



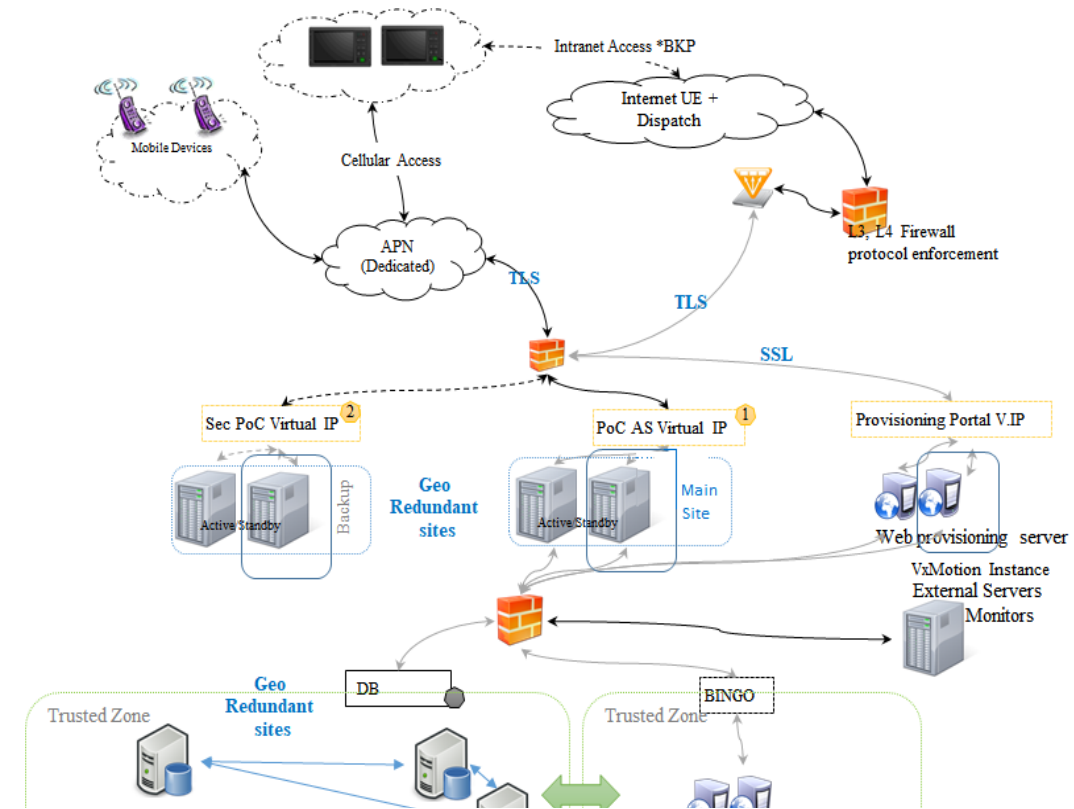
POC System

POC Systems



Every component in the system is built with no single point of failure, every equipment is duplicated over 2 geographical sites to ensure highest availability (99.99%)

The **Easy Talk** System (the POC system) is highly integrated with operators to ensure higher quality of service to customers and benefits for latest 3GPP releases for providing enhanced POC service delivery.

