

Specific standards in business-to-business and business-to-consumer context

Use-Case based, example based (e.g. Traceability, Quality Assurance, Automation, ...)

Niklas Kuhnert, Consultant, GS1 Germany
2021-07-19



Usecase Point of sale (POS)

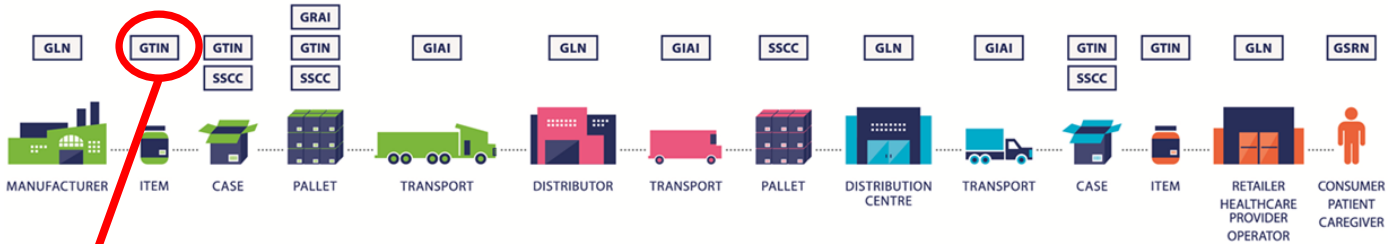


Point of sale (POS) - Standards



IDENTIFY: GS1 Standards for Identification

GLN Global Location Number **GTIN** Global Trade Item Number **SSCC** Serial Shipping Container Code **GRAI** Global Returnable Asset Identifier **GIAI** Global Individual Asset Identifier **GSRN** Global Service Relation Number



CAPTURE: GS1 Standards for Barcodes & EPC/RFID

GS1 BARCODES

EAN/UPC



GS1-128



ITF-14



GS1 DataBar



GS1 DataMatrix



GS1 QR Code



GS1 Composite Barcode



GS1 EPC/RFID

EPC HF Gen 2



EPC UHF Gen 2



SHARE: GS1 Standards for Data Exchange

MASTER DATA Global Data Synchronisation Network (GDSN) **TRANSACTIONAL DATA** eCom (EDI) **Event Data** EPC Information Services (EPCIS)



