Neco-Guardian Trunking POC Solution:

SELBOURNE
ERF 6751 PROPERTIES - CSD NO: MAAA0098572

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NECO-GUARDIAN TRUNKING NETWORK SOLUTION

● Neco-Guardian removes all historic Two Way Radio communication barriers such as the cost of network infrastructure, geographical two-way radio limitations i.e. area of coverage, licensing limitations, time constraints, the costs of spectrum and propagation studies and the list goes on …

● The Neco-Guardian Solution utilizes National GSM / LTE / IP and Two-Way Radio Networks for communication. Similar to two-way radios, broadcasts can be made to everyone on the network, but with Neco-Guardian national users can now communicate one-on-one, one to many or in broadcast groups.

● Radio terminals can be monitored and tracked using the Neco-Guardian Dispatching and Tracking software as well as the Neco-Guardian Mobile Application, know where your asset is always.

● PARTNERS
NECO-GAURDIAN, MST CRITICAL COMMUNICATIONS

We as company, can deliver solutions by combining technologies, products and services into one seamless package. This would not be possible without the support of our partners. These are some of the world leading brands we offer:

ICOM   MOTOROLA   ZTE   Hytera

● PRODUCTS AND SERVICES

As a product and service provider in the telecommunication industry, we provide solutions in more than just the traditional two way radio space. We can deliver business and mission-critical communications in VHF, UHF, IP and GSM. We provide solutions in each segment of the communications industry with full interoperability, including but not limited to:

-	Land Mobile	-	GSM
-	Marine	-	Messaging
-	Air band	-	IP
-	Amateur		

All our communication services can be delivered using a variety of commercial models, including outright purchase, financed or even on a rental basis, providing the ultimate flexibility to the customer. Communications is just part of the service.

We have invested heavily in the future of communications and are constantly bringing new technologies, new products and services to the market all the time with the intention of making a difference and contributing to public safety amongst other sectors on the African continent.

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- **CORPORATE SOCIAL RESPONSIBILITY**

As a South African company and as African citizens we are truly committed to our industry and as such we contribute in meaningful ways to our continent. We have developed a specific niche for our CSI activities in the wildlife conservation space. We currently provide infrastructure and technology to more than 75% of all South African wildlife parks and have deployed solutions in some of the most renowned parks in Africa. We work determinedly to do our part for Rhino conservation and the preservation of other endangered species across the continent.

- **CUSTOMERS**

We have built up an impressive customer base following with some of Africa's leading organisations. We have delivered diverse and bespoke solutions throughout Africa.

- **OUR MISSION**

To meet today's communication challenges, we have realised that our customers need the power of information at their fingertips. As a trusted partner NECO delivers that power with an integrated and a vast collection of ecosystem specific tools for our customers.

Getting the right information, to the right person at the right time saves time, money and in certain instances lives. Delivering this information to reliably and securely is our mission ... one we have no intention in failing at ... one that we are committed to and work tirelessly toward.

We have never failed in any of our missions.

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NECO-GUARDIAN PROVIDES MISSION AND BUSINESS CRITICAL COMMUNICATIONS WHEN AND WHERE YOU NEED THEM THE MOST.

01 WHO WE ARE

NECO is proud to offer you the Neco- Guardian Communications Solution. This is due to our expertise and experience in the Two-way radio market.

NECO has strategically aligned ourselves with a LTE Two-way radio manufacturer to ensure that we can offer future proof and flexible communication solutions.
Neco-Guardian allows us, to offer you the customer, an immediate cost effective and endless voice and data communication solution.
By utilizing our extensive LTE and IP networks we can offer unique services to not just all first responders but all Mission or Business critical customers. As a value add we include access to our Neco-Guardian National Emergency Centre for all users on our Neco-Guardian Network Solution, where we connect you the user to SAPS, EMS and Fire Stations.

