Case study

COPPERNIC
MOBILITY ▪ CONNECTED DATA ▪ ANALYTICS

LAUNDRY: THE TRACEABILITY SOLUTION FOR FLAT LINENS

CONTEXT

Customised RFID solutions have been one of Coppernic's core activities for several years. Coppernic has developed this technology and has adapted customised solutions designed for different industries, in particular the laundry sector.
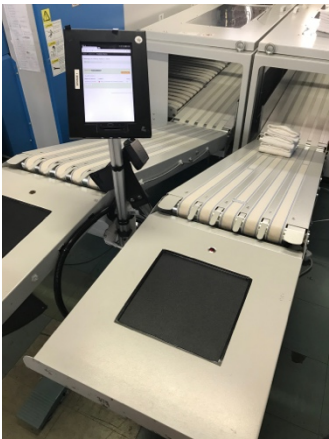

Coppernic was commissioned by Elis and Wartner to design a comprehensive and tailored UHF RFID solution to **optimise the flat linen traceability processes** now used in their factories.
The linens supplied by these companies are already equipped with UHF RFID tags.

For establishments that need a constant supply of clean linens, uniforms, workwear, and medical garments, this solution allows large volumes of items to be tracked quickly and accurately using automated systems.

SOLUTION

To address this issue, **Coppernic developed solutions that are perfectly suited to the environment throughout the entire laundry process.**

The process takes place in a closed loop with several key phases:

- Product identification and registration using a fixed or mobile RFID encoding station.

- Monitoring of the dirty laundry upon reception using a fully integrated xPortal-type entry gateway.

- Receiving area with xPortal RAIN RFID reader -

- Monitoring of laundry throughout the sorting/washing/folding process by: RFID conveyor, RFID reading table, RFID strapping machine, RFID sling.

- Monitoring of clean laundry at dispatch using a Faraday cage-type RFID gateway

- RFID folding table with integrated antenna -

- Additional features such as item search or on-site inventory monitoring using UHF RFID mobile devices.

This means the company can know exactly how many items are available or have been returned and are on site in real time.
There are multiple stations throughout the factory to ensure that the items are continuously monitored and their status is updated.
The data is uploaded to a Web server that collects all of the data and the history of the laundry. For WARTNER, the RFID readers are controlled by the Speedway Connect embedded application that can be used to configure the readers.

RESULTS

Elise installed the Coppernic solution in its two Nanterre-based factories, and Wartner installed the solution in both its main factory and at the premises of its main client, the hotel George V.

These companies now greater visibility over the lifecycle of their textiles. They can improve the services offered to their clients thanks to an accurate view of the deliveries, allowing them to optimise their inventory and their orders.

The expertise of Coppernic's engineers and technicians allowed us to innovate and implement customised solutions to optimise laundry monitoring for these companies.

- RFID conveyor -

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