

CASE STUDY

GUARANTEE THE FOLLOW-UP OF THE LAUNDRY WITHOUT CAUSING BREAKS IN THE MANUFACTURING AND SUPPLY PROCESSES



About UBI Solutions

UBI Solutions, is a **French company** located in Paris and a **pioneer in RFID solutions**. It has a solid experience in the **implementation of textile applications based on RFID technology** in Cloud environments, since 2008. With **more than 600 installations** in hotels, hospitals, laundries, logistics centers and retail, it is **one of the leading organizations in Europe** in the technological solutions market.

About Fenotag

Based in Aix-en-Provence, Fenotag is a **French manufacturer of RFID products** that has patented, designed and manufactured its own **fully automated production lines**. They produce various electronic products, including specific **RFID chips** on a textile support 100% Made in France, with a unique and never seen in the industry. (**more than 40 references in the catalog**).

SUMMARY

1. RFID chips to track linen

2. Pioneer and innovative partners

3. UBI Solutions, the benchmark in textile traceability

About Texpa

TEXPA is a **world leading manufacturer** of fully automated machines for cutting, sewing, folding and packaging home textiles. With **over 50 years of machine manufacturing expertise and specialization in home textiles**, they are a respected partner for individual manufacturing automation..

About Tissus Gisèle

A true **specialist in professional flat linen**, TGL Tissus Gisèle is a **French clothing company** that offers an original range of linen. Their products are manufactured with the **greatest rigor thanks to a perfect mastery of the various manufacturing processes**: from cotton fiber to the finished product. The brand equips professionals in the hotel, restaurant, retail and craft industries.

RFID CHIPS TO TRACK LINEN

But what is **the point of putting chips** on the linen? Here is a question that comes up very often in conversations with our partners, linen manufacturers, hoteliers, launders, hospitals and textile machine manufacturers. But not only. An anecdote: during the pandemic, on August 14, **the General Director of health in France**, questioned on the issue by a France Inter auditor: "I can tell you that French fabric masks are excellent, I wear them every day and they have a much better impact on our environment, we can wash them, reuse them. They are made in France, near your home and do not have an integrated chip, I can guarantee that ".

Well no! He couldn't guarantee it. At UBI Solutions, we used chips to **track the number of mask washes**. In fact, the fabric mask protection guarantee is **only valid if the number of washes is respected**.

[It had caused a bit of buzz on the web in the middle of August.](#)

1

Wear the
Connected Mask



Washable and reusable
cotton mask

Resistant to 30 washes

Incorporated with a QR
Code

2

Scanning the QR
Code with a
smartphone



The QR code on the mask is
scanned. It can be read
using a smartphone
camera or an application.

In fact, UBI Solutions has been **incorporating chips in the laundry since 2011**. It was at the SCNF (former French national railway company) that the **first application for monitoring night quilts was set up**, followed shortly after by the first inter-hospital laundries like Saint-Germain en Laye under the technical direction of Mr. Luc Videau and the Hospitals of Paris.

Today, the question is no longer to know what it is for, but rather to **guarantee all players in the industry** a smooth and seamless implementation in the production, logistics and use processes.



Luc Videau, Technical Director of BIH

PIONEER AND INNOVATIVE PARTNERS

For this, UBI Solutions called on **pioneer and innovative partners**:

The company from the south of France: **FENOTAG** for the design and manufacture of RFID chips

The French linen manufacturer: **TISSUS GISÈLE**

German manufacturer of automatic textile machines: **TEXPA**

DIDIER ELBAZ – PRESIDENT & FOUNDER OF FENOTAG

“UBI Solutions was one of our first French integrator customers. Many of our many references have been developed by mutual agreement. Indeed, the particularity of FENOTAG is to manufacture the tags in France, in Aix-en-Provence. All our robots, the software to control them, are designed, developed and produced in-house. Thus, we can regularly and quickly launch world premieres: Textile Tag with QR Code for "connected masks" from UBI Solutions. But also the smallest textile tag in the world, or specific tags that big manufacturers ask us for their Industry 4.0 projects. Thanks to companies like UBI Solutions, the textile sector has been able to consolidate profitable and sustainable Industry 4.0 projects with a clear vision towards an integration of the production flows of raw materials and linens ”.

One of the many challenges for this French High Tech nugget was to **be able to produce RFID chips** that could be **integrated into the automatic sewing lines of machine manufacturers** such as TEXPA, in Germany. Its CEO, Mr. Graf von Westphalen, relates the cooperative effort:



"TEXPA, as a pioneer in the development of fully automatic systems for the manufacture of home textiles and as a global market leader, has been a partner of TGL for decades. TGL mainly manufactures bedding products for hospitals and nursing home in rental business. TEXPA systems at TGL are equipped with automatic label dispensers which have been modified to handle RFID tags. Of course, other home textiles can also be produced on the sewing and folding systems TEXPA machines. Corresponding dispensing devices for different RFID tags are available for new systems and can be retrofitted to existing systems. "

MR GRAF VON WESTPHALEN

CEO de Texpa

Texpa automated production machines



Automatic tag placement



Looking for pioneer users to **implement this new technology**, UBI Solutions and FENOTAG are teaming up with TISSUS GISÈLE to **integrate this technology on automated production lines** in the Vosges. Xavier Loegel, its Sales Director, confirms:



TISSUS GISÈLE production line



XAVIER LOEGEL - COMMERCIAL DIRECTOR OF TGL

“After observing the Tag technology and market for several years, we decided to equip our machines to continue to be able to manufacture in France. For this, we must be able to place UHF chips on our PLCs. Even if we favor the FENOTAG partner who can meet our technical constraints for presenting tags for our PLCs, we have also exclusively developed an PLC which allows us to install other UHF chip formats.

