Container tracking solution

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Geodis
Global logistic provider
Expertise Healthcare
Our RFID approach

Optitrack: container tracking solution

CHU Dijon project
A Global Logistics Provider

- A European player with global ambition (European ranking of international providers: n°4)

- 2005 sales: €3.6 billion (+6.7%)
  - Network covering 120 countries
  - 23,800 employees including 700 engineers and core business experts
Coordination
- Advance consulting and optimisation
- Coordination of operations
- End-to-end flow management

Reverse Logistics
- Pick-up and transport
- Diagnostics - processing
- Container management
- Recycling/recovery services

Groupage
- Urgent groupage
- Express groupage
- Chartering

Air & Sea Freight
- Air freight
- Sea freight
- Customs
- Turnkey projects

Logistics
- Pre-production logistics
- Production logistics
- Post-production logistics
- Value-added services

Full Truck Loads
- Full loads
- Transport on demand
- Specialised transport
- Multimodal

The force of a Global Logistics Provider
In every business, its logistics
Summary

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Optitrack: asset management solution

CHU Dijon project
The added value throughout the supply chain: Flows traceability
A report is sent after the control of the received products

- Use of standard codification EAN 128 for the traceability of batches (receiving, storage, preparation)
- Quarantine products management (automated and physical)
- Returns management
- Control and registration of movements made in warehouses (indissociable pair « reference / lot n°»)
- Automated alert management (released, quarantine, …)
- Orders preparation by radio frequency
- Traceability of orders prepared with a SSCC labeling (serial n° of single pallet)
- Specific labeling of products (green label)
- Loading control with a bar-code reader
- Sending of transport documents via EDI towards the Departure agency
Final Clients

- Delivery to Healthcare professionals (pharmacies, hospitals, medical staff, doctors....)
- Taking account of order instructions
- Our customers and their customers are able to monitor shipments via Internet, agree to a new delivery and contact the Delivery agency
- Express, use of loaded electronic data on the Internet to make available a photograph of the signature and the delivery status 15 mins after delivery
- Visualization of proof of delivery on Internet (photograph of signature and scan of the receipt)
Expertise Healthcare

Major players trust in us

Pharmaceuticals

Personal care

Medical devices

Brands: AstraZeneca, Bristol-Myers Squibb, Roche, sanofi aventis, Boehringer Ingelheim, Pfizer, GSK, GlaxoSmithKline, Servier, TEVA, Vétoquinol, Merial, Depolabo, Expanscience
Expertise Healthcare

Major players trust in us

Pharmaceuticals

Personal care

Medical devices

L'Oréal

Expanscience

Colgate-Palmolive

Unilever

Shiseido

Johnson & Johnson
Expertise Healthcare

The healthcare market @ Geodis

A multi-business offer

Commercial activities

- 470 clients
- 20 agencies
- 240 agencies
- 210 agencies

Sites

- 7 dedicated sites
- 2 non-dedicated sites
- 100,000 sq. m warehousing
- 2 dedicated agencies
- 6,000 dedicated sq. m
- 240 agencies in France
- 20 agencies
- Presence in 120 countries
A multi-business offer

Flow handled / year

- 1.5 million orders
- 30,000 references
- 6 million lines
- 1 million positions
- 80,000 T handled
- 1,000 containers
- 3,000 T handled (air)

Employees implicated

- 250 dedicated operations
- 45 IT people
- 15 engineers
- 20 sales people
- 30 dedicated operations
- 55 IT people
- 5 engineers
- 30 sales people
- 30 IT people
- 20 sales people
Logistics flows

- **Logistics site**
  - St Vulbas (France-Ain)
  - 10,000 sq. m

- **Operations**
  - Reception
  - Packing
  - Cold and ambient orders preparation
  - European distribution
    - Direct to clients (Medical analysis laboratories)

- **Type of products**
  - In vitro diagnosis devices

- **Some figures**
  - 500 references
  - Per year
    - 200,000 order
    - 700,000 order lines
    - 900,000 package
Controlled temperature process

Qualitative control upon reception.
Temperature checking by thermoprobe.

Storage on racks in cold room.
Permanent temperature control.

Shipments with isothermal packing.
Insertion of control probes.
Summary

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Optitr@ck: asset management solution

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Our RFID approach

- Data capture system: RFID
  - Business intelligence (to be pragmatic and use RFID in real life operations)
  - Pilotes with several technologies (since 2001)

- Optitrack: Container tracking solution
  - Application Service Provider solution
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Container tracking solution

Opti-Tr@ck

Draw up statistics
On the whole container fleet

Geographical location in real time of the fleet

Historic of containers, box, tubs

Alerts

Filling/storage/shipping/collection/cleaning/filling/storage/shipping/collection/cleaning...
Container tracking solution

Historic by containers

- All events are automatically incremented during its life cycle
  - Number of cleanings
  - Maintenance (dates, types, quantities operations)
  - Preventive maintenances to do
  - Lavages
  - Stocks entry / shipping

- Identity form of a container implemented at the first start into service
  - GRAI
  - Technical specifications
  - Start date
  - Rental Agreement (number, deadline, notice, conditions, terms, costs...)
  - Purchase date for existing containers
  - ...

- Historic by containers
Container tracking solution

Draw up statistics on the whole container fleet

- **Rotation rates**
- **Immobilization times**
  - global
  - per client
  - per site (cleaning, production, storage…)
- **Average number of events per containers (cleanings…)**
- **On site statistics**
  - Average storage times empty / full
  - Average in quarantine times

⇒ **Allow to determine indicators and objectives**
⇒ Deduction of average costs generated
Linen containers tracking project

**Goal of the project:**
- To develop an asset management solution for linen
- To respect the rules concerning nosocomial infections (to optimise rotation rate and trace disinfection operations)

**Information (identifications) used:**
- GLN
- GRAI
- GIAI (trucks)

**Tracing of operations:**
- Load and Delivery (3 trucks dedicated)
- Disinfection of linen containers

**Container tracking**
- 5 kind of containers
Linen containers tracking project

- Hôpital Général
- Hôpital Bocage E
- Hôpital Bocage W
- Hôpital Champmaillot
- Other sites

- Loading empty rolls
- Delivery
- Loading full rolls

- Washing and disinfecting room
Why this project?

- Using Optitrack system to track containers and trace operations.
- Using the same standard data (GRAI, GLN) valorised in one single asset management solution and independent of the data capture.
- Using another data capture system to test limits of technologies.
- Using mobil data capture system in order to valorise the job of drivers.
RFID is « only » a data capture solution

Each frequency and solution (active or passive tags) has interests and limits

The best in the future would be to have one solution to track and trace containers, patients... in order to optimise cost.
But each cycle (container, food rolls, linen rolls, plastic boxes, patients...) is different.

So instead of waiting for THE universal solution of magic data capture, it is better to try, test and develop further solutions to be ready to do the good choice in the future.

However, if the data capture can’t be standard today, data have to be.