SME LSP implements LIM

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GS1 T&L event Warsaw
LSP van Dalen

Est. in 1997 by Nico van Dalen

- SME located in Nuenen – The Netherlands
- Chilled & frozen
- Specialized in food, bakery & pharmaceutical
- 25 people - 17 trucks
- Benelux network & European transport

Characteristics

- Service
- Quality
- Custom fit
- Flexible
- Reliable
Major client

Top 10 dairy producer

• Van Dalen transport
  – 18 years of partnership

• Not content with their warehousing partner
  – Transfer warehousing to LSP van Dalen

Changes in the supply chain

• new ERP
  – New processes for business
  – 1st May 2015

• EDI interface with LSP
  – 10 transactions
  – 6 EDIFACT messages:
    • DESADV, RECADV, INVRPT, INSDES, OSTRTP, PRICAT
  – Logistic label with barcodes

11 Nov. 2014
Business case

Considerations

• Scaling up van Dalen
  – Increase of transport services
  – Initiation of new warehousing services

• Efficient work processes EDI
  – Speed up transport & warehousing processes
  – Reduce data entry and errors

Costs & risks

• Costs
  – Migrate transport order: CSV -> EDI
  – New warehouse processes: partner
  – New functionalities: scanning
  – EDI infrastructure & project manager

• Risks
  – Available resources
  – Deadline at May 1st 2015
  – Effect on contact with client
  – Implementation of new WMS
EDI & logistic label

Criteria Van Dalen

- Deployable for multi customers
- Applicable for food logistics
- Open standard EDI & label
- Future proof
- XML preference

GS1 standard

- Proven in logistics & food
- Standard Internat. Logistic Label
  - GS1-128
  - Application identifiers
- Logistic Interoperability Model
  - Business processes and data communications interchanges
    - warehousing & transport scenarios
  - Definitions in GDD
  - XML messages with examples
  - Transparent & interoperable
Project EDI

Objective

• Implement EDI transactions for warehousing & transport

Scope

• Design EDI & process as defined by Friesland Campina

• LSP information flows for warehousing
  – Extended: pick transport data from warehousing message

Deliverables

• Development of an EDI architecture

• Test EDI messages

• Rules and procedures

• EDI implementation for warehousing & transport
EDI transactions for master data – inbound - inventory

**Article master data**
1. Modify product catalogue

**Inbound WMS**
1. Data inbound delivery
   Concept inbound
2. Unload truck: scan SSCCs of pallets
   Increase of stock
   Final inbound
3. Confirm goods receipt

**Inventory WMS**
1. Stock report (02.00 h)
2. Stock corrections
3. Status change instruction (batch)
EDI transactions for outbound & transport
Used GS1 standards

**GS1-XML messages**
- Item Data Notification
- WH Inbound Instruction
- WH Inbound Notification
- Inventory Report
  - Status
  - Goods movement
- Inventory Report Request
- WH Outbound instruction
- WH Outbound notification

**GS1 keys**
- GTIN for products
- GLN for locations & parties
- GRAI for returnables (RTI)
- SSCC for unit loads
- Application Identifiers in GS1-128
Challenges

• New technology for Van Dalen:
  – No EDI knowledge or infrastructure
  – No scanning
• Batch management
• Occasionally no (GS1) labels on pallets
• Goods arrive before EDI message
• Master data issues
• Incomplete inbound instruction

• Non standardised data attributes
  – Logistic Handling Codes:
    • unrestricted-limited-blocked-quality
  – Mash up UoM & package types (bag, case)
  – GTIN allocation rules vs. article no.
  – Define RTI
Why GS1?

- Implementation in stages possible
- GS1-XML 3.0 released December 2014
  - Logical defined processes
  - GS1 definitions help defining efficient process and clearing misunderstandings in internal & external discussions
  - Code lists
- Transaction messages readable for co-workers
- Support from GS1
Lessons learned

- Work together & share knowledge
  - In the supply chain & cross companies
- Align article master data
- Avoid mistaking Business Process issues as ICT issues
- Communicate, but draft a communication protocol
  - Who communicates when about what and with whom
Recommendations

• For large enterprises
  – Use LIM already for blueprint discussions
  – Adopt GS1 terminology
  – Explain in MIG how the transactions are done
    • what data is mandatory or optional
      – If optional define a business rule when to use
    • Avoid free text attributes
  – EDI is a business project
    • With some ICT components

• Suggestion for GS1
  – Extend examples with scenarios of GS1-XML message
Questions?

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