

eChat PoC System

The eChat System is an advanced PoC (Push-to-talk Over Cellular) platform that supports a variety of features and functions. eChat utilizes the carrier's 3G/4G/5G/Wi-Fi infrastructure to provide wide coverage and unlimited channels, to free customers from the small coverage and limited capacity of traditional PTT networks.

eChat KEY FEATURES

The eChat system is a simple, reliable, cost-effective solution which can be deployed locally or on the cloud.



Worldwide Coverage

National even international communication via carrier's 5G, 4G LTE and 3G WCDMA networks, Wi-Fi, even customized APN mobile networks.



Free of Base Station

Based on carrier's network, customers do not need to build their own base stations, saving a lot of CAPEX and OPEX.



Modularized and Distributed Design

Modularization design allows customers to deploy the required services and makes the future expansion easy and fast. Distributed technology ensures system redundancy, stability and service continuity.



Unrestricted Channels and Bandwidth

eChat platform puts no limitation on channel allocation, and carrier's 4G and 5G networks provide more than enough bandwidth for all eChat services.



Group Call and Individual Call

eChat supports half-duplex group call, private call, temporary group call, dynamic regroup, and full-duplex individual call.



Location-related Features

eChat supports diverse map-based location services including: realtime positioning, historical track, ranging, geofence, circle selection call, etc.



Multimedia Services

Besides basic PTT services, eChat dispatcher and user can send text message, picture, video or other files to an eChat group or other eChat users.



Rapid and Flexible Deployment

Support cloud platform or local standard PC server deployment, with modularized architecture, allowing users to quickly and flexibly deploy eChat according to their actual needs.



Safety Design

Support remote disaster recovery, and the service modular stackable design can ensure service continuity. Support private control signalling and triple authentication (IMEI, ICCID and account). Support end-to-end encryption for different services to maximize user data security.



Connection to DMR and Analog

Support protocol-level full-service intercommunication with self-developed DMR systems, as well as voice intercommunication with DMR and analog radios from other vendors.



Over-the-Air Management

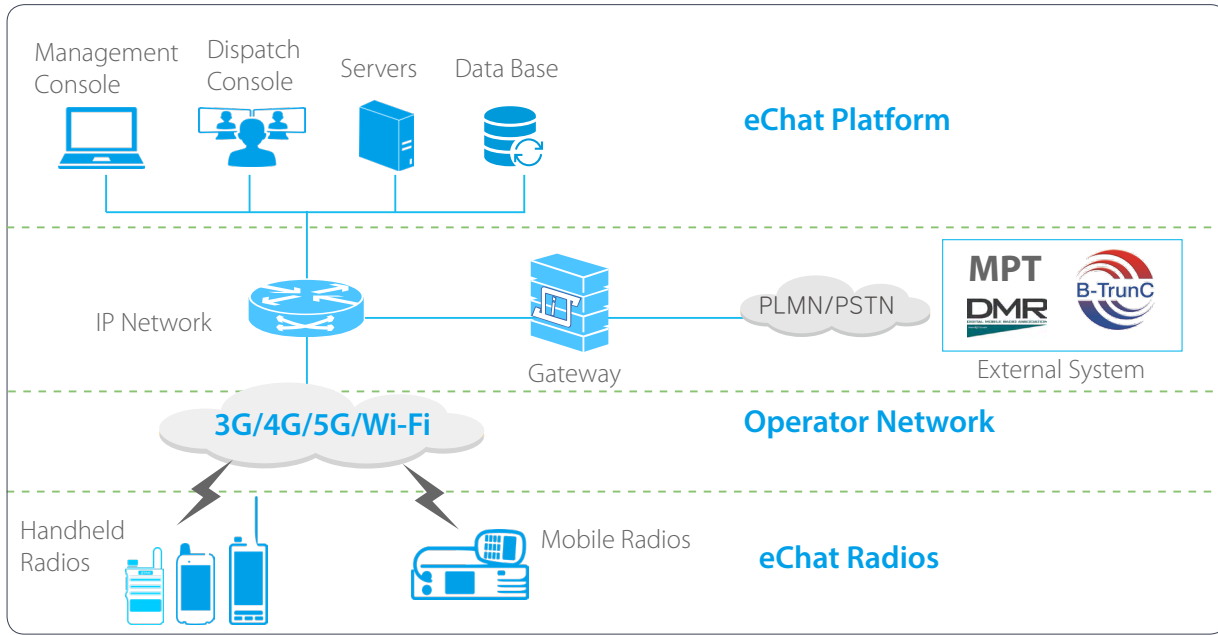
eChat radios and dispatch console support online version detection and remote upgrade, saving OPEX for customer.