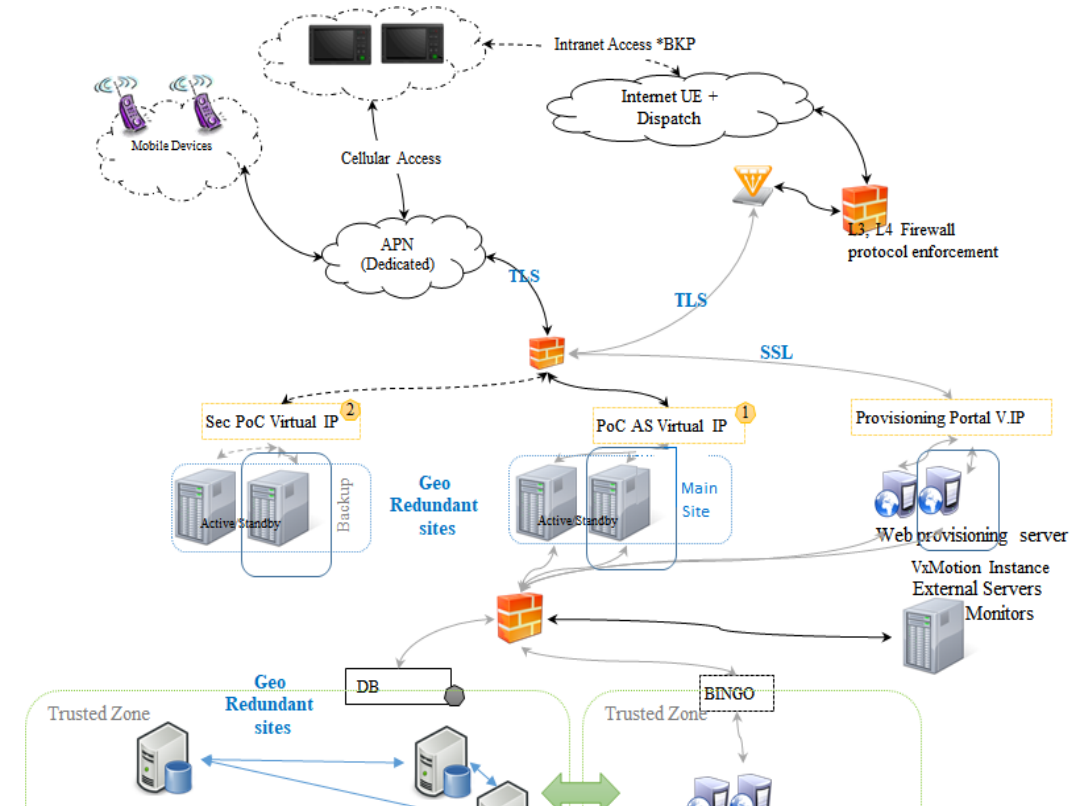


Security & Encryption



Easy Talk System is highly secured and ensure total integrity of the information it is transporting;

- ✓ All the information is encrypted with AES 256 bit algorithm.
- ✓ The system is on hot backup to ensure zero downtime.
- ✓ The service is protected against attacks such as: DDOS, MIM (Session Hijack/Replay), SQL Injection, Password Attack, XSS, Eavedrop and more.



Features Matrix



❖ The **Easy Talk** system support wide range of features and can implement complex scenario for PTT/Location/messaging and SOS.

❖ The **Easy Talk** system is capable of interfacing any IP based platform and integrate telephony and Radio natively.

PTT	<ul style="list-style-type: none">• Fast Call Setup over cellular (sub second)• Group Communication : Broadcasting to all members of a group with a single push• Private one to one call• Online presence• Ad-hoc call (>2500 users) (from dispatcher)• Encrypted calls• Hierarchy calls – high priority group• Recording of calls• Support for wide range of devices (low end to MIL STD)• Radio Interoperability• Programmability of button• SDK for integration
Control + Location	<ul style="list-style-type: none">✓ Locate all time via a secure PC Dispatcher✓ Quickly monitor/track individuals✓ View the historic of locations of individuals✓ Location visualization on computerized maps (google, openstreet...)✓ Geo-call: Rapid setup call based on location✓ Fencing✓ PC Based application
Instant Message	<ul style="list-style-type: none">❖ Messaging to groups and private❖ All in One for fast and secured sharing
SOS Calls	<ul style="list-style-type: none"><input type="checkbox"/> Dedicated button on device<input type="checkbox"/> Priority on calls for assistance in the event of an incident<input type="checkbox"/> Combined with location to allow coherent decision making<input type="checkbox"/> Stealth listening: Option to control the alerted device without alerted party physical involvement
Provisioning	<ul style="list-style-type: none">- SOAP Based interface- Web based console

Detailed Feature List



❖ System Access & Provisioning:

- ✓ Authorization.
- ✓ Authentication.
- ✓ Roles definition such as: dispatcher, user, admin, super Admin.
- ✓ Roles restriction service based restriction and/or service granularity and action limitation.
- ✓ Groups definition such as: network group, private group, user defined.
- ✓ System Priorities.

❖ Presence:

- ✓ Contact presence.
- ✓ Personal group presence.
- ✓ Network group.
- ✓ In session.
- ✓ Online/DND/On-Call.
- ✓ Per organization defined presence status.
- ✓ Real time presence update.

