Danimex™
WHEN YOU NEED TO TALK

The Danimex Push-to-Talk over Cellular (PoC) solutions overview

What is PoC?

Push-to-Talk over Cellular (PoC) is a transformative communication technology that allows users to connect and communicate instantly through cellular data and/or Wi-Fi networks. Unlike traditional two-way radios with limited range, PoC enables instant voice communication between users, regardless of their location, as long as they have access to WLAN (Wi-Fi) and/or LTE cellular networks.

In summary, PoC brings the simplicity and reliability of push-to-talk communications whilst offering enhanced capabilities and wider coverage compared to traditional two-way radio systems.

How it Works?

Push-to-Talk over Cellular (PoC) allows users to instantly communicate using cellular data networks. When a user presses the talk button, their PoC device sends a signal to the cellular network, which routes the voice call to the intended recipient. Users can communicate as long as they are connected to the cellular or Wi-Fi network. The PoC network services are hosted in the Cloud on privately owned servers, providing scalable and reliable communication services.

The private hosting ensures security and control, giving organisations confidence to deploy PoC solutions. PoC offers global coverage, enabling users to communicate across borders using cellular or WLAN (Wi-Fi) connectivity. The WLAN (Wi-Fi) option expands coverage beyond just cellular networks, making PoC a flexible solution for teams and fleets requiring instant, reliable, and geographically dispersed

The three Components of a PoC solution are

USER DEVICES

ACCESS NETWORK LTE, PRIVATE LTE, WI-FI

POC Server

PoC Benefits and Features

GROUP AND INDIVIDUAL CALLS
Users can engage in both voice and video calls, either individually or in groups, to facilitate seamless communication.

EMERGENCY CALLS
The system allows for emergency calls to be made quickly and efficiently, ensuring timely assistance in critical situations.

VOICE AND DATA ENCRYPTION
All communications are protected by robust voice and data encryption, ensuring the confidentiality and integrity of sensitive information.

BRING YOUR OWN DEVICE (BYOD)
Users can utilise their personal devices to access the PoC system, enhancing flexibility and convenience.

DISPATCHER/CONTROL ROOM
A dedicated dispatcher or control room can manage and coordinate communications, streamlining operations and enhancing situational awareness.

INDOOR LOCATION AND GPS TRACKING
The system provides accurate indoor location tracking and GPS tracking, enabling users to be located and monitored even in complex environments.

LONE WORKER PROTECTION
The PoC system includes features to protect lone workers, ensuring their safety and well-being in isolated situations.
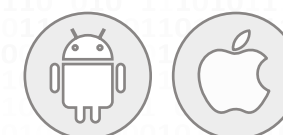
JOB TICKETING
The system allows for job ticketing, enabling users to track and manage tasks and assignments efficiently.

The USER Viewpoint

One of the key benefits is the support for BYOD (Bring Your Own Device), allowing users to bring their own devices and ensuring compatibility with both iOS and Android operating systems, depending on the server provider.

PURPOSE-BUILT POC DEVICES ARE DESIGNED WITH SPECIFIC FEATURES IN MIND, INCLUDING

» *PTT (Push-to-Talk) buttons for quick and easy communication.*

» *Ruggedised designs to withstand harsh environments.*

» *Noise cancellers to improve audio quality.*

» *Enhanced microphones for clear voice transmission.*

» *ATEX approval for use in hazardous environments.*

» *Dedicated emergency buttons for quick access to critical services.*

» *Headsets for hands-free communication.*

The significant advantages of PoC devices are their ability to seamlessly roam across different networks without the need for traditional PMR radio coverage. This is achieved using cellular LTE and WLAN (Wi-Fi) environments, which enable seamless roaming with no borders or dependencies.

Additionally, there is no need for channel selection, making it easy to use these devices in various settings.

Market Growth

According to the latest market analysis, the Push-to-Talk over Cellular (PoC) market is poised for significant growth in the coming years. In 2022, the market size was valued at US$ 4,233.3 million, and by the end of 2033, it is projected to expand to a staggering US$ 14,847.3 million.

