Today's Presenters

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Today's Attendees

- Brand Owners/Manufacturers

- Global Fund and their procurement agent IDA Foundation

- USAID and their procurement agent GHSC-PSM

- Country Member Organizations

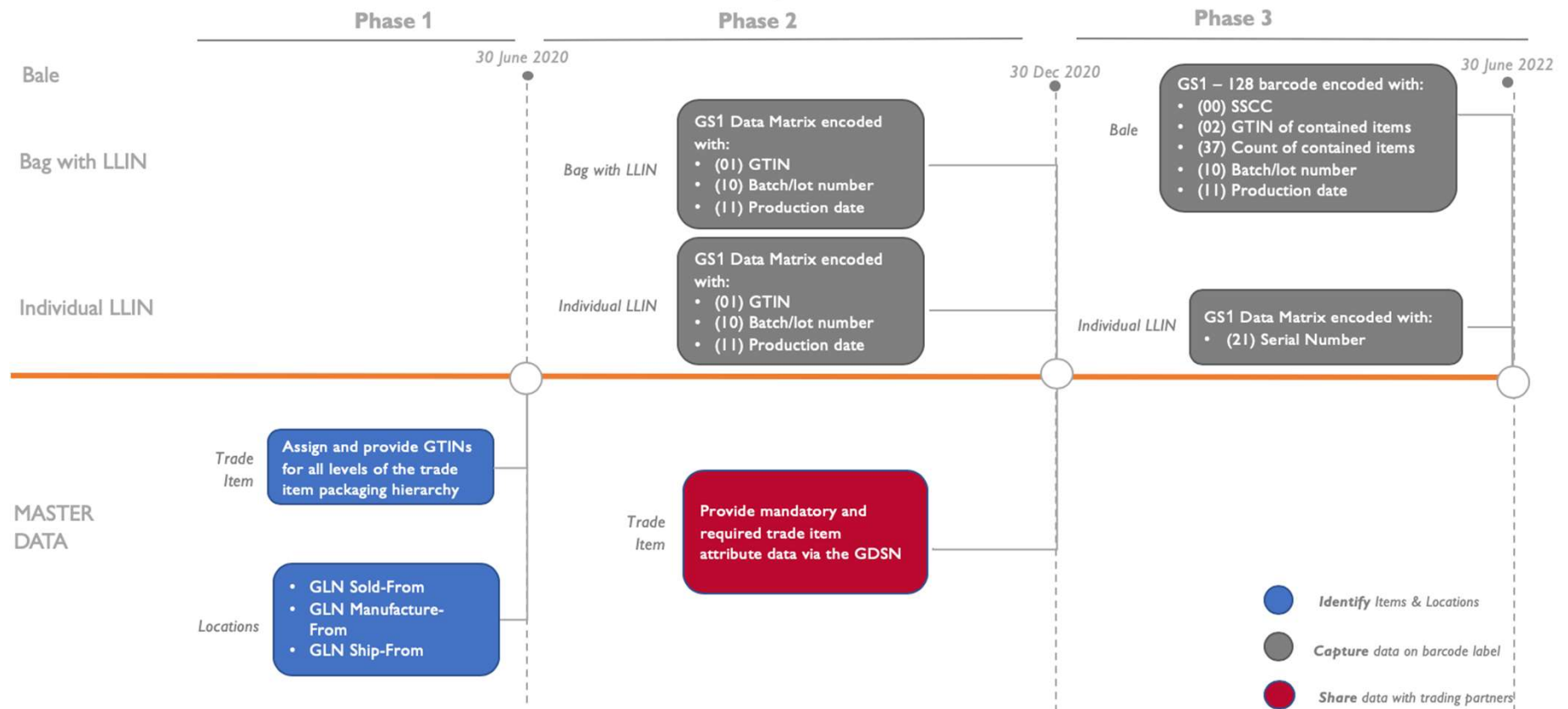# Agenda

○ — Review the Standardization Roadmap for LLINs

○ — Identify Phase Overview

○ — Registering with GS1

○ — Identify: Global Location Numbers

○ — Identify: Global Trade Item Numbers

○ — Questions, Upcoming Webinars, Contact Information

Overview of the Standardization Roadmap for LLINs

	Phase 1	Phase 2	Phase 3

Bale — 30 June 2020 | 30 Dec 2020 | 30 June 2022

Bag with LLIN

Bag with LLIN — GS1 Data Matrix encoded with:
- (01) GTIN
- (10) Batch/lot number
- (11) Production date

