



Private LTE

dynamic creation of a private LTE network for **static**, **mobile** and **airborne** applications

The LTE eNodeB uses a combination of technologies to provide private communication capabilities. It combines the use of LTE, for broadband communication speed, with an evolved NodeB core (eNodeB), providing radio network access.

The Private LTE eNodeB allows users to create their own controlled and managed private communications 'bubble', isolated from commercial mobile operators. The created private communications 'bubble' allows for total privacy and isolated usage of bandwidth and services within the coverage area.

The LTE eNodeB makes use of a Software Defined Radio (SDR) that allows the user program different frequencies for different deployments ensuring that the system will provide the best coverage possible for each operation.

Private LTE allows users to easily share large volumes of data within a dynamically created private communications coverage area.



Applications

Small and lightweight with low power consumption (SWaP), the LTE eNodeB can be used in multiple installation scenarios and is ideal for use in remote locations where connectivity and power is absent or unreliable.



Static

Installed at an HQ, Forward Operating Base or at an operational location to provide private coverage at the location.



Mobile

Installed into the communications vehicle of a convoy or on to a tactical vehicle to provide private communications on the move.



Airborne PTT

Installed on to a UAV, aircraft, helicopter or deployed by balloon, typically used in disaster areas



Airborne ISR

Installed on to a UAV, aircraft, helicopter or deployed by balloon, typically used in disaster areas

Connectivity from the LTE eNodeB

The LTE eNodeB provides a platform for sharing high-volume data. This platform can typically be used for:

- Video Surveillance (Static, Mobile and Airborne)
- Mission Critical Push-to-Talk (MC-PTT)
- Data Sharing
- Secure Voice Calling (one-to-one and group)
- Secure Text, Video and Image Sharing
- Secure Video Conferencing
- Artillery Fire Control Systems
- Blue Force Tracking

Users can communicate privately within the LTE bubble, but can also break out into the public network, giving the solution **global coverage capabilities.**