

## 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.

On behalf of a number of companies, Coppernic has created a complete UHF RFID solution tailored to **optimize flat linen traceability processes**, which now equips several factories. The linen items 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.



- RFID folding table with integrated antenna -

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**.
- 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**.
- 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. In some cases, the RFID readers are controlled by an on-board **Speedway Connect application**, enabling them to be parameterized.

### RESULTS

Equipped companies now have better visibility of the life cycle of their textile products. They can improve the services they offer their customers by gaining a precise view of deliveries, enabling them to optimize their inventories and 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 -