Delivering innovation that **matters to you**

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innovation + you

PHILIPS

Royal Philips

Est. **1891**

Headquarters in
Amsterdam, Netherlands

113,000+

Employees worldwide
in 100+ countries

€ 23.3 billion

Sales in 2013
Portfolio ~70% business-to-business

$ 9.8 billion

Brand value in 2013

* Based on sales over last 12 months June 2014 (excluding Central sector, IG&S)

PHILIPS

We hold unique leadership positions globally

Healthcare

Cardiovascular X-ray

Patient monitoring

Image-guided interventions

Sleep therapy systems

Ultrasound

Consumer Lifestyle

Male electric shaving

Electric hair care

Rechargeable toothbrushes

Mother & child care

Kitchen appliances

Lighting

Lamps

LED Lamps

Automotive lighting

Professional luminaires

High-performance LED

[1] Global or Regional #1 or #2 position in the market

Creating the future of health care and saving lives

Leveraging deep consumer insights and smart technology

PHILIPS

Making the world
healthier and
more sustainable

Philips & Logistics

- Concentrate on core processes not on logistics
- Mainly outsourced logistics
  - Warehouse activity
  - Transport management
  - Freight Audit
  - Carriers
- Hundreds of logistical interfaces (legacy) (almost all white countries)
- 1 set of interfaces using GS1 XML 2.x (>20 LSP)
- 1 set of interfaces using GS1 XML 3.1 (New) (3 LSP)

Philips Greenfield

- Start from scratch due to many (21), SAP (ERP) systems highly customized, outdated systems….
- Back to “standard”
- 1 system for Health Care, Lighting and Consumer Lifestyle with standardized processes and standard Interfaces to support them

Philips Greenfield

- Create 1 set of interfaces to support the logistic processes for ALL sectors (Health Care, Lighting, Consumer Lifestyle) based on the latest version of GS1 XML messages and using the newly created GS1 XML warehouse Messages (3.1)
- Improve the inbound goods process (use there were possible SSCC)
- Remain to Include GS1 XML / GS1 keys / Label (new) in the contract negotiations with logistic service providers (knock-out since 2012)

Inbound Goods Flow - Basic Setup

Inbound Goods Flow - Extended Setup

Outbound Goods Flow - Basic Setup

Outbound Goods Flow - Extended Setup

Can we support this complex scenario using GS1 XML messages?

1 Material for all plants	GS1 ItemDataNotification 3.1 (pref 3.2)
2 Material for relevant plant	GS1 ItemDataNotification 3.1 (pref 3.2)
3 Sales order	GS1 WarehouseOutboundInstruction
4 Negotiated Delivery Date	GS1 WarehouseOutboundNotification
5 High Level Capacity Plan	GS1 TransportCapacityBooking
6 Confirmed Capacity	GS1 TransportCapacityResponse
7 Planned Shipment	GS1 WarehouseOutboundNotification
8 Delivery	GS1 WarehouseOutboundInstruction
9 Pick Request	GS1 WarehouseOutboundInstruction
10 Load Plan	to be checked with GS1 (Transport instruction?)
11 Shipment	GS1 WarehouseOutboundNotification
12 Create Shipment	GS1 WarehouseOutboundNotification
13 Shipment	GS1 TransportInstruction
14 Transport Confirmation	GS1 TransportInstructionResponse
15 Shipment and Charges	GS1 invoice ‘transport costs pro forma (3.2)
16 Track and Trace	GS1 TransportStatusNotification
17 Proof of Delivery	GS1 TransportStatusNotification
18 Shipment and Charges	GS1 invoice ‘transport costs pro forma (3.2)
19 Freight Settlement	GS1 invoice ‘transport costs pro forma (3.2)
20 Self Billing	GS1 Invoice

What is being tested/implemented?

7 interfaces all using gs1 xml

- Material Master (ItemDataNotification 3.1)
- Inbound Delivery (ASN)
  (WarehousingInboundInstruction 3.1)
- Goods Received
  (WarehousingInboundNotification 3.1)
- Outbound Delivery
  (WarehousingOutboundInstruction 3.1)
- Product Packed
  (WarehousingOutboundNotification 3.1)
- Goods Movements
  (LogisticsInventoryReport 3.1)
- Stock Comparison
  (LogisticsInventoryReport 3.1)

What issues did we encounter?

- Material Master:
  - GSDN: too complex, costs, very large number of materials (spare parts)
  - GS1 XML ItemdataNotification 3.1 covers 80 % of requirements version 3.2 covers 100% (available end of 2014)
- Other interfaces
  - No issues at all

Conclusion

- GS1 XML Warehouse Messages 3.1 are fully able to support the very complex logistic processes and the multiple sectors at Philips
- Transport planning and execution messages have already been used by DHL & others, so we expect no or few issues when starting to use them
- ThermoFisher is also implementing the set of warehouse interfaces (GS1 XML 3.1); no issues;

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- ….