02 OUR SERVICES

NECO-GUARDIAN COMMUNICATIONS SOLUTIONS FOR YOUR BUSINESS

- GSM / LTE / IP Solution or Traditional Two-Way Radio
- Redundant servers are hosted and monitored locally by our NOC (National Operations Centre)
- Rental Options or Outright Purchase
- National and Regional Coverage
- Value Added Services
- Neco-Guardian National Emergency Centre
- 24/7/365 – Your communication solution is ready for collection at any time day or night

03 WHAT WE DO

LTE / GSM / IP or Two-Way Radio Solution – Whether your requirements are National or Regional, you can have radio communications at a fixed monthly rate. Guardian removes all historic Two-Way Radio communication barriers such as the cost of network infrastructure, geographical two-way radio limitations i.e. area of coverage, licensing limitations, time constraints, the costs of spectrum and propagation studies and the list goes on …
The Neco-Guardian Solution utilizes National GSM / LTE / IP and Two-Way Radio Networks for communication. Similar to two-way radios, broadcasts can be made to everyone on the network, but with Neco-Guardian national users can now communicate one-on-one, one to many or in broadcast groups. Radio terminals can be monitored and tracked using the Neco-Guardian Dispatching and Tracking software as well as the Neco-Guardian Mobile Application, know where your asset is always.

The Neco-Guardian Network Solution offers a 24/7/365 service. If for any reason there is a fault with your radio there is no need to wait until normal operating hours, our Neco-Guardian National Emergency Centre will have a replacement radio ready and waiting for you to collect 24/7/365.
Neco-Guardian is a simple, yet effective application which can be incorporated into almost any modern-day communication requirement.
NECO has access to a wide variety of technologies, that enable us to ensure that your mission or business critical communications are right for you and your organization.

N.E.C. (NATIONAL EMERGENCY CENTER)
Just in case you ever find yourself in a situation where you need outside help, just one click to get to our N.E.C and there is a NECO-GUARDIAN to look after YOU 24/7/365.

Features of the Neco-Guardian Terminal:

- Group Call / Private Call
- Voice Broadcast
- WiFi Enabled
- Android App
- IP54
- GPS – Tracking
- Dispatcher Software

FEATURES &
FUNCTIONALITY

Half & Full Duplex private voice call

The half-duplex private voice call function allows users to establish or release a call, manage the floor, limit call time, and identify the speaker. In Full duplex receive ringtone and / or answer reject a call.

Panic /SOS Function

Terminal will alert all other radios if in distress.

Recording

Terminals are able to record the last conversation and allow for group and private calls.

Real-time short data

It receives and sends short data between two terminals or between a terminal and the dispatch console.

Android Mobile Application

This application is available with dispatch functionality, it allows to change between groups, do selective private or group calls, track radios via GPS, send and receive multimedia pictures, check & record voice recordings.

Multimedia message

Texts and pictures can be transmitted between two terminals, between a terminal and the dispatch console, or in a group.

Dispatch

It dispatches, or cancels the dispatch of, groups or users, in which case the dispatch console dispatches groups or users to, or deletes them from, DAC screens.

Kill / Stun / Revive

The kill, stun, and revive functions allow the dispatch console to activate or deactivate the specified terminal. After a terminal is stunned, it can be revived only by the authorized dispatch console. After the revival succeeds, the terminal is back to normal status and responds with a confirmation message. After a terminal is killed, it cannot perform any operation or be revived through any message generated by the air interface.

Dispatcher Priority

An authorized dispatch console joins an ongoing group call and obtains the floor of the group call. When the dispatch console exits from a group call, the group call continues.

Voice recording

The dispatch console supports voice recording .

Emergency call alarming

The dispatch console can receive emergency call alarms and join emergency calls.

Real-time location indication & Historical Track query

It supports the positioning of users, groups, and vehicles. It allows users to query historical tracks.

Marquee, Ranging, Geo-fencing, and path deviation alarming

It supports marquees on the map. It supports ranging between two points or multiple points on the map. It supports E-fencing and raises an alarm when entering or leaving the fence. It raises path deviation alarms.

Voice & Video storage

It supports global storage and playback of user audio and video data.