❖ Address Book:

- ✓ Phone Address book synchronization.
- ✓ Contact un-personification.
- ✓ Network group support.
- ✓ Contact lookup (Name).
- ✓ Contact lookup (Phone).
- ✓ Contact provisioning.
- ✓ Groups adherence > 40.

❖ Push To Talk:

- ✓ One to one session
- ✓ Personal session
- ✓ Radio session
- ✓ Hijacking session
- ✓ Add participant to ongoing call
- ✓ Default session
- ✓ Announcement session
- ✓ Call session priority
- ✓ Stealth listening (Dispatch only privilege)
- ✓ User privilege (dispatch)
- ✓ Administration (dispatch)
- ✓ Non-intrusive call
- ✓ Direct call to dispatch
- ✓ Direct call to pre-defined user
- ✓ Talker displaying
- ✓ Call interception (CALEA)
- ✓ SIP call (telephony)
- ✓ Silent mode
- ✓ Discreet mode (always on headset)

❖ Message:

- ✓ One to one message
- ✓ Personal groups
- ✓ In session
- ✓ Conference
- ✓ History (server based)
- ✓ History (Client based)
- ✓ Offline messages
- ✓ Delivery status
- ✓ Rich media message (text/image/video)

❖ Alert/SOS:

- ✓ Dispatch as SOS destination
- ✓ User targeted SOS
- ✓ Pre-defined personal group for handling SOS
- ✓ Pre-defined network group for handling SOS
- ✓ Disable client SOS clearance
- ✓ Location based alert (alerting people around)
- ✓ Alert history

Detailed Feature List



❖ Location – Positioning service:

- ✓ Position reporting
- ✓ Frequency control
- ✓ Who can see my position
- ✓ Proximity notification
- ✓ Geo location based call
- ✓ Position history
- ✓ Polygon fencing

❖ Client OS compatibility:

- ✓ Windows (PC)
- ✓ Windows Mobile
- ✓ Android
- ✓ iOS
- ✓ Linux

❖ Per device feature:

- ✓ PTT priority over call (Android)
- ✓ BT button Accessories (Android)
- ✓ Device unlock (Android)
- ✓ Device management
- ✓ USB ped key (Win)
- ✓ PTT key configuration
- ✓ SOS activation by shaking
- ✓ Map support (Google, OpenSM, Bing)

❖ Encryption:

- ✓ Signaling – TLS 256
- ✓ Media – TLS 256
- ✓ HTTPS - SSL

❖ Cellular integration:

- ✓ Network QoS
- ✓ QCI Support (PCRF)

❖ Network compatibility:

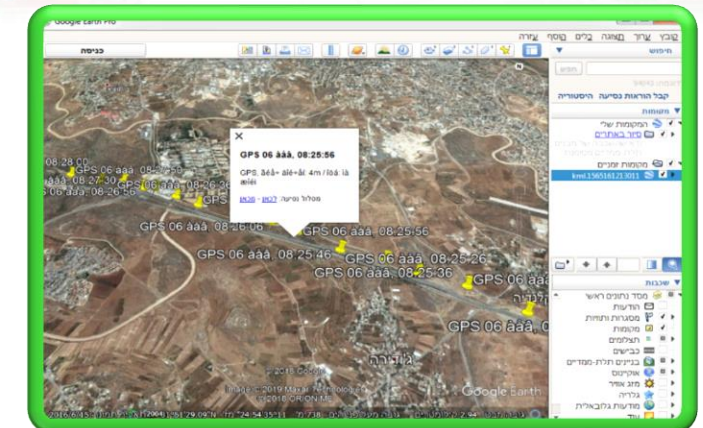
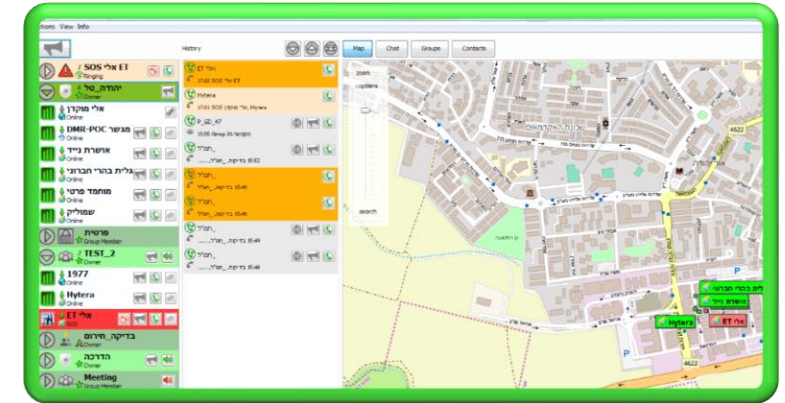
- ✓ Cellular (2G/3G/4G/LTE)
- ✓ Wifi
- ✓ IP
- ✓ SIMPLEX