ITEM MASTER DATA

LOCATION DATA

ITEM/SHIPMENT TRACKING

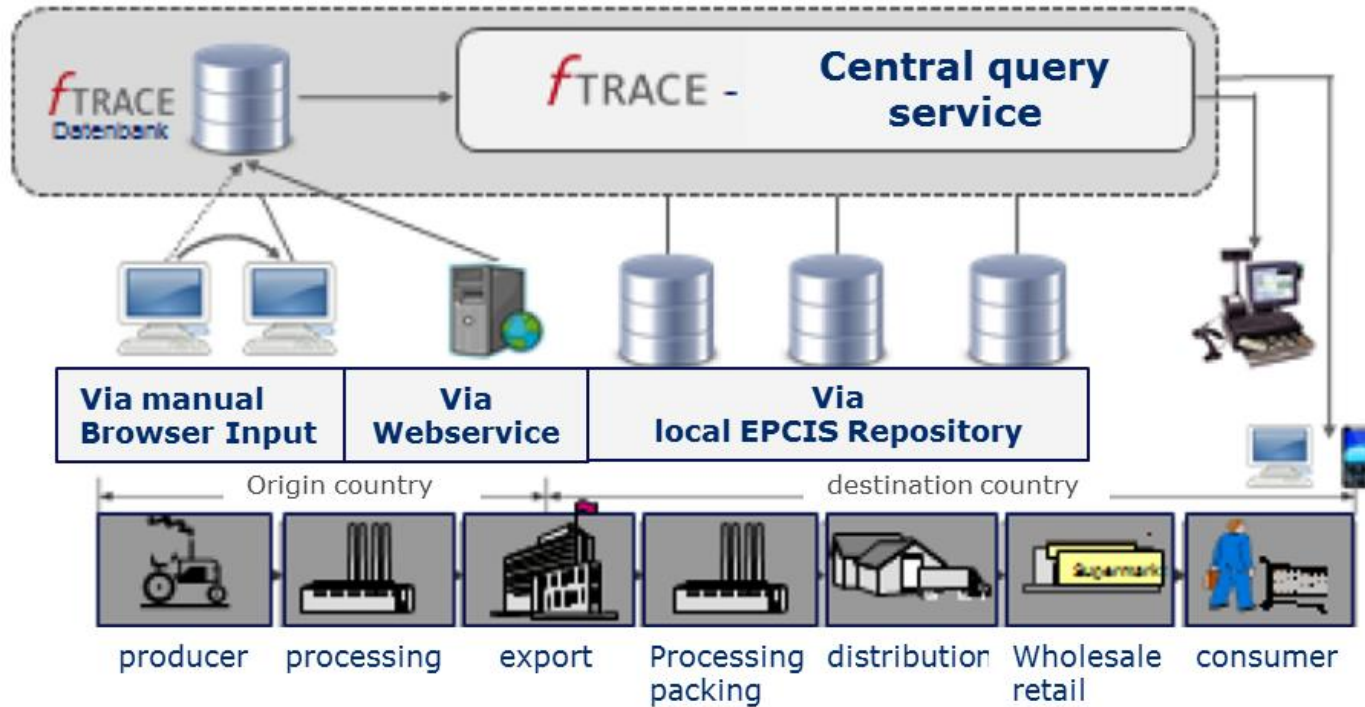
TRACEABILITY

PRODUCT RECALL/WITHDRAWAL

PEDIGREE

PURCHASE ORDER/DESPATCH ADVICE/INVOICE

Usecase Traceability Freshfood

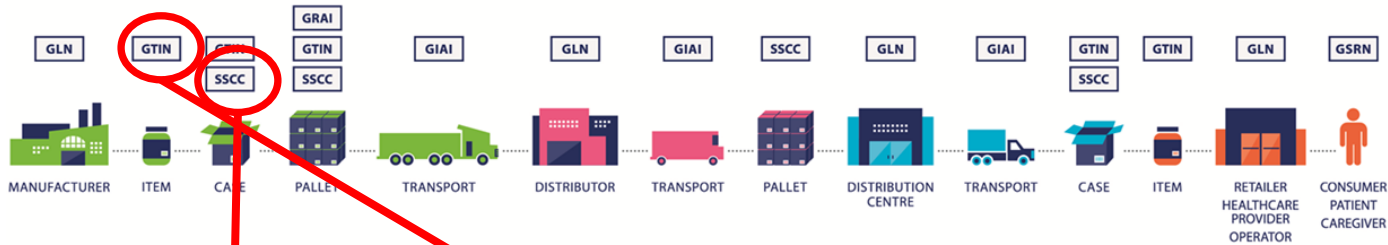


Traceability Freshfood - Standards



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EAN/UPC



9 501101 021037

GS1-128



(00) 3 9501100 000001001 9

ITF-14



00001000000000

GS1 DataBar



(01) 0 9501101 02103 7

GS1 DataMatrix



GS1 QR Code



GS1 Composite Barcode



9501100000000

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Usecase Track&Trace of Transport Units