NECO-GUARDIAN NETWORKS DIAGRAM

- Voice communication is transmitted digitally from the radio terminal to your nearest GSM tower, from the tower it utilizes the IP backhaul from the tower to our locally hosted servers, which in return translates voice into secure crystal-clear audio being delivered to and from the Neco-Guardian devices.

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RADIO EQUIPMENT SPECIFICATIONS:

NECO-GUARDIAN T199
GSM Trunking Network Radio, without display, for basic voice operation.

FEATURES:

- Frequency Range: GSM 850/900/1800/1900 MHz WCDMA/3G: 850/2100 MHz
- Chipset: MK6572
- OS: Android 4.4.2
- GPS: Yes
- Bluetooth
- Wi-Fi
- Battery: 4000 mAh
- Dim: 59x37x117mm
- Weight: 220g
- Memory: 4GB
- Certificate: CE FCC Certificate
- Message play back: last 10 messages
- SOS/Panic Function
- Private/Group Calls
- 16 Channels

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NECO-GUARDIAN T320s LTE GSM Trunking Network Radio, with a display and dual sim.

FEATURES:

- Dual Camera
- Operating System: Android 4.4.2
- Extended Memory: up to 32Gb
- Screen TP Display: 2.4QVGA 240*32 multi-point touch screen
- SOS/Panic Function
- Cameras in the front and the back, focus automatically
- Super -strong standby more than 800 hours
- 32-diameter speaker with double chambers
- Positioning system supports GPS with assisted GPS (A-GPS)
- Support WIFI/ BT/ MP3/MP4
- IP54 protective design, military quality
- Weight: 220g
- Certificate: CE FCC Rohs Certificate
- Battery capacity: 3500mAh

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THE NECO-GUARDIAN TM-8
GSM Trunking Network mobile radio with display & Dual sim

MODEL: TM-8

- Frequency: 1.2GHz
- Network: WCDMA 2100MHz / GSM 850/900/1800 MHZ In
- Platform: MTK 6572A
- Operating System: Android 6.0
- RAM - 512M+4G Optional: 1G+8G)
- Extended Memory: Up to 32Gb
- Screen TP display: IPS2. 45" 240 *32
- GPS + Compass: 12-24V
- Input Power: 12-24V
- SOS/Panic Function
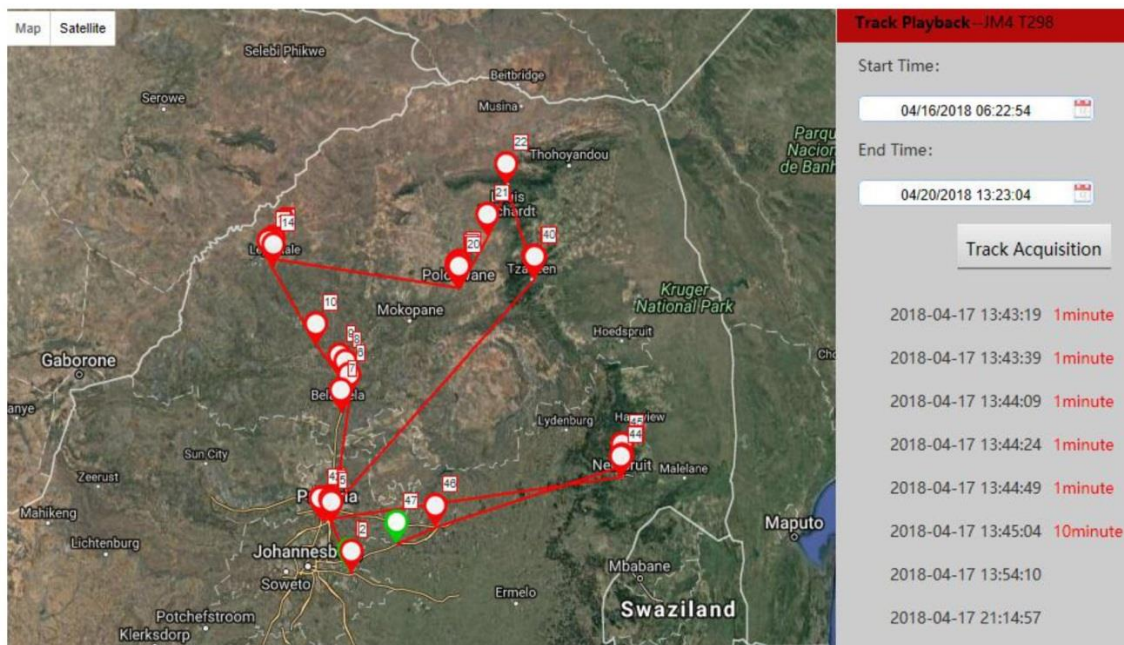- Speaker + Mic: 45Diameter speaker, 7W
- BT: Yes
- USB: MICRO 5PIN date cable
- Media player: Supporting MP3/MP4

