



EMBAILS SAFE
GPS MONITORING

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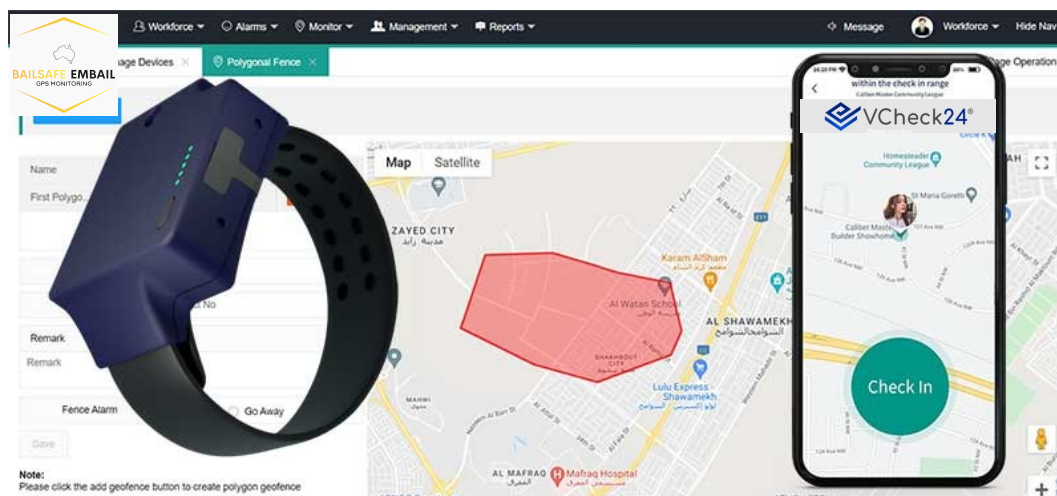
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1. EMBAIL GPS MONITORING

Integrated Patient Monitoring

The EM BAIL program utilizes two concurrent electronic tracking systems and multiple tracing methods to monitor court-involved patients' compliance with bail conditions.

The EM Bail system monitors the patient via;

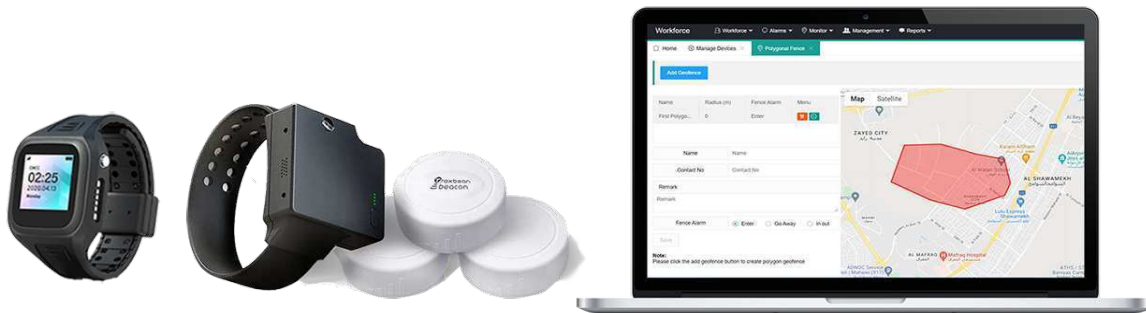
- a. Wearable GPS
- b. VHCECK24

The combination of both smartphone applications and wearable GPS tracking devices are designed to provide comprehensive support throughout the bail period with functionalities such as video check-ins, continuous GPS tracking, real-time alerts, and reporting.

a. Wearable GPS Tracking Device

Tamper-Resistant: The participant wears a tamper-proof GPS tracking device that will alert if removed.

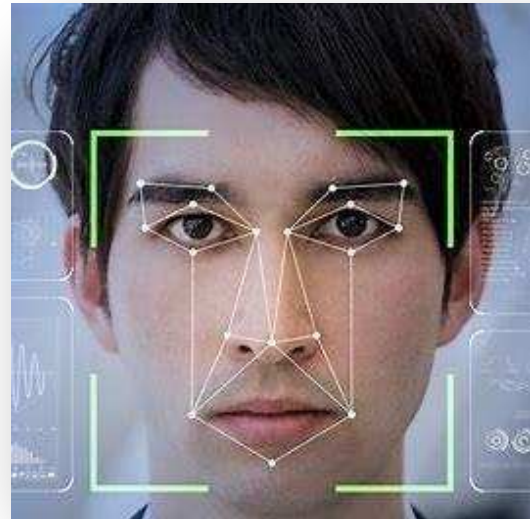
Real-Time GPS Tracking: The device records location date, and timestamp. The device enables real-time tracking of the participant's movements and visited locations, providing continuous monitoring and supervision



b. Vcheck24 Phone Application for Bail Participants

EM Bail Smartphone applications is a virtual supervision technology specifically designed for court-involved patients. This smartphone application offers the following key features:

- **Video Check-ins:** Patients are prompted to provide their name, location, and read two random words displayed on the screen. Video check-ins serve as verification for curfew, attendance at police stations, and employment attendance.
- **Continuous GPS Tracking:** The application provides real-time GPS tracking, allowing monitoring of the patient's movements and visited locations. Stop locations are recorded for comprehensive tracking and historical analysis.
- **Daily Patient Report:** Automatic daily reports are generated, detailing patient location points, video check-ins, and zone events. These reports are sent to the nominated police informant for regular monitoring.
- **Two-Way In-App Messaging:** Patients can directly communicate with relevant stakeholders through the application's messaging feature, facilitating secure and efficient communication.
- **Alerts:** Alerts are sent to one or multiple persons via email and/or text message, enabling prompt response to any violations or non-compliance.
- **No GPS Alert:** The system provides alerts if a patient attempts to tamper with the application by deleting it, deactivating location services, or turning off their phone.
- **Access:** Informants or nominated parties are granted unique user logins, providing them with direct and real-time access to GPS tracking data, scheduled alerts, and alarms specific to the nominated bail participant.



Advanced Facial Recognition A key feature of VCheck24 is its advanced facial recognition technology. This feature is meticulously engineered to identify the individual undertaking the VCheck. It works by comparing the live image of the user with a pre-registered image in the system's database. This comparison ensures that the person performing the VCheck is indeed the registered client, thereby preventing impersonation or fraudulent check-ins.

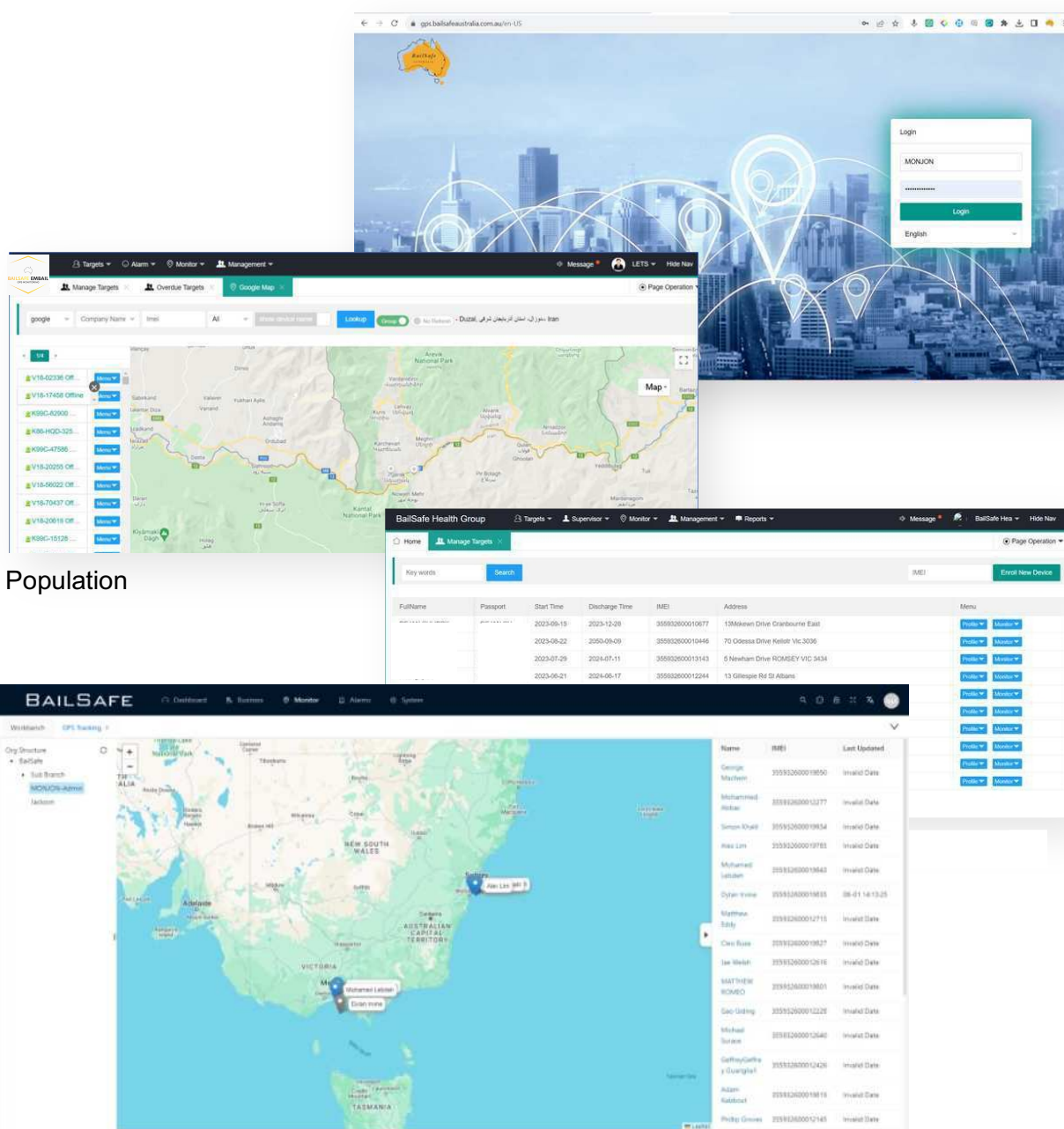
Liveness Detection In addition to facial recognition, VCheck24 incorporates a state-of-the-art liveness detection feature. This aspect is crucial in distinguishing a live human face from photographs, videos, or three-dimensional models. The liveness detection ensures that the system is interacting with a real person in real-time, effectively negating attempts at spoofing or deception.