❖ Interoperability:

- ✓ Telephony (SIP)
- ✓ LMR
- ✓ DMR
- ✓ SIMPLEX

❖ Integration

- ✓ SDK Android
- ✓ SDK Windows
- ✓ SDK Linux
- ✓ SDK iOS



Below are the KPIs for the service according to serving network:

	3G network	4G network	WIFI
Call setup	Up to 2 seconds	Up to 1 second	Up to 1.5 second
In Call PTT	Up to 200ms	Up to 200ms	Up to 200ms
Audio Latency End To End	Up to 500ms	Up to 500ms	Up to 500ms
User bandwidth	Up to 15kbps	Up to 15kbps	Up to 15kbps

Dispatcher

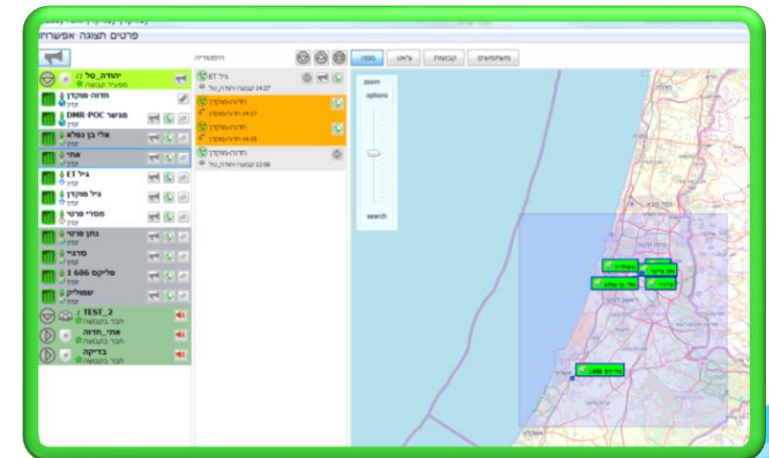
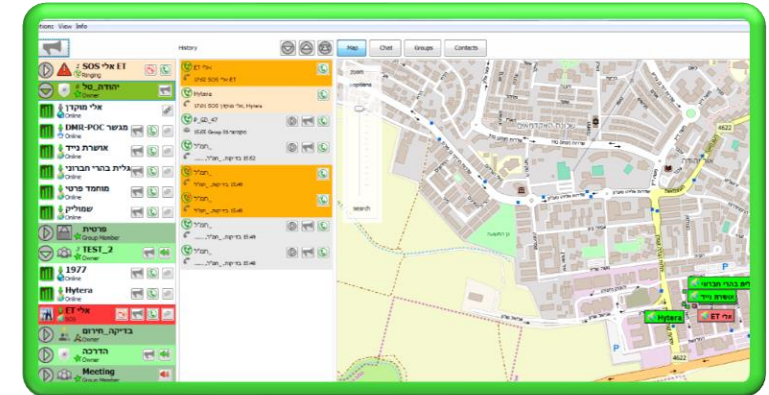


The dispatcher console is a decision software, it is having leveraged privileges on PoC and capabilities available only to control room.

The dispatcher is providing a consolidated view on the radio/train/staff using the Easy Talk system, with option to locate each of them in real time or activate advanced features from remote.

A dispatcher user may perform:

- ✓ Location tracking
- ✓ Field workforce supervision – current location and tracks
- ✓ Location history log
- ✓ PTT call initiation with a single pointing or polygon selection
- ✓ SOS Emergency mode – location tracking and two way communication channel (can be silently initiated from dispatcher side)
- ✓ Call and data recording
- ✓ Create and manage organization users and workgroups.





For more information



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