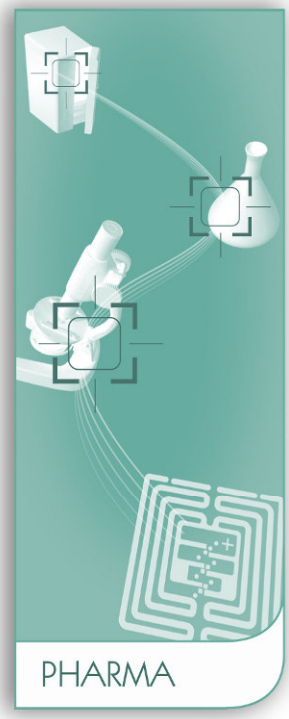

LOGISTICS EVENT

Baxter

Automation of Sample Traceability at BAXTER European R&D Centre IMPLEMENTATION + GAMP Category 5 VALIDATION

Partner: **BAXTER R&D Europe**

Industry: Pharmaceutical

Turnover: EUR 6.8 billion

Employees: 46,500+

Website: www.baxter.com

Application: Sample traceability

Country: Belgium

Technology: HF tag + barcode
Fixed TAGSYS reader
Mobile PSION reader
RFIDEA reading tunnel
RFIDEA management software

Client situation and challenge:

- ⇨ BAXTER R&D EUROPE: around 160,000 samples kept in 15,000 boxes in 1,000 locations. These samples (poaches, etc.) are received and then stored in various climatic chambers used to simulate their ageing;
- ⇨ Around 1,500 samples are removed from the stocks each week and prepared to undergo laboratory stability tests. The samples are destroyed at the end of the cycle;
- ⇨ The BAXTER teams must know the number of samples in the various storage zones as well as the number of samples undergoing analysis and their status at all times;
- ⇨ Before implementation of RFIDEA's solution, these operations were long and tedious. They were also associated with a great risk of human error. For this reason, the capacity for use of the information collected was limited;
- ⇨ "GAMP critical" environment.

Solution:

- ⇨ Preliminary audit by RFIDEA to analyse all parameters (environmental, technological, safety, human, process, etc.) related to the application to identify the technical solution providing the best return on investment;
- ⇨ Implementation of a solution based on mixed identification using both barcodes and the RFID technology (HF);
- ⇨ Creation of RFIDEA's *Samples Identification Management System* (SIMS) based on a client-server IT architecture allowing for viewing and sharing of sample data from and between the "office", "reception", "storage" and "lab" zones with secure identification;

RFIDEA Engineering & Applications in electronic traceability

WSL - Liège Science Park
Rue des Chasseurs Ardennais, 10
B-4031 Angleur – Liège
Belgium

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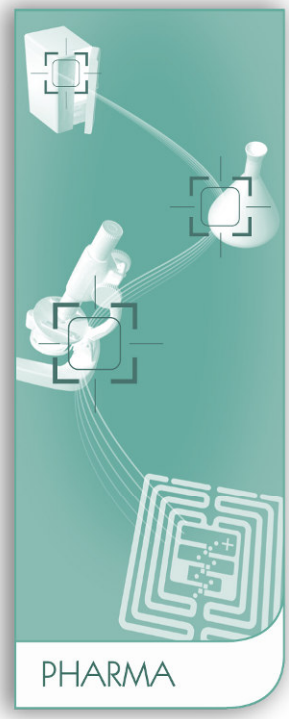
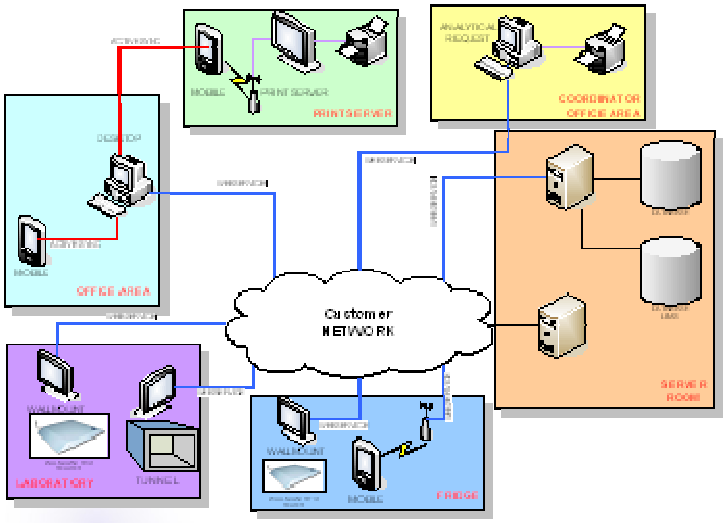


LOGISTICS EVENT

Baxter



- ⇨ Use of mobile readers (supporting both reading of barcodes and HF RFID) and a reading tunnel in the analytical zone for sample reception;
- ⇨ Use of fixed readers connected to the network by Wi-Fi and Ethernet for verification of the reading sequences, selection of actions and error control;
- ⇨ Validation and complete documentation of the final solution based on the recommendations in the GAMP IV guide, category 5 and CFR 21, part 11.

Advantages:

- ⇨ Savings of 1 man day/week through automation of the double check procedure;
- ⇨ Development of new analytical capacity;
- ⇨ Optimisation of annual sample processing capacity with the same teams;
- ⇨ Reduced number of errors;
- ⇨ Automation of administrative procedures, dematerialisation;
- ⇨ Automatic verification of stocks;
- ⇨ Increased security;
- ⇨ Perfect conformity with rules of good practice in force in the sector.

Hardware

HF RFID labels + barcode
Fixed readers
Mobile readers
Reading tunnel

Software

Samples Information Management
RFIDEA system

Database

MS SQL Server

Client testimonial:

"I'd like to thank you for the quality of your work as well as your constant show of honesty and respect throughout our discussions and dealings. Such high-quality communications and open-mindedness are relatively rare in these times. Rest assured that we appreciate it to the fullest extent."

Mario Costalungua, R&D and RA Group Controller Europe, Baxter R&D Europe

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