AVAILABLE COUNTRYWIDE

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NECO-GUARDIAN SYSTEM FEATURES:

Group Call
Private Call
Over the Air Programming
Voice Recording
GPS -Tracking
Dispatcher Software
Mobile Android application
Regional, National coverage & Cross Border
SOS/Panic Function
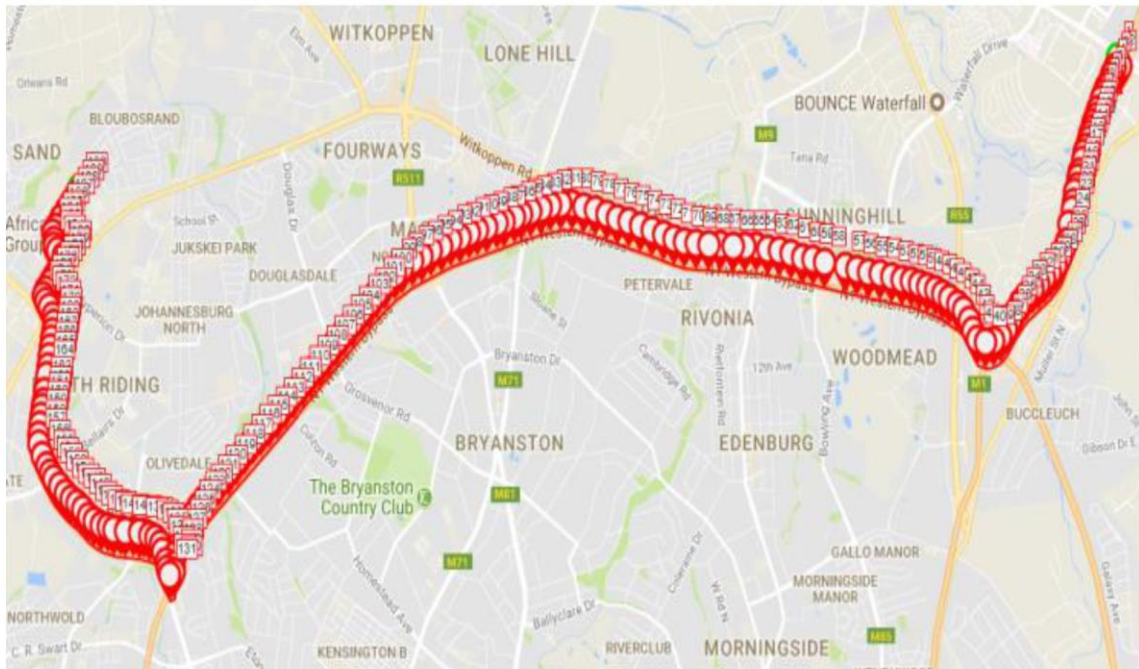
DISPATCHER SOFTWARE

