



**GEOSATIS**

Company & Solutions

## GEOSATIS

GEOSATIS is the world's leading maker of end-to-end electronic monitoring and predictive analytics solutions for the criminal justice system. The company was founded in 2011 as a spin-off from the renowned technical university of EPFL in Lausanne, Switzerland – and has been focused ever since at revolutionizing the electronic monitoring industry.



### **Our mission**

**WE CONTRIBUTE TO A MORE HUMANE AND SAFER SOCIETY**

GEOSATIS offers a secure, reliable, convenient and cost-effective electronic monitoring solution for enhanced public safety and successful offender rehabilitation - using Swiss precision, quality and innovation.

### **Our vision**

**NO MORE PRISON OVERCROWDING, NOR RECIDIVISM**

GEOSATIS proposes a viable and cost-effective alternative to imprisonment which can help cut prison overcrowding and reduce recidivism. Our solution allows offenders to maintain a professional activity, take care of their family, and make a positive contribution to society.



### **Our values**

**HUMANISM, RESPECT, PASSION, INNOVATION AND EXCELLENCE**

At GEOSATIS, we believe in the power of people and technology. Our corporate values drive us to optimally address the challenges faced by the criminal justice sector, through in-depth understanding of customer's needs and breakthrough innovations that challenge the status quo and deliver radically better products and services.

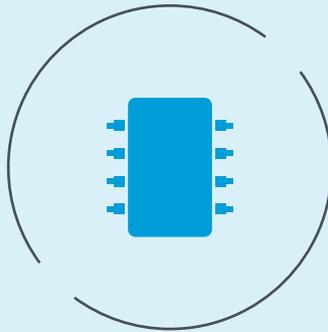


## COMPLETE SOLUTION PROVIDER

As a complete solution provider, GEOSATIS offers a **unique range of expertise** at every stage from product innovation and design all the way to customer solutions implementation and support. With headquarters based in the Jura watch valley, GEOSATIS and its partners make the best use of **Swiss know-how** in micro-mechanics and wearable devices.



**Mechanical and ergonomic design**



**Embedded software engineering**



**Web & app software development**



**Big data analytics**



**Customer service & support**



**EM Advisory services**

## FULL-RANGE OFFERING

### Location tracking

Using the satellite positioning capabilities of our GPS/RF one-piece bracelet



### Home curfew

Using the bracelet in conjunction with our indoor base station



### Victim protection

Using the bracelet in conjunction with our victim protection device



### Big-data analytics

More predictive services leveraging the full potential of artificial intelligence and big-data analytics



### Management & supervision

Monitoring multiple offenders, defining restrictions, managing alarms - using any device from the GEOSATIS solution

Serving all use cases for the criminal justice system

### Pre trial



- Preventive
- Bail

### Prison



- Indoor tracking
- Transfers
- Temporary leave

### Probation



- Location tracking
- Home curfew
- Victim protection

## LOCATION TRACKING

The GEOSATIS electronic bracelet is the most secure, reliable and convenient **GPS/RF one-piece** ankle bracelet on the market - combining a unique, robust and easy to use **toroidal shape** design with state-of-the-art secure and precise geo-localization technologies.



## HYBRID ANKLE BRACELET



### Multiple GNSS support

GPS, Galiléo, Glonass, BeiDou



### Opening / Closing

Quick, easy and secure



### Lightweight

Less than 185 grams

GEOSATIS has improved the functionalities of its bracelet with a higher level of **encryption** and the inclusion of a **dual SIM-card** slot to maximize mobile networks connectivity.

Thanks to a sophisticated **multi-sensor tampering detection**, any attempts to open or damage the bracelet are detected and reported immediately to the monitoring center, while its superior engineering decreases false tamper nuisance.

## MOBILE CHARGER



### Freedom of movement

Wireless charger



### Multiple charging solution

Micro USB or using the base station



### Water resistant

IP 67



## HOME CURFEW

The GEOSATIS base station offers the functionality to locate the offender **indoors** using a **radio frequency** link to connect to the electronic ankle bracelet. Additionally, its real-time video and authentication capabilities provide officers with more options to check the offender's status. Thanks to its small size and innovative design, the base station will easily fit in the offender home's. The base station is **splash-proof, robust and secure**. The installation is quick and easy. Once the base station is installed it can't be moved thanks to its embedded motion detection sensors that will immediately trigger an alarm at the monitoring center.



## BASE STATION



### Mobile charger docking station

Convenient charging solution



### Communications

Calls / text messages / Shared calendars



### Biometric authentication

Fingerprint

## BEACON

GEOSATIS has also developed a **simplified** version of the base station – the beacon – which focuses on the core functionality of indoor location.



### Indoor location



### Motion detection sensors



### 2 years battery life



## VICTIM PROTECTION

The GEOSATIS victim protection device has been designed in the context of **domestic violence** with the objective to reassure the person under protection through a simple and inconspicuous tool that enables to quickly contact the police whenever it is needed. The device also allows the protected person to move freely surrounded by a **mobile safety zone** and works in conjunction with the GEOSATIS bracelet worn by the offender.



### Mobile safety zone

Paired with the bracelet of the offender



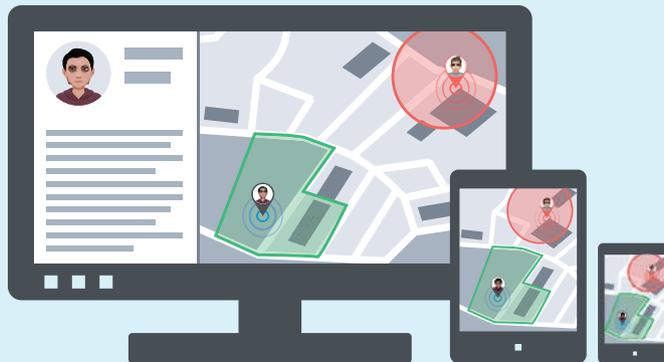
### Emergency button

Triggers an alarm in case of insecurity



### Automatic recording

Pictures/sounds that can be used as an evidence in court



## MANAGEMENT AND SURVEILLANCE

The GEOSATIS **monitoring software** is a web-based application that allows the management and supervision of offenders during the entire rehabilitation process. It also comes in a **mobile application** version enabling supervisors to continue to perform their job on the go.

- **Inclusion / exclusion zones**
- **Curfew constraints**
- **Alarm management and reporting**

This single software solution lets the supervisor configure and oversee multiple offenders using any devices from the GEOSATIS product's portfolio (the electronic ankle bracelet, base station, beacon and victim protection device).

To go further and beyond alarms that are simply reactive, GEOSATIS is also developing more **predictive** services leveraging the immense potential of **artificial intelligence** and **big data analytics**.

# GEOSATIS

securing people

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