



# THE PUSH-TO-TALK SOLUTION OVER WI-FI, LTE AND LMR



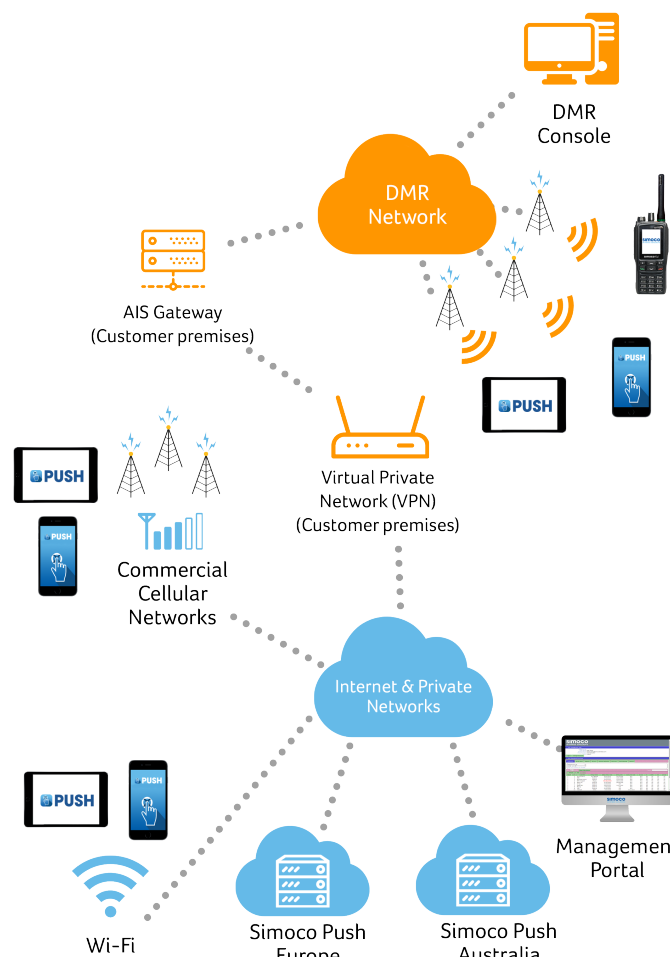
**simoco**  
wireless solutions

# INTRODUCTION

Simoco Push is an application for smartphones and tablets that enables fully secure and real-time PTT voice communications over a number of bearers including Wi-Fi and cellular. It is capable of integrating with LMR networks such as DMR and enables Push users to communication with radio terminals using individual and group calls. This functionality is available at all locations within cellular or wireless network coverage and utilises cloud hosted servers for optimal reliability.

Simoco Push allows senior management, emergency and operational personnel, logistics, security and administrative staff with access to advanced, instantaneous group or individual communication at the push of a button from Android or iOS devices\*, without the use of a radio. This is made possible by integrating calls, group messaging and location tracking over and Wi-Fi and Cellular networks, as well as DMR radio networks where applicable, resulting in extended range and secure, instant communication across multiple platforms.

\*Applies to tested devices only







# WHY USE SIMOCO PUSH?

Simoco Push's versatility makes it a viable and cost effective solution for a breadth of organisations across the globe. Smartphones have become a vital piece of communicative property, with over 3.5 billion smartphone users, or 44.8% of the global population, in the world today\*. This means access to communications networks has never been easier; organisations can create full systems and add users with the installation of an app and some basic configuration.

\*statistics according to Statista.



## COST EFFECTIVE

Push can be deployed at low-cost using standard Android or iOS devices.

This enables Push-to-Talk connectivity to radio users, without the need to invest in DMR radios for each team member, and extends DMR/radio system coverage to locations that team members may seldom roam.



## FLEXIBLE

Cloud hosted servers enable the user to scale server resources up and down swiftly depending on the needs of the network and number of users. These network configurations service a wide range of user requirements; ranging from airports and corporate organisations to fire brigades, utilities providers and the oil and gas industry. Push users can be added, updated and deleted quickly and easily through a user friendly web based portal.



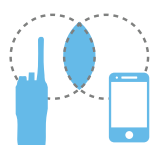
## COVERAGE

By integrating Simoco push into a DMR/radio network, coverage extends beyond DMR radio network capabilities through the incorporation of cellular and Wi-Fi into a combined network footprint.



## CAPACITY

DMR network integration also results in off-loading of capacity demand from the radio network onto a cellular/Wi-Fi network. This increases network redundancy and frees up the radio to handle emergency calls, disasters and alerts.