Dispatcher can be a web base log in or the software can be installed on a pc
User access are defined with a log in id and password
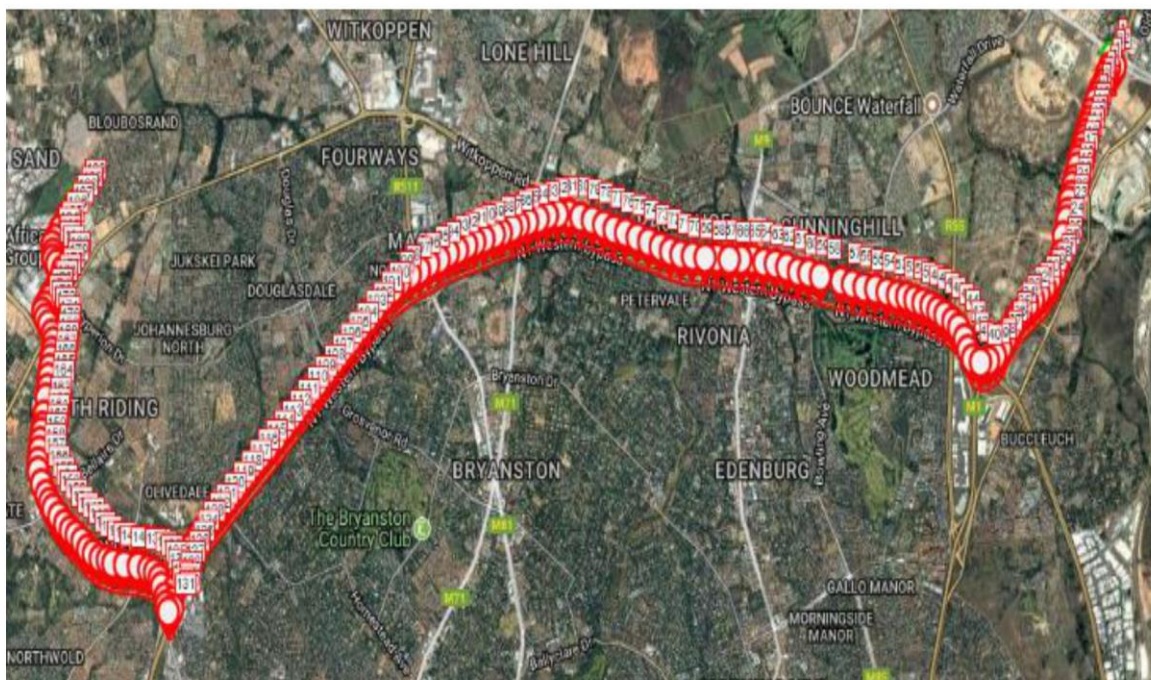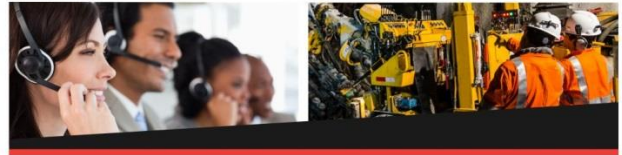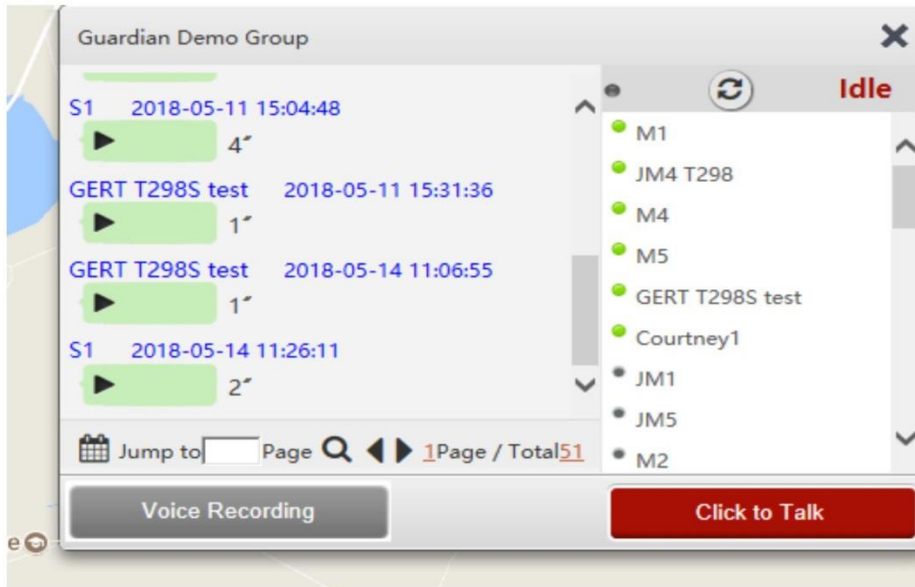
LIVE GPS TRACKING & HISTORY PLAYBACK

