T&L within GS1

Marseille, 5th November 2015
GS1 – in 150 countries

- 113 countries with own MO
- 37 countries supported by GO
GS1 Standards to IDENTIFY

- **Global Trade Item Number (GTIN)**: Products and services
  - Can of soup, chocolate bar, music album
- **Global Location Number (GLN)**: Parties and locations
  - Companies, warehouses, factories, stores
- **Serial Shipping Container Code (SSCC)**: Logistics units
  - Unit loads on pallets, roll cages, parcels
- **Global Returnable Asset Identifier (GRAI)**: Returnable assets
  - Pallet cases, crates, totes
- **Global Individual Asset Identifier (GIAI)**: Assets
  - Medical, manufacturing, transport and IT equipment
- **Global Service Relation Number (GSRN)**: Service provider and recipient relationships
  - Loyalty scheme members, doctors at a hospital, library members
- **Global Document Type Identifier (GDTI)**: Documents
  - Tax demands, shipment forms, driving licences
- **Global Identification Number for Consignment (GINC)**: Consignments
  - Logistics units transported together in an ocean container
- **Global Shipment Identification Number (GSIN)**: Shipments
  - Logistics units delivered to a customer together
- **Global Coupon Number (GCN)**: Coupons
  - Digital coupons
- **Component/Part Identifier (CPID)**: Components and parts
  - Automobile parts
# GS1 Standards to CAPTURE (Barcodes)

<table>
<thead>
<tr>
<th>GS1 Standard</th>
<th>Description</th>
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| EAN-13       | Symbol ID: JE0  
  Capacity: 13 numeric  
  Omnidirectional  
  Supports GTIN-13  
  Does not support attributes |
| GS1-128      | (01) 0 9501101 530003 3 (17) 140704 (10) AB-123 |
| GS1 DataMatrix | ![GS1 DataMatrix QR Code] |
GS1 Standards to CAPTURE (EPC/RFID)
GS1 Standards to SHARE

EDI (Transaction Data)

EDI XML
EANCOM >

Product Data Sharing (Master Data)

Global Data Synchronisation Network (GDSN) >
GS1 Source >
Global Product Classification (GPC) >
GTIN+ on the web >

Visibility Event Data

EPCIS and Core Business Vocabulary (CBV) >

Network

ONS >
GEPIR >
Certificate Profile >
Which industries are supported by GS1?

- Retail
  Read more >

- Healthcare
  Read more >

- Transport & Logistics
  Read more >

- Foodservice
  Read more >
GS1 is offering standards in 5 business processes

- Delivery management
- Transport management
- Warehouse management
- Asset management
- Border procedure management
Delivery management

Standards used in shipping and receiving

- GS1 Identification Keys in Transport & Logistics Guideline
- GS1 Logistics Label Guideline
- Delivery Management Flyer
Delivery Management – SSCC - Sender

SSCC and information about products on pallet

SSCC logistics label

database

EDI (DESADV)

SSCC and information about products on pallet

Zusammen Werte schaffen
Delivery Management – SSCC - Receiver

EDI (DESADV) → database

Comparing SSCC with DESADV

Zusammen Werte schaffen
Transport management

LIM  Logistics Interoperability Model (LIM)

GS1 XML Transport Instruction and Response Implementation Guide

GS1 EANCOM Transport Instruction and Response Implementation Guide
Warehouse management

Trade Item Implementation Guideline (TIIG) for Transportation and Logistics
Asset management

Reusable Transport Items (RTI) within GS1 EANCOM
Border procedure management

GS1 Standards - Key in Border Procedure Management
Main projects
Track and Trace Tobacco for customs

Tobacco industry, customs and GS1 implemented T&T for tobacco to avoid illicit trade.

Used GS1 Standards: RFID / epcGLOBAL
As Bill Johnson (Agriculture) mentioned:
CITES are using standards from CEFACT

&

ID-Keys from GS1

Used GS1 Standards: ?? / epcGLOBAL
Swedish railway-wagons are equipped with RFID tags. Readers are installed along the tracks. On the EPCglobal network wagons can be traced.

Used GS1 Standards: RFID / EPCglobal
Swedish Transport gets on track with EPCglobal from GS1

New GS1 application standard for visibility in rail

18 May 2015

The new GS1 application standards for visibility in rail provides a roadmap for rail stakeholders to gain visibility of rolling stock and access to real-time information.

We are delighted to announce the publication of the new GS1 application standard, EPCIS for Rail Vehicle Visibility.

- Download the standard
- More information about the standard
- Find out more about GS1 Transport & Logistics
UNHCR will use GS1 standards in their Supply Chain
USA: Visibility and traceability on imported products improved

In the U.S., GS1 US™ has established a strong collaboration with the ITDS participating government agencies and the U.S. Customs Service to facilitate cross-border trade via GS1 Standards.

Used GS1 Standards: GPC, GTIN, GDSN
Germany: The Textile Supply Chain with GS1 Standards

Gerry Webber implemented EPC/RFID to optimise logistics procedures.

Used GS1 Standards: epcGLOBAL
Belgium: GS1 Standards in Belgian Post

Belgian Post is using GS1-128 barcode for registered mails containing AI(01) with GTIN for “National registered mail” and AI(21) serial number.

Used GS1 Standards: GS1 Keys, GS1-128
Colombia: Efficiencies project with 30 companies

GS1 Columbia implemented an integrated traceability platform that uses GPS, mobile PC’s and EPC/RFID for position of vehicles. Data are shared with 30 companies, such as Carrefour, Falabella, Exito, Samsung, LG, Transportation enterprises.

Used GS1 Standards: epcGLOBAL
Many more projects on local level

- 113 countries with own MO
- 37 countries supported by GO
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