

GeoGuardTour

Localization and Realtime Tour Management on DMR Radio Network

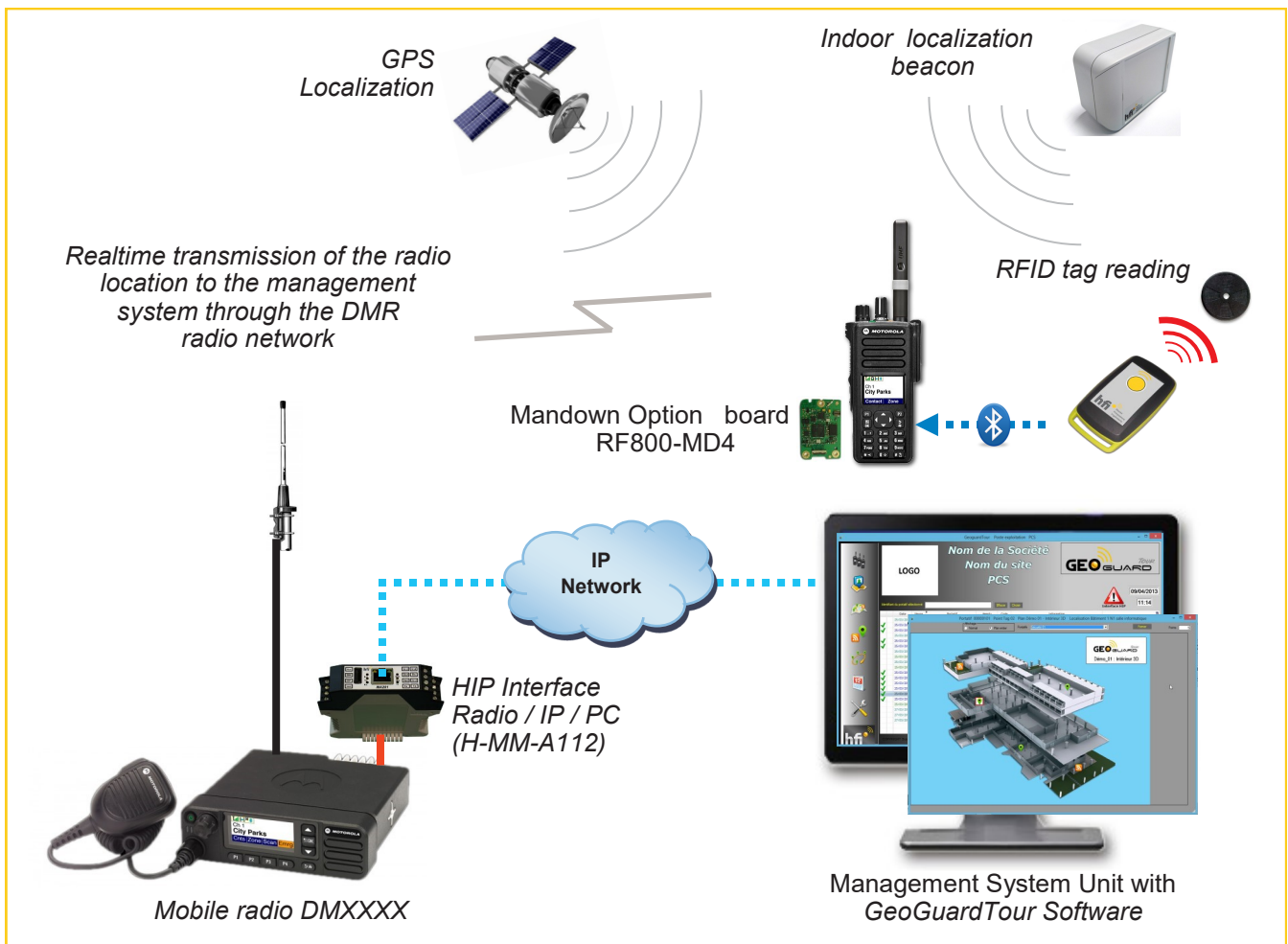
GeoGuardTour is a hardware/software package that enables the management and operation of tour and the indoor/outdoor localization of DMR radio terminals.

The combination of PC software with a Motorola MotoTRBO DMR radio network allows to monitor, track, log and display in real-time the location and movement of operators anywhere.

The portable radio can have a GPS receiver, and can be fitted with an option board for receiving indoor localization beacon, and a tag reader (RFID or Dallas) allowing it to read the tags installed at various areas of the site.