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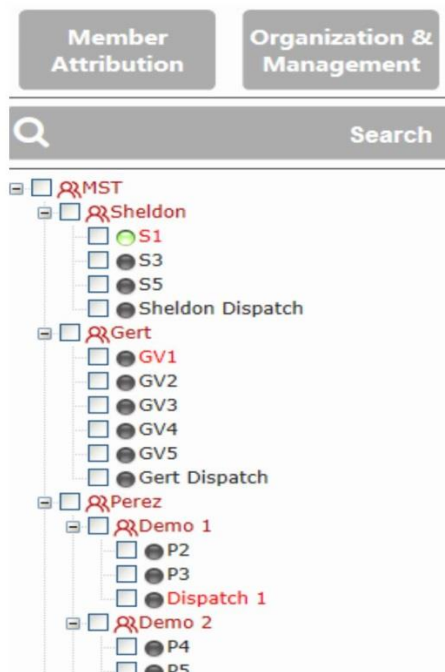ERF 6751 PROPERTIES - CSD NO: MAAA0098572

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MAP VIEW

SATELLITE VIEW

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VOICE RECODING & PLAYBACK

ADD/REMOVE AND CREATE MEMBERS & GROUPS ON THE GO

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SEND PICTURES AND MESSAGES TO AND FROM DISPATCHER

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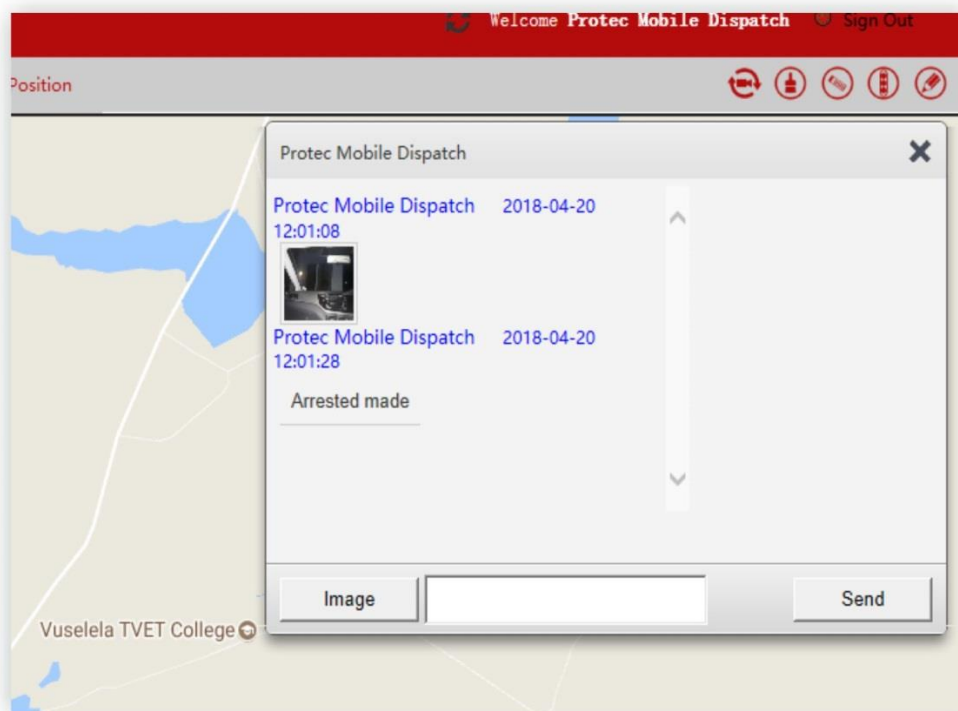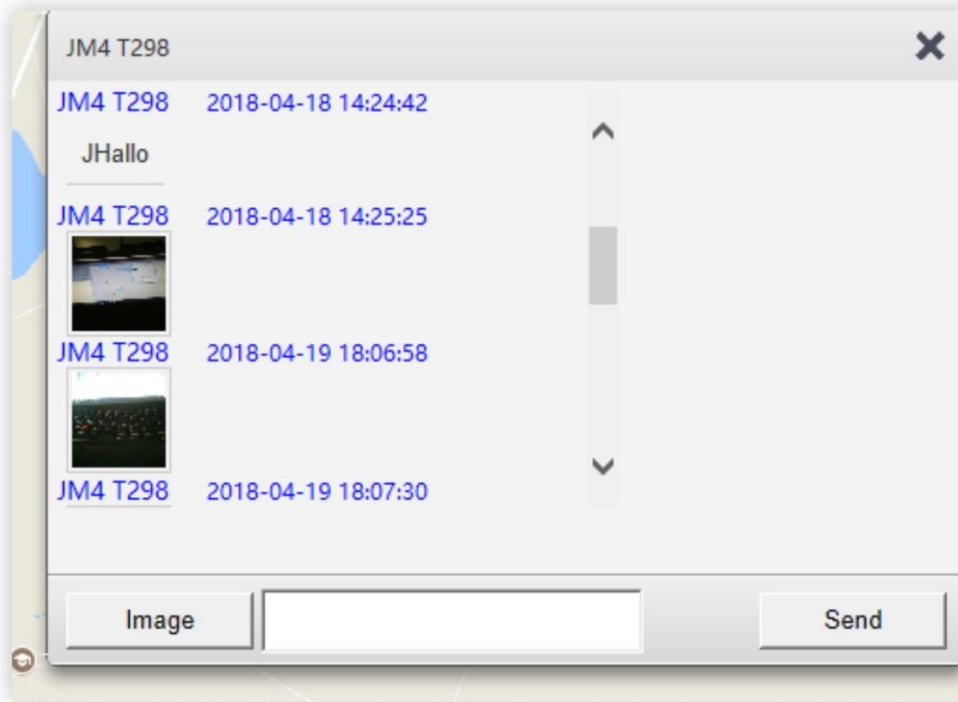
MOBILE ANDROID APPLICATION