2. Improved access to alerts and GPS data

When the tracing application is utilized in both VCheck24 and BailSafe Embail systems, the tracking data and alerts are accessed and able to be sent to the key stakeholders:

Informant: They can actively monitor the participant's GPS tracking data, scheduled alerts, and alarms in real-time. This direct access allows them to stay updated on the participant's movements and ensure adherence to bail conditions.

Person Providing Surety: The person providing surety, who plays a crucial role in supervising the participant's compliance with bail conditions, also receives access to the tracing application. This access allows them to actively monitor the participant's GPS tracking data, receive alerts and notifications, and ensure the individual is meeting their obligations.



3. Geofence Boundaries

A geofence is a virtual boundary that provides capacity to monitor specific locations by setting customized boundaries around geographic locations.

Geofencing monitors clients stay within or out of specific locations. If they breach the boundaries, immediate notifications are triggered, enabling intervention, and promoting adherence to bail conditions.

- **Curfew:** Geofencing helps enforce curfew requirements and restrict access to locations of risk.
- **Reporting:** Geofencing provides precise location data for reporting purposes.
- **Customized:** Geofencing allows for tailored supervision based on individual needs and court requirements.



4. 24-Hour Monitoring Room

24-Hour Monitoring: The program provides round-the-clock monitoring services to ensure constant supervision of individuals on bail, enabling timely responses to violations or emergencies while maintaining a high standard of Bail Supervision.

Grade 1 Accredited Security Control Room: The security control room holds top-grade accreditation, signifying exceptional security and monitoring capabilities.

5. BailSafe Smartphone Application

The BailSafe smartphone application, available on iOS and Android devices, allows family members to access real-time GPS tracking data and reports specific to their loved one.

This App allows families to monitor location 24/7 and receive alerts if their loved one is outside the bounds of their bail conditions. It will provide SMS, email, and push notifications through the phone app every time the bail participant leaves and enters the bail address. It will also alert if the GPS system is not tracking or if any attempt is made to tamper with it.



6. GPS Location Monitoring Indoor Room Positioning

GPS Location Monitoring Indoor Room Positioning enables tracking and monitoring of individuals within the home, specifically within rooms. Unlike traditional GPS systems that rely on satellite signals for outdoor positioning, indoor room positioning utilizes Bluetooth and Wi-Fi with specialized beacons to establish location information.

The beacons emit signals that are detected by the GPS devices. The system can determine the location of the device within the indoor space.



Appendix 1

TR40 Device Description GPS ANKLE MONITOR

TR40 Device Description

The TR40 is a tracking device equipped with the SL8521E chip, running at 1.3GHZ. It utilizes a dual-core ARM Cortex A53 processor. An LED indicator is present on the device.



For network connectivity, the TR40 supports multiple frequency bands across FDD, TDD, WCDMA, and GSM. It uses a Nano Sim card and operates on the Android 4.4 system. The device has a memory configuration of 512M+4GB and includes GPS functionality. The GPS system is complemented by a high-sensitive LDS antenna.

The device's primary power source is a 4000mAh battery. An optional 5000mAh portable charger is available. The TR40 is designed to be water-resistant, with ratings of IP67/IP68. It offers Wi-Fi and Bluetooth 4.2 connectivity options.

TR40 Standard Issue Accessories



The TR40 provides real-time tracking using various methods, including GPS, WiFi, LBS, BDS, and AGPS. It has a tamper-proof alert system, geofence alert capabilities, and a low battery alert. The device also supports one-touch SOS alerts and two-way communication.

Specification of TR40

- Main Chip: SL8521E (1.3GHZ)
- Processor: Dual-core ARM Cortex A53
- LED: Yes
- Frequency Band:
- Sim Card: Nano Sim Operating System: Android 4.4 Memory: 512M+4GB
- GPS: Yes
- Tracker Battery: 4000mAh (3.7V) Portable Charger (optional): 5000mAh GPS Signal: L1, 1575.42MHz C/A code Charger: Magnetic charger
- GPS Antenna: High sensitive LDS
- Wristband: ABS+TPU
- GPS Chip Receive Sensitivity: Waterproof: IP67/IP68 Speaker/Mic: Yes
- WIFI Connection: Yes
- Bluetooth: 4.2
- Size: 81.927022.88cm



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