12.2%

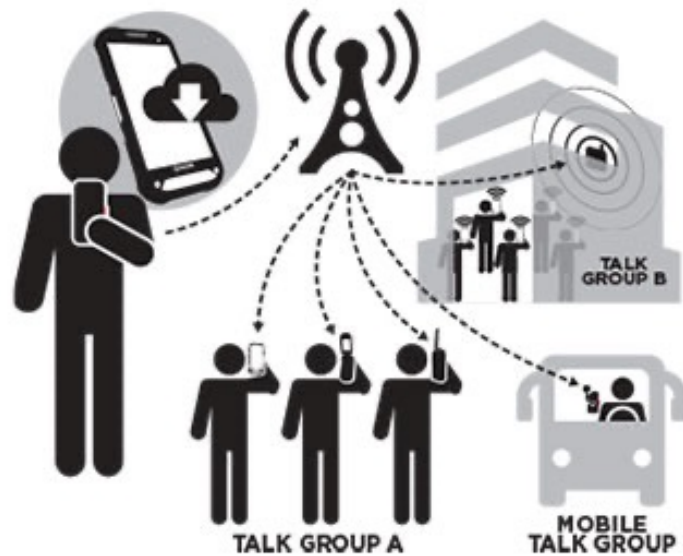https://www.persistencemarketresearch.com/market-research/push-to-talk-over-cellular-market.asp

Network Solutions

We offer a wide range of PoC solutions, which can be tailored to meet your requirements.

A PoC system can work as a locally hosted server or be operated in the cloud. Our PoC applications provide full integration of smartphones with your business needs, whether that is a standalone solution or an extension of your PMR network (Private Mobile Radio) platform over WLAN (Wi-Fi) or LTE.

» *CLOUD based*
» *ON PREMISE (aka 'ON PREM')*

Both of these scenarios can work either as standalone BROADBAND (with Wi-Fi) ONLY or with connections to PMR networks (Analogue, DMR, and/or TETRA).

WHAT CONSTITUTES A POC NETWORK?
We offer PoC SERVER SOFTWARE, which can be:

» *CLOUD based, AND owned by yourself*
» *CLOUD based, AND owned by someone else*
» *Locally hosted on your own physical server (AND owned by yourself)*

The SERVER can either be run by your own company or rented from PoC cloud service providers.

The NETWORK aspects either utilises your own or third-party Wi-Fi and TELCO services (LTE or Private LTE).

...PoC ?

Which Solution should I use?

WHEN TO GO "ON PREM"?

» *If the NETWORK is isolated and has no external internet connection.*

» *If the SOLUTION MUST WORK when the internet is down.*

» *If there is an existing TRBOnet dispatcher network, then it may be cost effective to add PoC users rather than add a NEW standalone PoC solution.*

MAKING THE RIGHT DECISION CAN BE DIFFICULT AT TIMES.

When deciding whether to use a PoC (Push-to-Talk over Cellular) device, several factors should be considered. For instance, if you need to ensure nationwide, regional, or global roaming capabilities, a PoC device might be the best choice. Additionally, if reliable internet connections are available and network communications are not critical, a PoC device can be a suitable option. If the client does not want to maintain their own physical server, a PoC cloud service can provide a convenient and cost-effective solution.

One significant advantage of using WAVE PTX is that it offers purpose-built user devices, ensuring seamless integration with the server solution. Let us help you make the right decision!
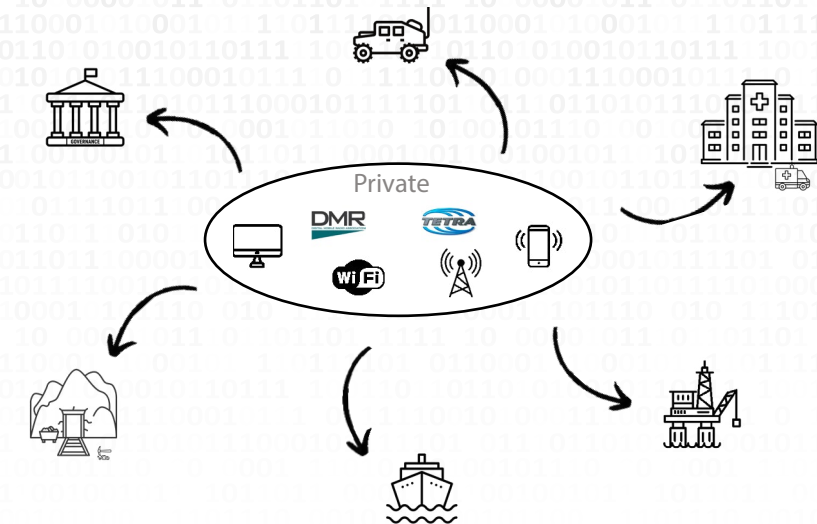
DANIMEX OFFERS THE FOLLOWING POC SOLUTIONS:

