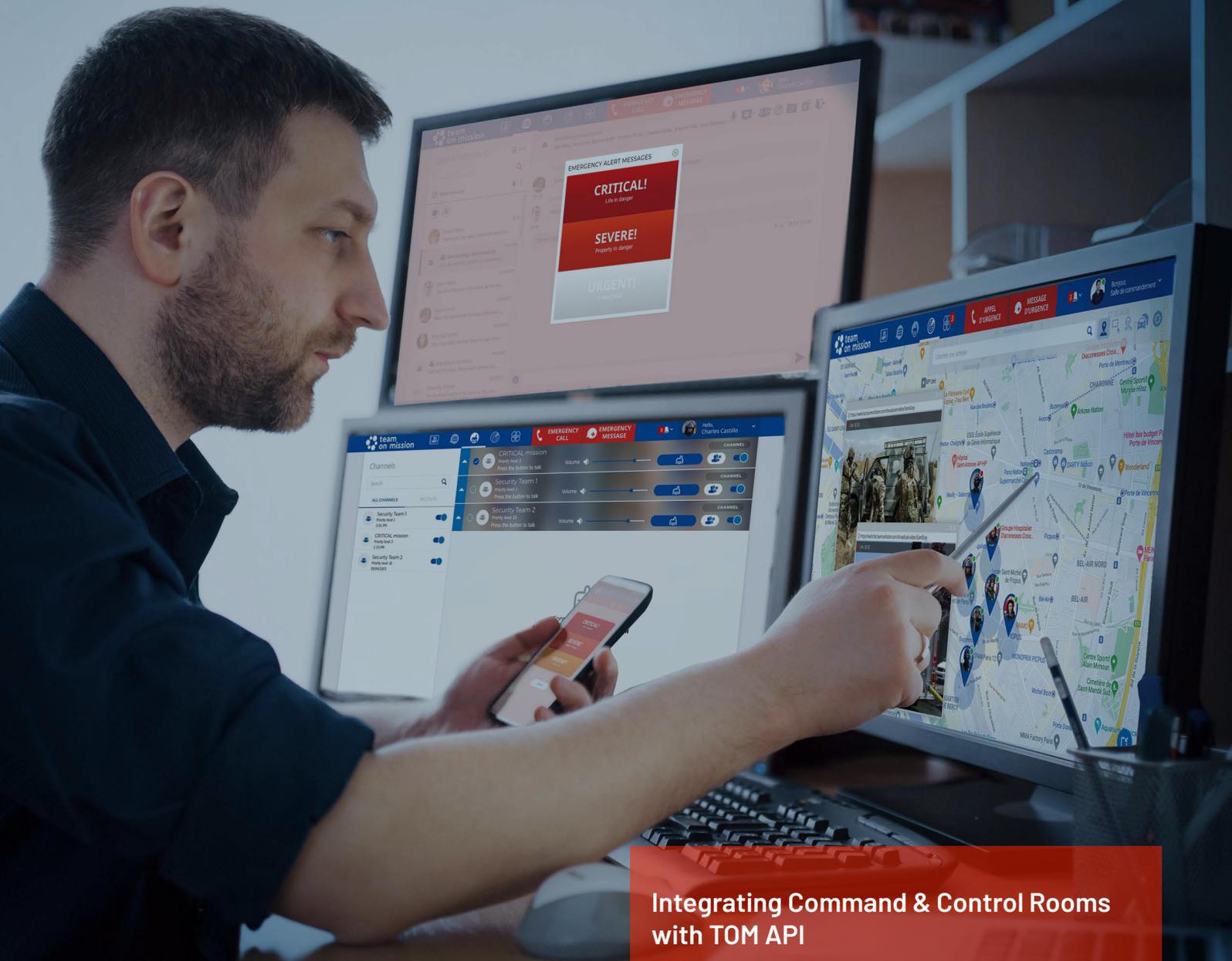


## Management of inmate transfers, movement, and process.

TOM is used to make prison transfers much safer thanks to advanced automated tracking, activity alerts and sharing complete mission information between teams and dispatcher.

In case an emergency event occurs, agents can respond quickly and make decisions based on real-time information.

Through Audit server it is possible to record communication between agents during the transfers for compliance purposes.



## Integrating Command & Control Rooms with TOM API

Through **TOM API services**, integrators for the public safety sector are able to enrich their command control rooms functionalities by integrating TOM features such as:

- Geolocation
- Group management
- Voice and video calls
- Secure instant messaging with files transfer: documents, pictures, videos.



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