

AUSTRIACARD HOLDINGS AG: Our new leading edge solution INFORM Sensitive Goods Monitoring – is monitoring real-time remote repository conditions

A new and leading-edge solution, INFORM Sensitive Goods Monitoring was developed, as an **integrated end-to-end service for real-time remote tracking of a van or truck for monitoring repository conditions**. For logistics purposes, it provides **visibility** during the whole transit process, which enables logistics services to **react and adapt to incidents as they occur and prevent potential damage to the shipment**.

The solution consists of a unique device designed for the monitoring process during the transportation of perishable goods (including fruits, vegetables, seafood, meat) as well as pharmaceutical products.

Our solution includes a custom-made hardware that captures temperature, humidity and other data with internal and external sensors, via global cell network connectivity. It also offers encrypted communication to INFORM cloud platform through an end to end secure element, via an intelligent firmware developed and a number of new modern technologies embedded such as Machine Learning (ML) and Complex Event Processing (CEP).



With regards to the hardware part, the PCB manufactured supports the communication with network - NB-IoT LTE CAT M1 with embedded SIM or plastic SIM 2FF as well, including a GNSS Module for location, a number of embedded sensors like temperature, humidity and accelerometer. The main CPU is based on ESP32 including Wi-Fi and Bluetooth features. The PCB also supports the LORA module, in order to be able to communicate in case the device is not able to connect with the cellular network. The Generic Bootstrapping Architecture (GBA) technology is enabled via the secure module, supported for encrypted communication between device and cloud addressing standard encrypted algorithms, for device authorization and authentication.

The results of the real time observing capabilities are provided through INFORM cloud web-based application of the monitoring framework. For example, during transportation, the conditions of the refrigerated container may change (due to power fluctuation, mechanical malfunction, etc).

This project will introduce additional opportunities in the market overall, and will **add significant value** to existing and new customers in the logistics and maritime sectors, as they will be able to **streamline processes, improve efficiency and decrease operational costs**.

AUSTRIACARD (HOLDINGS)



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ABOUT AUSTRIACARD HOLDINGS AG

AUSTRIACARD HOLDINGS AG is a Technology company that draws upon more than 130 years of experience and innovation in the fields of information management, printing and communications, to provide customer experiences totally imbued in transparency and security. The company offers a complementary portfolio of products and services in payment solutions, identification, smart cards, personalization, digitization and secure data management for the Financial, Government, and the general Private sectors, through a workforce of 2,500 people internationally and is listed on the Athens and Vienna Stock Exchanges (ACAG).

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