On PREMISES:

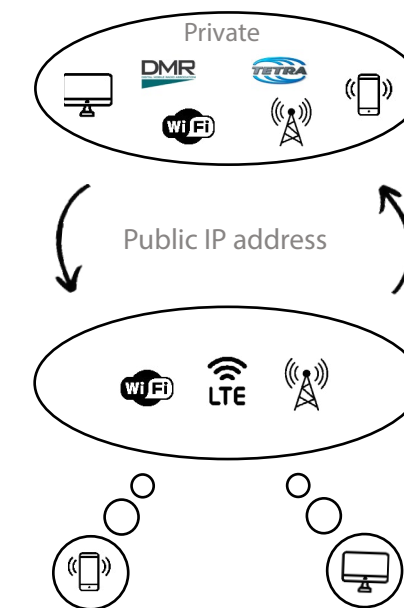» *TRBOnet control room package (Radio and or PoC)*

On CLOUD:

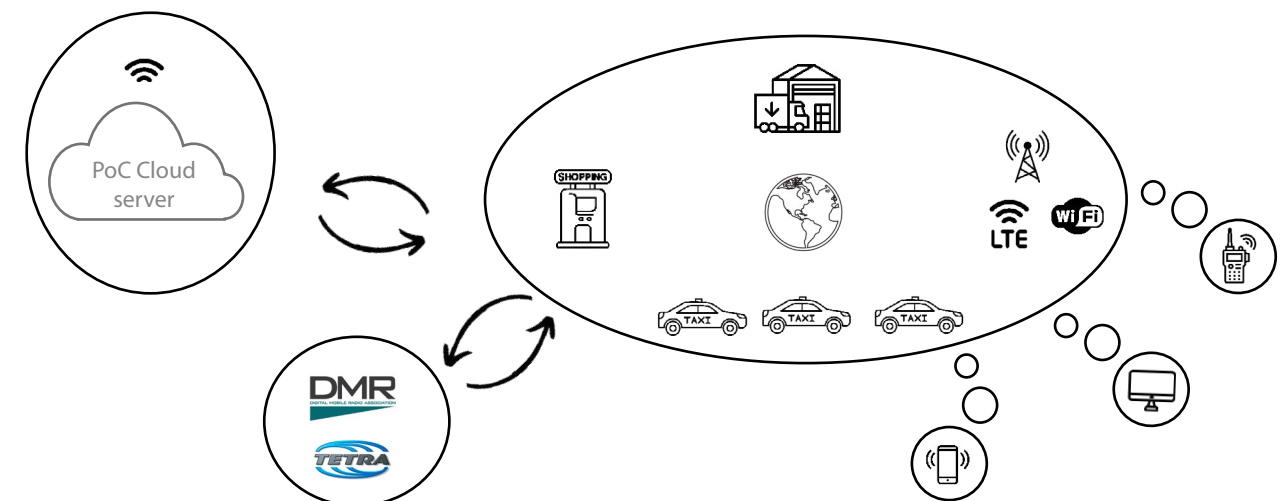» *Danimex hosted PoC service.*

» *WAVE PTX*

'ON PREM' NETWORK OVERVIEW WITH NO ACCESS TO AND FROM OUTSIDE:

'ON PREM' NETWORK OVERVIEW WITH ACCESS TO AND FROM OUTSIDE:

100% CLOUD SERVICE:

Speak to your Customer!

BEFORE YOU CHOSE THE POC SOLUTION, YOU NEED TO ASK YOURSELF AND CLIENT.

Firstly, you need to determine whether your own security requirements and rules necessitate that you own your server. If so, you should consider whether it must be hosted on your own site or if a cloud-based option is acceptable.