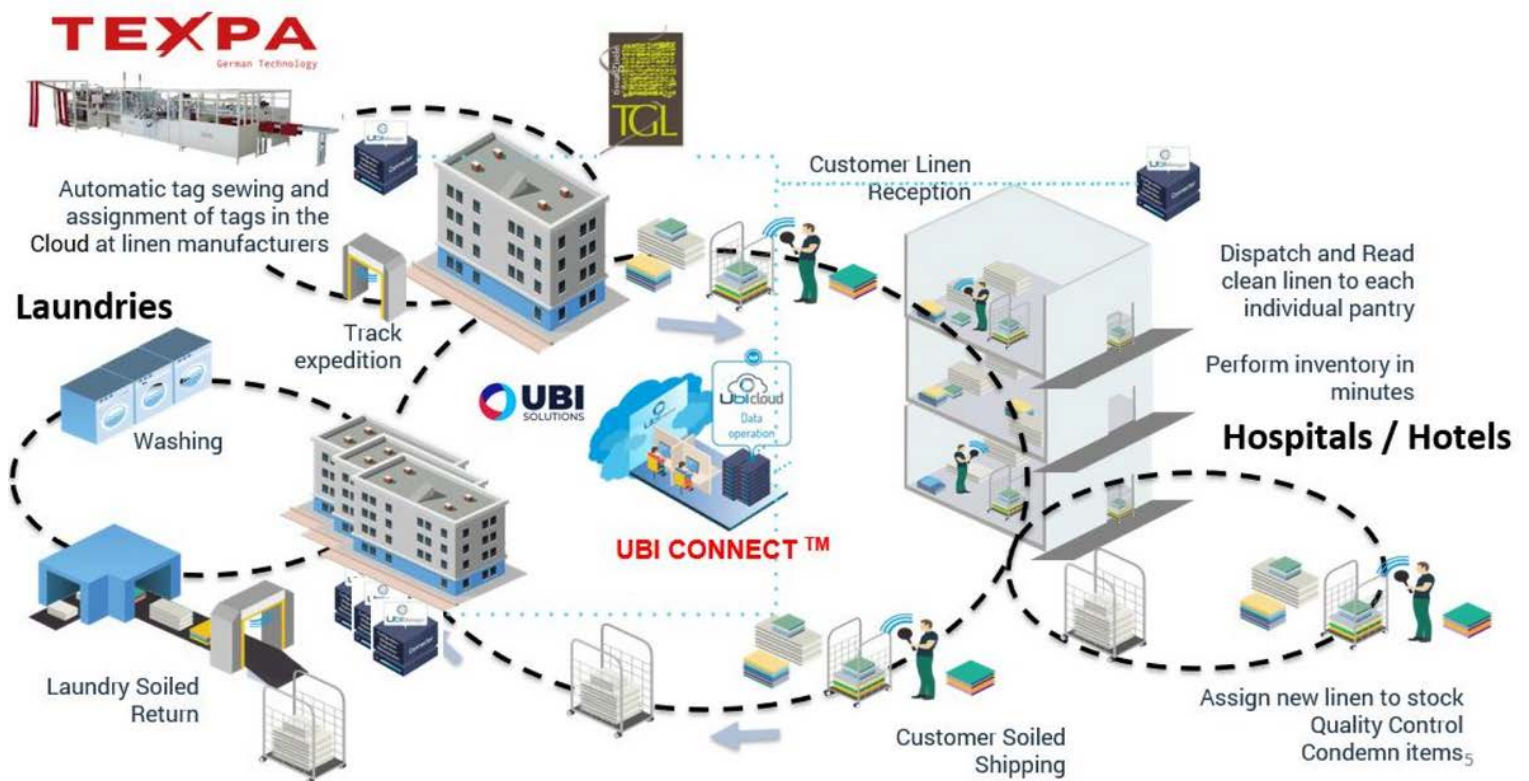
Textiles remain a living material, therefore subject to production fluctuations. The next crucial step, which aims to provide optimum service, is to equip our machines with antennas to ensure that the installation is 100% reliable and thus guarantee our customers an optimum solution. Thus, we continue to support our customers in their developments ”.

UBI SOLUTIONS, THE BENCHMARK IN TEXTILE TRACEABILITY

And UBI Solutions, in all of this, what are they doing? When a textile RFID chip is integrated into a laundry during the production process, it **becomes necessary to register this number of this chip in the various and very varied information systems** of all the actors involved.

In order to take advantage of the follow-up of this laundry from its manufacture to its repeated **use for 150 cycles and more**, UBI Solutions **deploys RFID chip reading systems in any context of linen production, industrial washing and usage in hospitals and hotels**, but also **laundry stock management applications** as well as data sharing between all stakeholders.

UBI Solutions also integrates many other technologies in order to bring to the actors, the **advantages of the technology of connected objects (IoT)**.



UBI CONNECT GUARANTEES THE FOLLOW-UP OF EACH PIECE OF LAUNDRY DURING ITS LIFE AMONG ALL ACTORS IN THE CHAIN.

SMART IOT FOR GREAT BUSINESS



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