Possible events or anomalies can be sent by the radio to the management system through the radio network (beacon detection, tags reading , Mandown ...).

Voice messages or text are broadcast on the radio, to inform the operator of potential anomalies, to confirm a reading of tag ... The system also manages Mandown and timeouts alarms. A message is then broadcast on the radio channel and a window appears on the screen, allowing you to quickly locate the agent in trouble.



KEY FEATURES OF THE SOFTWARE:

- Real time localization of DMR radio
 - ⇒ *Indoor by RF800 radio beacons*
 - ⇒ *Outdoor by GPS*
- Real time tour management by RF800 beacon and / or RFID tags
- Management of Mandown Alarm with on map localization
- Management of keepalive alarm
- Real time monitoring of radio position and tour progression.
- Management and allocation of radio terminals and users assignment
- Management of radio terminals (on/off)
- Viewing of the general activity of all terminals
- Tour history with multi criteria search
- Report on events or incidents

NEW FEATURES OF THE SOFTWARE:

- Management of Technical Alarm with on map localization
- Enable/Disable option for realtime radio localization
- Report of HIP communication default

Key Benefits of the HIP interface (MA-112) :

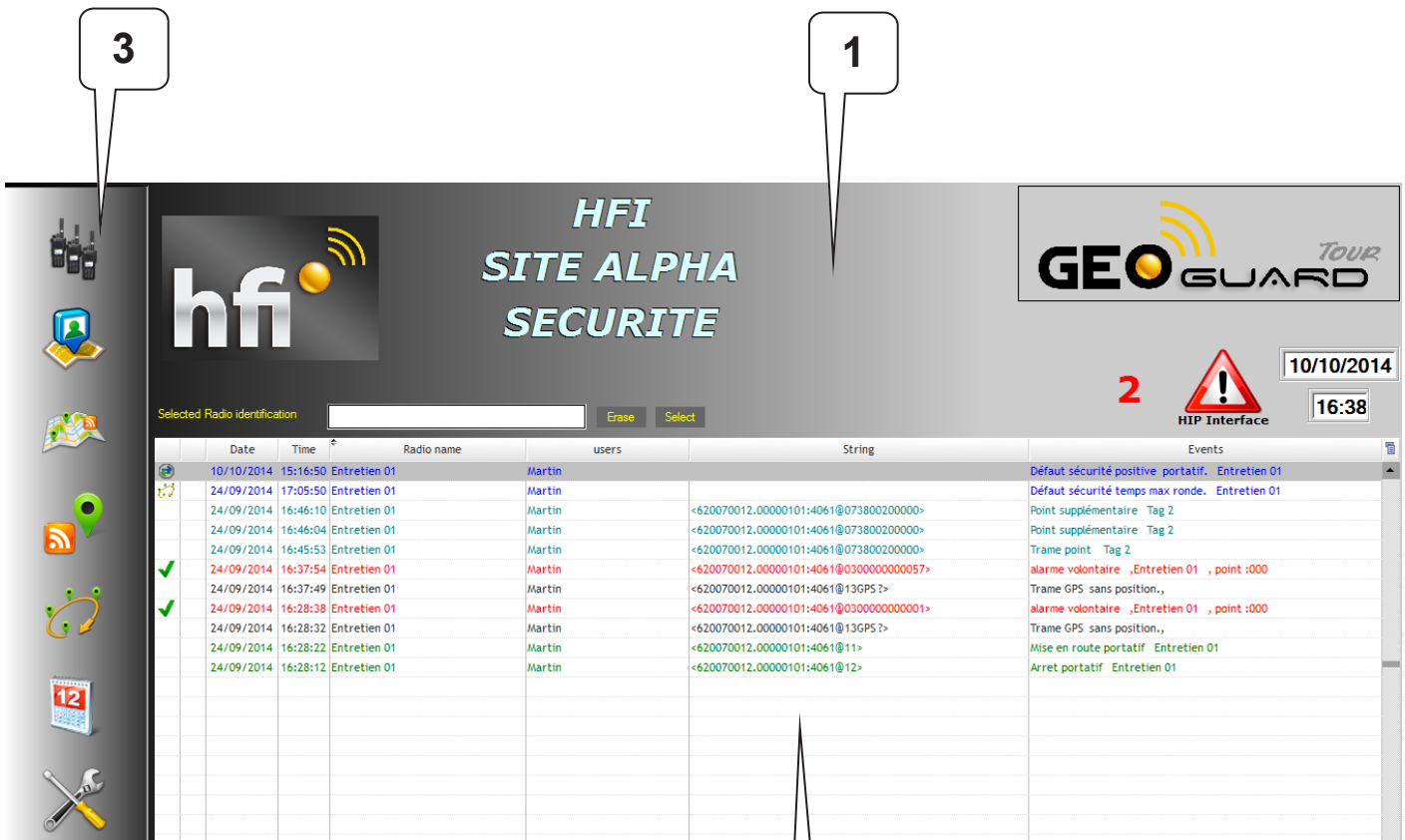
- Allow the connection to the radio control station via IP network
- Support for management of voice messages and allow their broadcast to the radio network
- Support Keepalive safety
- Support most DMR MTOTRBO network protocols (control of the radio state , Bluetooth messaging, IP, etc.)

