

**TECH OFFER**

**Business Critical Mobile Push-To-Talk Over Cellular Platform**



**KEY INFORMATION**

TECHNOLOGY CATEGORY:

Infocomm - Networks & Communications

Infocomm - Enterprise & Productivity

Logistics - Transportation

Logistics - Value-Added Services

TECHNOLOGY READINESS LEVEL (TRL): **TRL9**

COUNTRY: **SINGAPORE**

ID NUMBER: **TO174086**

**OVERVIEW**

As traditional walkie talkie radio systems are becoming obsolete and the cost of ownership for private trunked radio network is high, more and more companies are shifting to Push-to-Talk over Cellular (PoC) solutions for their operations.

With the introduction of 5G Technology, Quality of Service (QoS) will only make it more advantageous and attractive for walkie-talkie systems to move from a private radio network to a cellular network. As communication is no longer strictly done through a walkie talkie, communication can be integrated with other purposes and applications.

Our PoC solution offers an application that is compatible with Android and iOS, hence it can be installed into virtually any device. This also means that any existing business solutions that are in use under Android and iOS can be integrated together with the PoC application as well as any other integrations that they want to be customized. e.g., integrate data from PoC application to

their cloud / personalized contacts for S.O.S alarm.

## TECHNOLOGY FEATURES & SPECIFICATIONS

### Voice over IP (VOIP) & dispatching

- Voice data transmit via cellular network providing global range Push-to-talk (PTT) communication
- Operatable on 4G LTE / 5G on frequency band B3, B7, B8 (Singapore Supported Frequency)

### Device Agnostic

- The PoC Solution platform can be integrated across virtually any device. Non-Android / iOS devices will be some integration work to be done.
- Easily co-packaged with other Android / iOS business operations applications as needed
- Minimum Android Jellybean 4.1, iOS 5.1.1

### GPS tracking

- The platform can retrieve and display a real-time location of the unit if the device harnesses a GPS chip
- Currently integrated with Google Maps & Open Street Maps for asset tracking, possible to integrate to other maps

### BLE indoor tracking

- The platform provides indoor tracking by doing BLE technology
- BLE beacons can be registered into the database and labeled for zonal indoor location detection (Existing BLE beacons on sites can be used)

### Analytics & History

- Integrate reports (including route history, voice log, etc.) into your customized dashboard

## POTENTIAL APPLICATIONS

As the technology can be used virtually across any devices, the main application of the technology will be for the following industry:

- Transportation & Logistics
- Manufacturing
- Construction
- Maintenance
- Hospitality

## BENEFITS

Customers can fully utilize the existing assets of the company and on board the latest 5G technology with this solution and not lose out. They can ultimately save costs while ensuring workplace safety and powering productivity in the environment.