Next, you should estimate the number of users you will have initially and in the long run. This will help you determine the scalability of the solution. Additionally, you need to decide whether your solution will rely solely on broadband or Wi-Fi connectivity or if it requires a connection to your Private Mobile Radio (PMR) network. You should also consider the call capacity, which includes the number of simultaneous calls you expect to require. This will help you determine the solution's ability to handle your communication needs. Furthermore, you should decide whether the service will be private, group-based, or used for communication between PoC and PMR users.

Another important consideration is whether the service will be used for personal purposes or if you plan to sell services to others. This will impact the type of solution you require. Finally, you should establish your budget, including both the initial investment and any recurring fees you are willing to commit to.

Once the facts are established, DANIMEX will assist you in selecting the most appropriate PoC solution for your specific needs.

DISCOVER OUR CASE STUDY AND SOLUTIONS PAGE!

DIVE INTO SUCCESS STORIES

Explore real-life examples of how we've partnered with clients to overcome obstacles and achieve remarkable results. Get valuable insights and ideas for your own business endeavours!

TAILORED SOLUTIONS FOR YOU

Are you looking for solutions to your specific business needs? There is no need to look any further! Our Solutions page offers a 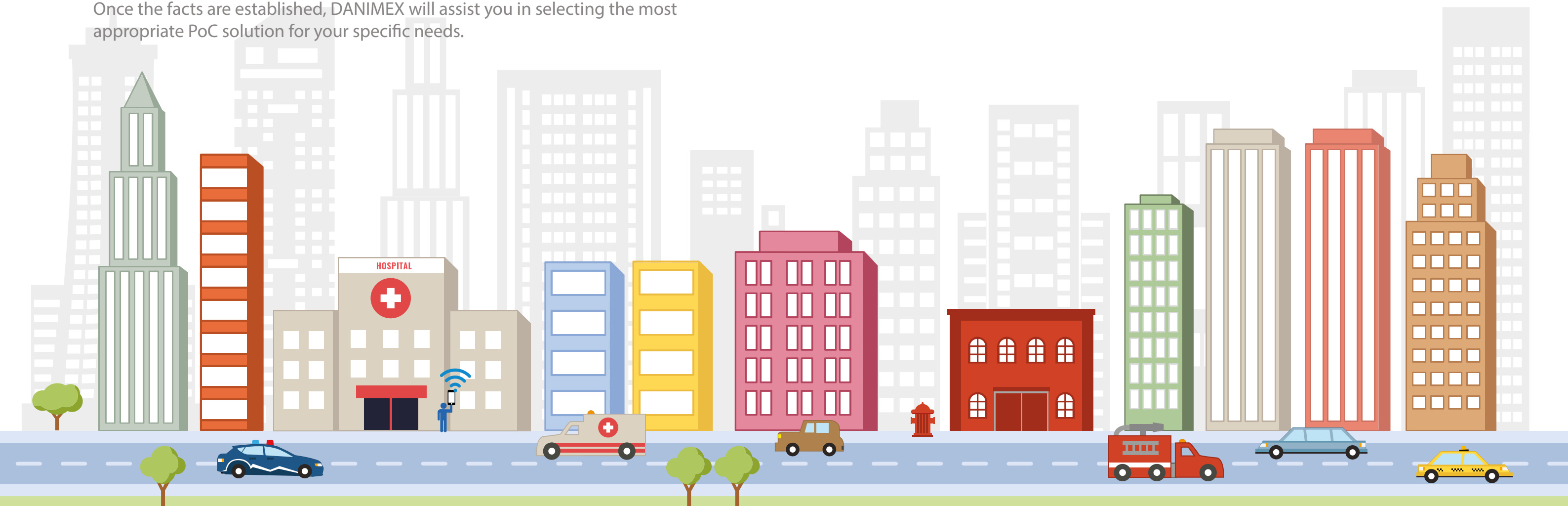range of tailored options to streamline operations, enhance customer experience, boost productivity, and optimise your digital presence. We've got the answers you're looking for!

VISIT NOW

Ready to unlock your potential? Head over to our Case Study and Solutions page at to discover the path to success.

Watch Now!