Our Mobile Application runs on a Android operation system

This Application can be installed via software or software can be downloaded from our FTP site
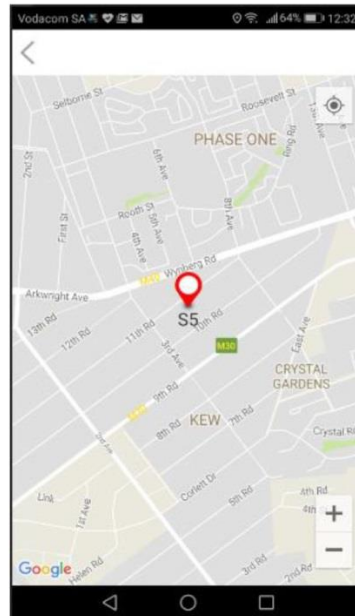
- **VIEW ONLINE MEMBERS**
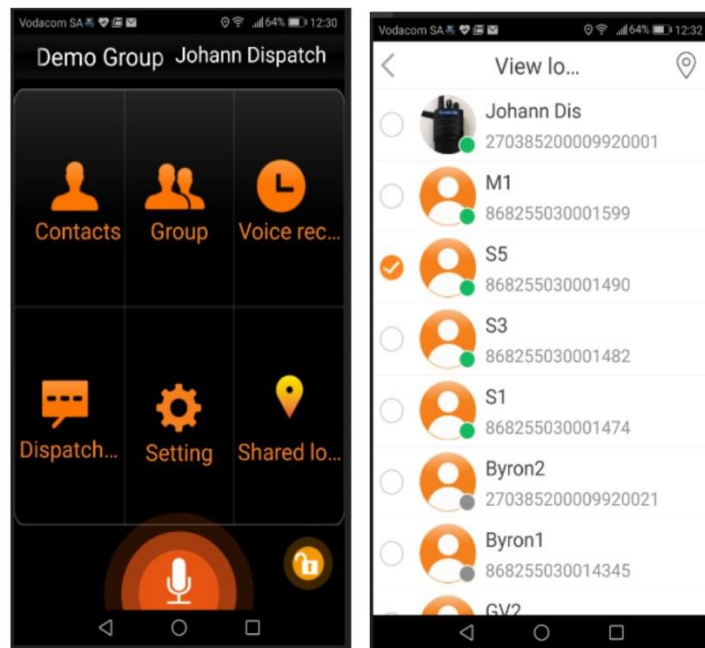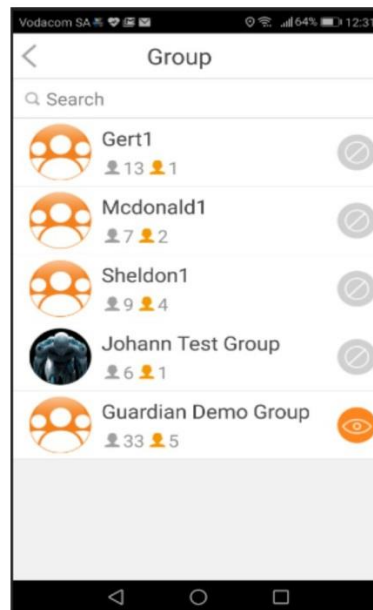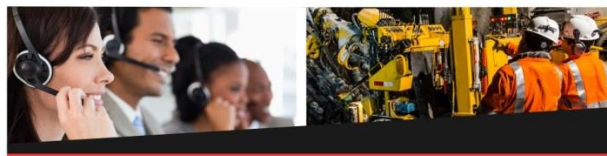