## HYBRID GROUPS

Hybrid Group technology allows both the DMR radio and Push users to participate in the same group call. This means any Simoco Push user becomes an active Push-to-Talk member of the group call in the exact same way a radio user would.



## COVERT OPERATIONS

Undercover users can communicate discreetly by utilising their mobile network devices, establishing calls and avoiding detection that would have otherwise occurred through the more obvious carrying of a radio handset.

# FEATURES

- Real time Push-to-talk
- Individual and group PTT calls
- Late join on group calls
- Emergency calls
- AES 256 voice encryption
- Priority Talker Override
- Priority Call Pre-emption
- Group priority scanning
- Individual and group messaging
- Multimedia messaging
- AES 256 Message encryption
- Integrated GPS location and mapping
- LMR integration
- Carrier independent push to talk
- Fully featured management portal access for self-managed customers

# BENEFITS



**THIRD PARTY  
MANAGED  
INFRASTRUCTURE VIA  
THE MNO**



**SATELLITE  
INTEGRATION**



**SUPPORTS BYOD  
CONCEPT**



**REDUCED CAPITAL  
EXPENSE**



**BUILDING  
PENETRATION  
USING WI-FI**



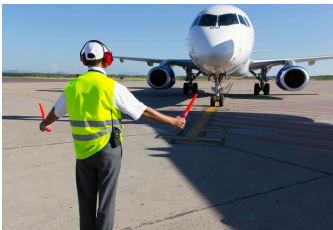




# MARKETS

Push's flexible and diverse set-up enables users across a wide variety of vertical markets to benefit. For example; organisations that do not want to invest in a radio infrastructure – driven by coverage area size or expertise, managerial access using smartphones/tablets connecting into a LMR system or off-campus access such as universities, mining, airports, etc.

Other key markets that Push could be successfully deployed to include:



Airports



Public Safety  
Organisations



Utilities & Mining



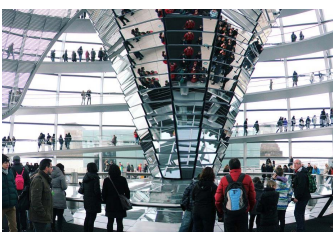
Logistics



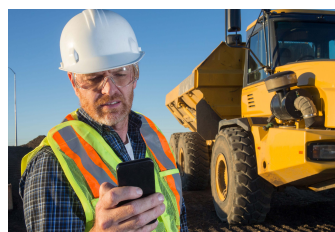
Oil & Gas



Campus Environments



Government & Council  
operations



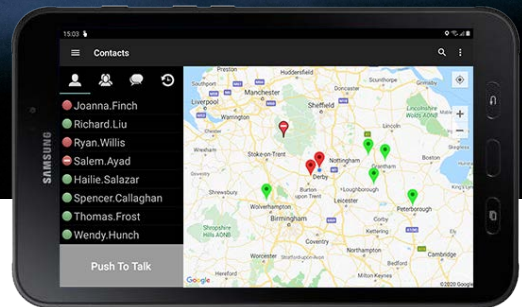
Construction





# PUSH DISPATCH

**Stay connected with your teams  
wherever they are with Push Dispatch.**



**REAL TIME  
LOCATION MAPPING**



**GEOFENCING**



**INDIVIDUAL AND  
GROUP CALLS**



**CALL HISTORY**



**SECURE TEXT/  
IMAGE MESSAGE**



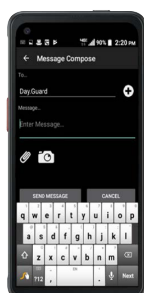
**DIFFERENT MAP VIEWS**



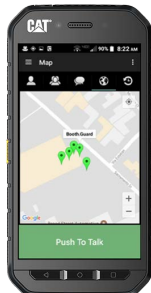
# SIMOCO PUSH DEVICE OPTIONS



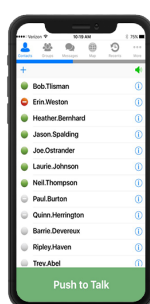
RugGear  
RG725



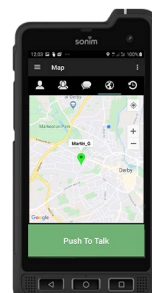
Samsung  
XCover Pro



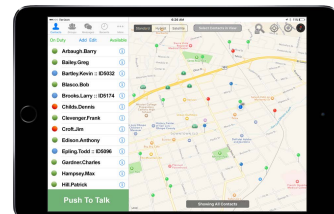
Caterpillar  
Cat S42



Apple  
iPhone



Sonim  
XP8



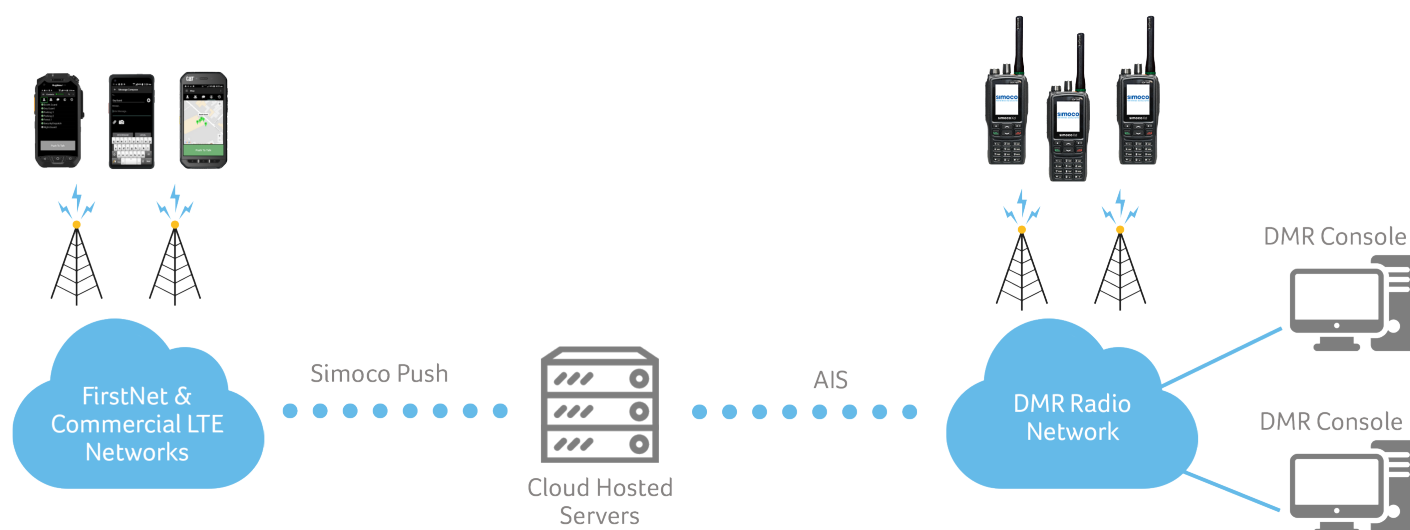
Apple  
iPad

Simoco Push provides the benefit of using PoC through a range of ruggedised devices on a public or private cellular network. The devices allow your employees to stay connected and are ideal for mining, airports, universities and a range of other markets. Users can get started immediately with a reduced learning curve without the requirement of having to learn to operate a two way radio.

Simoco Push is simple to setup and maintain and there is no requirement to build and manage a radio network infrastructure or secure spectrum licensing requirements. Maintenance is made simple with automatic software updates ensuring use of the latest features and use of nationwide push to talk can be setup in no time.

The Simoco Push application used on a nationwide network provides a powerful tool to help your business thrive and optimise efficiencies in your business.

## CONNECTING SIMOCO PUSH TO DMR NETWORKS



Simoco Push can be extended to DMR radio networks utilising the Application Interface Specification (AIS) protocol native to the DMR network. Push LTE users can communicate with each radio network using private calls, group calls and emergency calls. Additionally, Push integrated location tracking mapping features can display DMR radio users when GPS is enabled on the radio network.





## Contact Us

Field House  
Uttoxeter Old Road  
Derby  
DE1 1NH  
Tel UK: 08717 411 050  
Tel International: +44 (0) 1332 375 500  
info@simocowireless.com

UK HQ

AUS HQ

1270 Ferntree Gully Rd  
Scoresby, VIC 3179  
Tel: +61 (0) 3 9730 3999  
Fax: +61 (0) 3 9730 3964  
inquiry.aus@simocowireless.com

[www.simocowirelessolutions.com](http://www.simocowirelessolutions.com)

This brochure is subject to frequent changes and updates without prior notice. For the most up to date version, please check our website or contact Simoco directly. Any included specifications based on standard operating conditions. Simoco Wireless Solutions does not accept liability for any error or omission in this document.

Push - v.Oct20

**simoco**  
wireless solutions