Industry Customizable Services

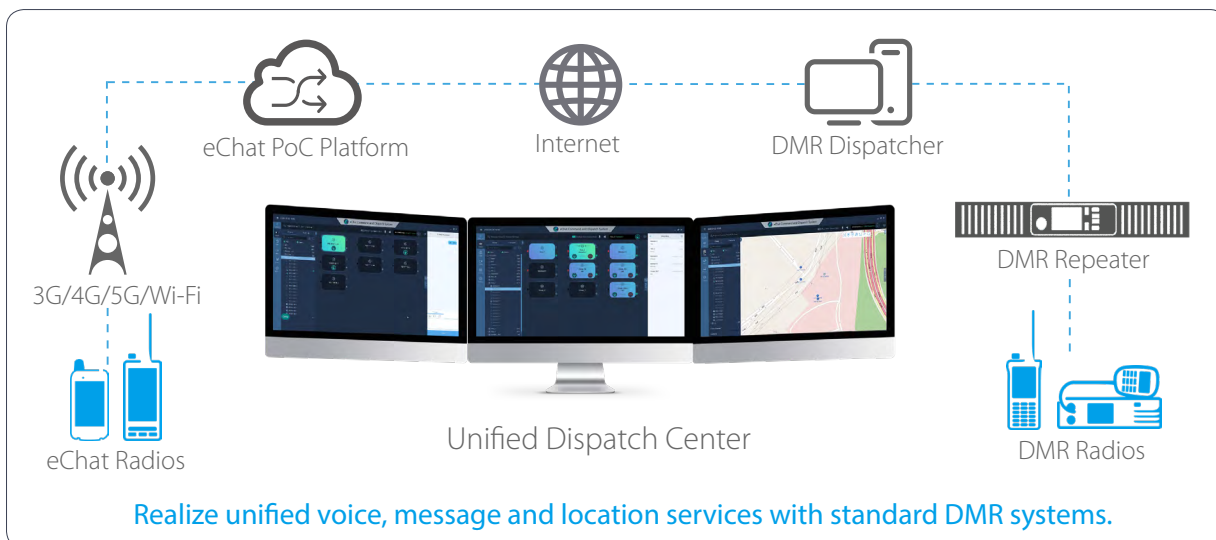
Provide industry customizable services such as Lone Worker according to customer needs. The Lone Worker service has made special customization to both the dispatch console and radio to ensure the personal safety of the user in a work-alone scenario.

Caltta's eChat worldwide PoC communication solution consists of eChat server, dispatching console, management console, eChat radios and eChat APP. Caltta is able to offer end-to-end PoC solution to our valuable customers.



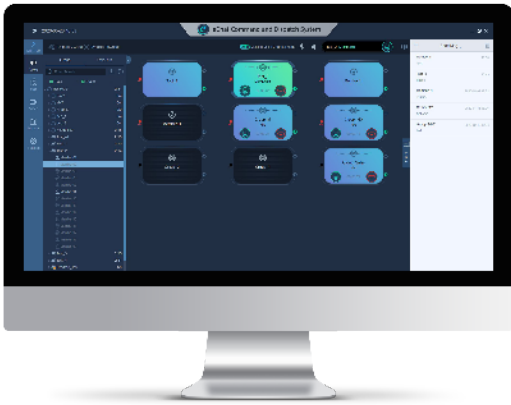
Full-service Connection with DMR

With protocol-level interconnection with our DMR system, eChat platform is able to realize unified command and dispatch to DMR without any gateway, and provide customers with high voice quality and low network latency during intercommunication.



Dispatch Console

eChat dispatch console is a professional and powerful PoC dispatching software. The C/S architecture design makes it easy to install. Its professional dispatching interface and multi-lingual support greatly facilitate user's operation.



- Support multi-screen display for different services, improving user's command and dispatch efficiency
- Provide instant PTT group or private call between dispatcher and eChat radios. Dispatcher can also create a dynamic group based on radio's location, to improve dispatching efficiency
- Support abundant services including voice call, video, SMS, positioning, recording and so on, meeting the diverse needs of users from different industries
- Emergency alarm, lone worker, geofence and other services can ensure user safety by receiving information instantly when users are in danger

Applications

With the advantages of wide coverage, low investment, rapid deployment, easy operation and reduced OPEX, Caltta eChat PoC system has been widely deployed around the world, such as China Shanghai City Operation Management Center, China Hubei Fire Brigade, Wanke Real Estate Enterprise, United Kingdom, Spain, Hungary, Turkey, Russia, Colombia and so on.