- **RECORD ONLINE CONVERSATIONS**

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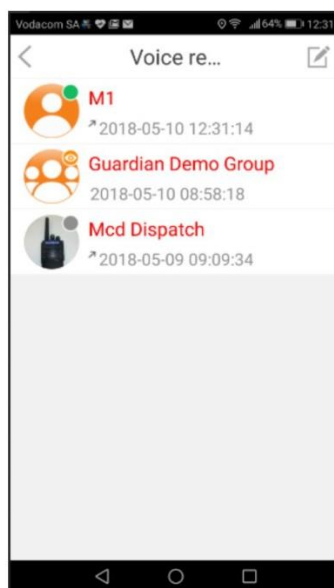
- **GPS TRACKING FROM YOUR MOBILE APPLICATION**
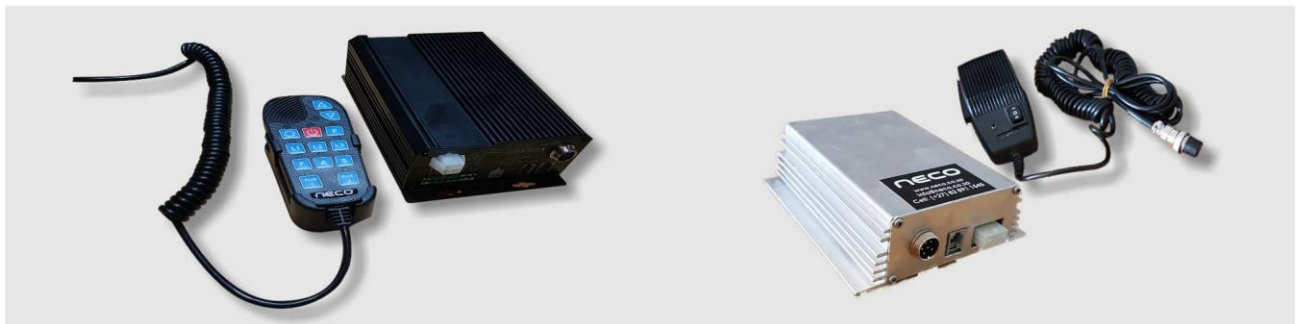

- **SELECT & CHANGE GROUPS ON THE GO**

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- **MAKE PRIVATE CALLS TO INDIVIDUAL MEMBERS**

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