The GS1 Transport Label



**Identification&Capturing
for Transport Units**
(e.g. Boxes, Palettes,...)

**Accurate & lossless transmission of
transport data**
between all involved parties of the supply
chain

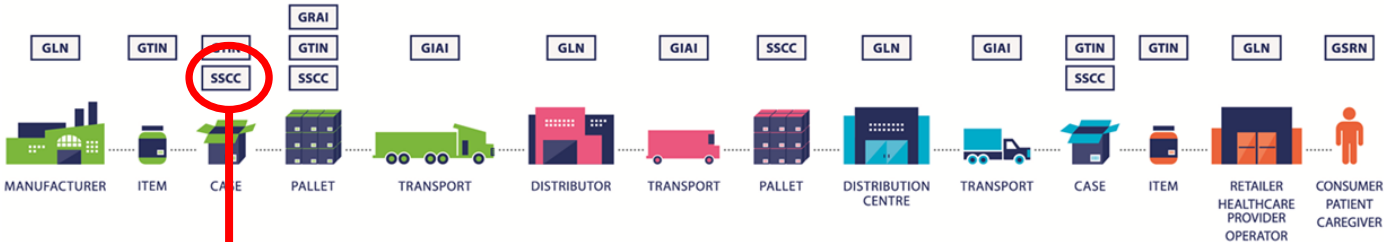
Logistic, Tracking & Tracing

Track&Trace of Transport Units - Standards



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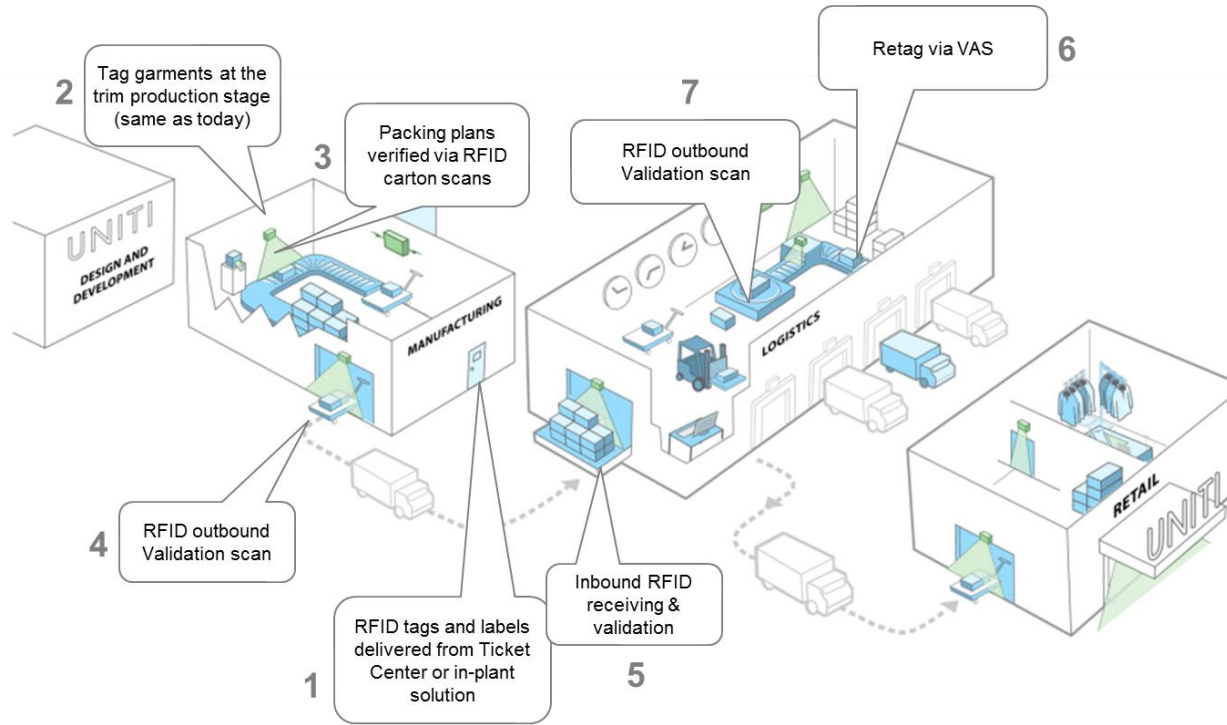
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Usecase RFID in Apparel