This simple and powerful software offers a modern and user-friendly operating architecture.

The structure of the main window of the "operating mode" application consists of :

1. A top banner to display custom corporate identity or location of operations, and the date, time and connection status with the HIP interface.
2. Real time view of events
3. A side panel consists of 6 icons for quick access:

-  • Radio Management
-  • Radio Localization
-  • On map activities view
-  • Tags and beacons configuration
-  • Tour history
-  • General history
-  • Administration mode



The screenshot shows the main window of the HFI software. At the top, there is a banner (callout 1) with the HFI logo, 'SITE ALPHA SECURITE', and the GEO GUARD TOUR logo. On the right side of the banner, there is a date and time display (10/10/2014, 16:38) and a warning icon labeled 'HIP Interface' (callout 2). On the left side, there is a vertical sidebar with six icons (callout 3) corresponding to the menu items listed above. Below the banner is a search bar for 'Selected Radio identification' with 'Erase' and 'Select' buttons. The main area contains a table of events.

Date	Time	Radio name	users	String	Events
10/10/2014	15:16:50	Entretien 01	Martin		Défaut sécurité positive portatif. Entretien 01
24/09/2014	17:05:50	Entretien 01	Martin		Défaut sécurité temps max ronde. Entretien 01
24/09/2014	16:46:10	Entretien 01	Martin		Point supplémentaire Tag 2
24/09/2014	16:46:04	Entretien 01	Martin	<620070012.00000101:4061@073800200000>	Point supplémentaire Tag 2
24/09/2014	16:45:53	Entretien 01	Martin	<620070012.00000101:4061@073800200000>	Trame point Tag 2
24/09/2014	16:37:54	Entretien 01	Martin	<620070012.00000101:4061@0300000000057>	alarme volontaire ,Entretien 01 , point :000
24/09/2014	16:37:49	Entretien 01	Martin	<620070012.00000101:4061@13GPS ?>	Trame GPS sans position,,
24/09/2014	16:28:38	Entretien 01	Martin	<620070012.00000101:4061@030000000001>	alarme volontaire ,Entretien 01 , point :000
24/09/2014	16:28:32	Entretien 01	Martin	<620070012.00000101:4061@13GPS ?>	Trame GPS sans position,,
24/09/2014	16:28:22	Entretien 01	Martin	<620070012.00000101:4061@11>	Mise en route portatif Entretien 01
24/09/2014	16:28:12	Entretien 01	Martin	<620070012.00000101:4061@12>	Arret portatif Entretien 01

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GeoGuardTour System Components



H-MM-A112
HIP Interface
radio / IP / PC



RF800-BP
Indoor Localization
Beacon

GeoguardTour Operating station SECURITE

HFI

SITE ALPHA

SECURITE

Selected Radio identification Erase Select

Date	Time	Radio name	users	String
10/10/2014	15:16:50	Entretien 01	Martin	
24/09/2014	17:05:50	Entretien 01	Martin	
24/09/2014	16:46:10	Entretien 01	Martin	
24/09/2014	16:46:04	Entretien 01	Martin	
24/09/2014	16:45:53	Entretien 01	Martin	
24/09/2014	16:37:54	Entretien 01	Martin	
24/09/2014	16:37:49	Entretien 01	Martin	
24/09/2014	16:28:38	Entretien 01	Martin	
24/09/2014	16:28:32	Entretien 01	Martin	
24/09/2014	16:28:22	Entretien 01	Martin	
24/09/2014	16:28:12	Entretien 01	Martin	

GeoGuardTour
With on map localization



Tag reader :

- CP600-RF for Dallas tags with RF-FSK transmission by the PTI option card ,compatible DP3X01 & DP4X01
- BlueLoc reader for RFID tags with Bluetooth transmission, compatible DP4X01