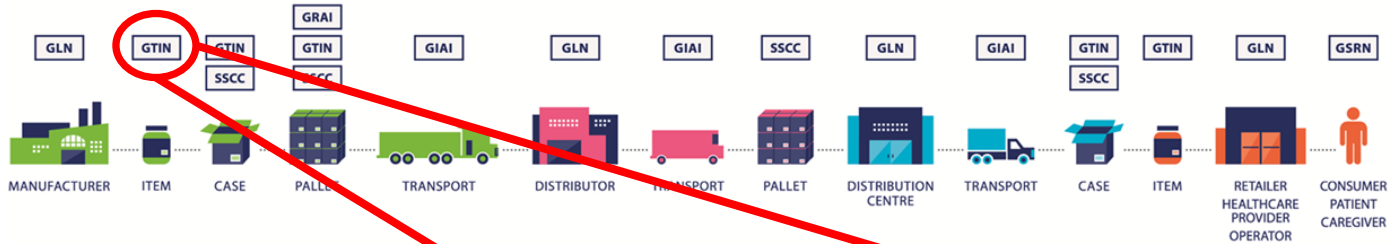


RFID in Apparel - Standards



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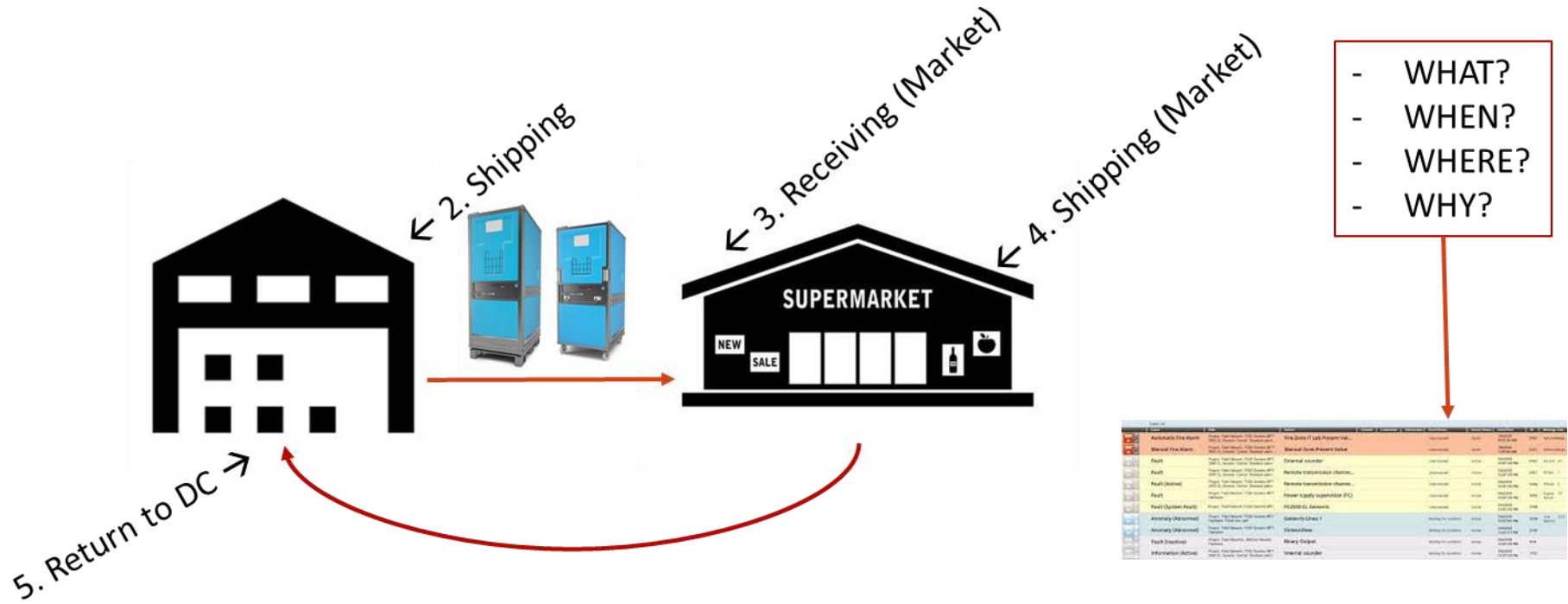
TRANSACTIONAL DATA Com (EDI)

Event Data EPC Information Services (EPCIS)

INTEROPERABILITY



Usecase Asset Management



Asset Management - Standards



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Usecase Standardized transport assets



Standardized transport assets - Standards



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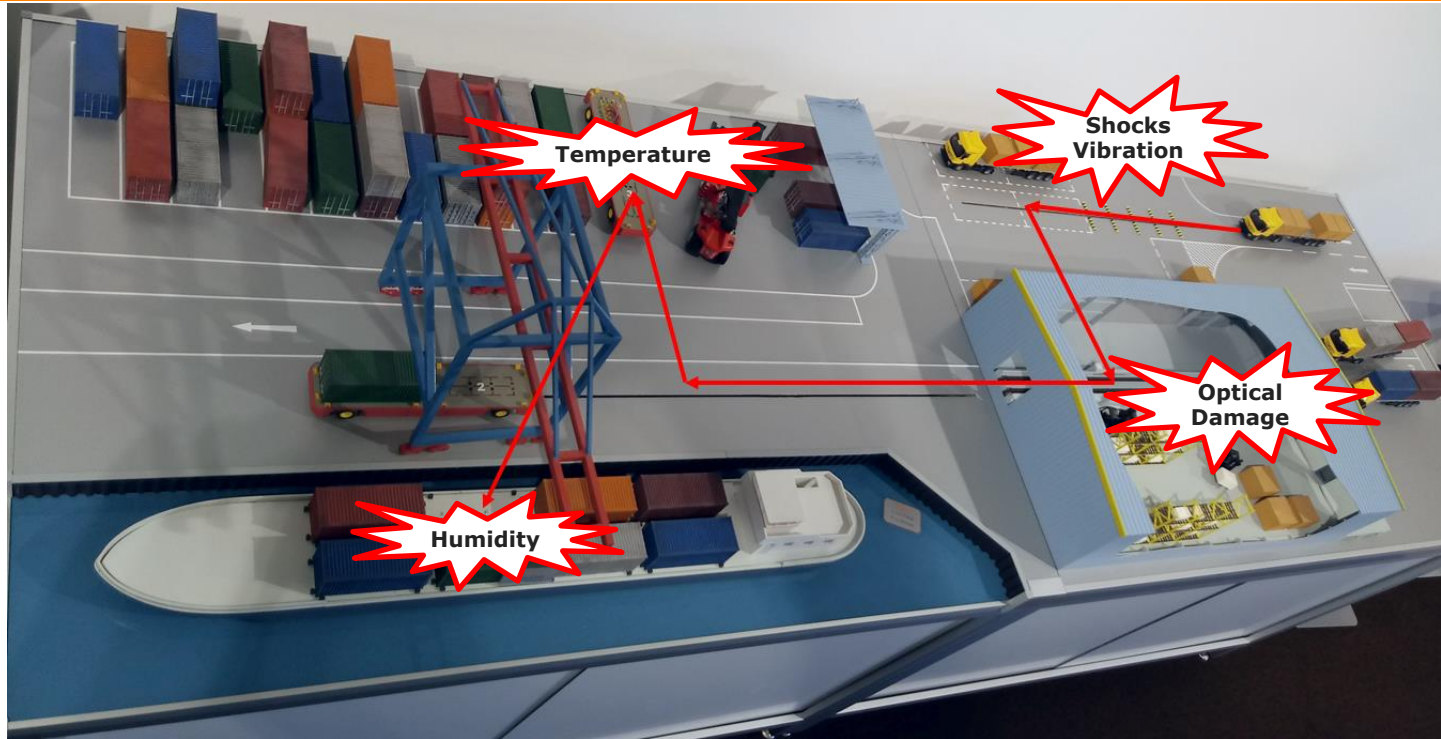
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Usecase IoT Applications in Logistics

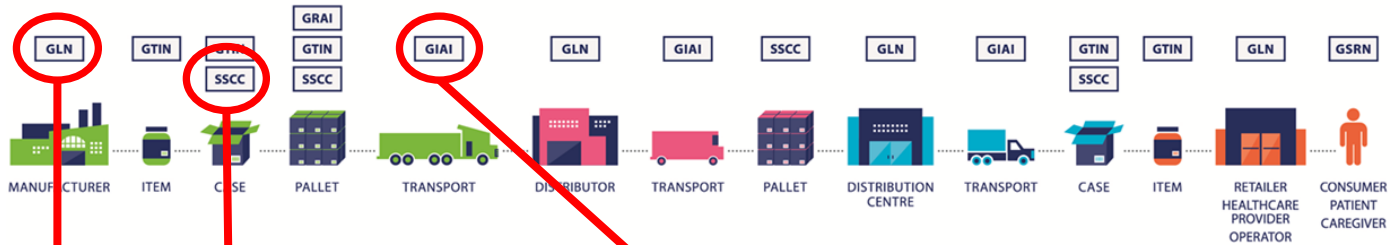


IoT Applications in Logistics - Standards



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