Bale — GS1 – 128 barcode encoded with:
- (00) SSCC
- (02) GTIN of contained items
- (37) Count of contained items
- (10) Batch/lot number
- (11) Production date

Individual LLIN

Individual LLIN — GS1 Data Matrix encoded with:
- (01) GTIN
- (10) Batch/lot number
- (11) Production date

Individual LLIN — GS1 Data Matrix encoded with:
- (21) Serial Number

MASTER DATA

Trade Item — Assign and provide GTINs for all levels of the trade item packaging hierarchy

Trade Item — Provide mandatory and required trade item attribute data via the GDSN

Locations
- GLN Sold-From
- GLN Manufacture-From
- GLN Ship-From

Legend:
- (blue) **Identify** Items & Locations
- (grey) **Capture** data on barcode label
- (red) **Share** data with trading partners

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Phase 1 – Identification

Identify

GS1 Standards for Identification

Company & Location
- Global Location Number (GLN)

Product
- Global Trade Item Number (GTIN)
- Serialised Global Trade Item Number (SGTIN)

Logistics & Shipping
- Serial Shipping Container Code (SSCC)
- Global Shipment Identification Number (GSIN)
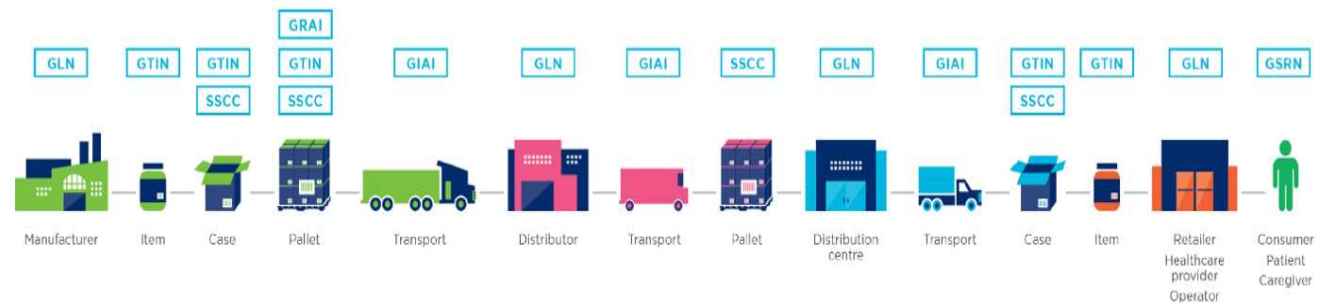- Global Identification Number for Consignment (GINC)

Assets
- Global Individual Asset Identifier (GIAI)
- Global Returnable Asset Identifier (GRAI)

Services & More
- Global Service Relation Number (GSRN)
- Global Document Type Identifier (GDTI)
- Global Coupon Number (GCN)

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

GLN	GTIN	GTIN	GRAI / GTIN / SSCC	GIAI	GLN	GIAI	SSCC	GLN	GIAI	GTIN / SSCC	GTIN	GLN	GSRN
Manufacturer	Item	Case	Pallet	Transport	Distributor	Transport	Pallet	Distribution centre	Transport	Case	Item	Retailer Healthcare provider Operator	Consumer Patient Caregiver

Phase 1 – Why Identify?

- ID keys enable the assignment of standard identifiers to products, physical locations and more, improving visibility of the supply chain

- Unique identification ensures important information is accessible, accurate and easy to understand. It also enables standard communication with trading partners

- Reduction of manual administration, duplication & errors (one truth)

- Identification enables the next 2 phases: capture & share

GS1 is a global standards organisation – the common language of business

Neutral and not-for-profit

User-driven and governed

Global and local

Inclusive and collaborative

GS1 around the world

Hover over the dots to see the **country names**

Click on the preferred dot to **go directly to the country website**

Click here for a full list of GS1 Member Organisations

How to register with GS1

Where is your company located?
Where in the world do you need assistance?
What do you need to identify? Location, products etc. ?

One of the 114 GS1 organisations

What is a Global Location Number (GLN)

The **Global Location Number** is designed to improve the efficiency of communication with trading partners and add value to the trading partners involved.

GLNs can be used to identify a:

- Legal entity
- Function
- Physical location
- Digital location

Anatomy of a GLN

A GLN has a 13-digit numeric structure

Assigned by GS1 Global Office	Assigned by GS1 Member Organisation	Assigned by Location Owner	Calculated

P P P C C C C L L L L L C

P = GS1 MO Prefix

C = GS1 Company code

L = Location Reference

C = Check Digit

GS1 Company Prefix
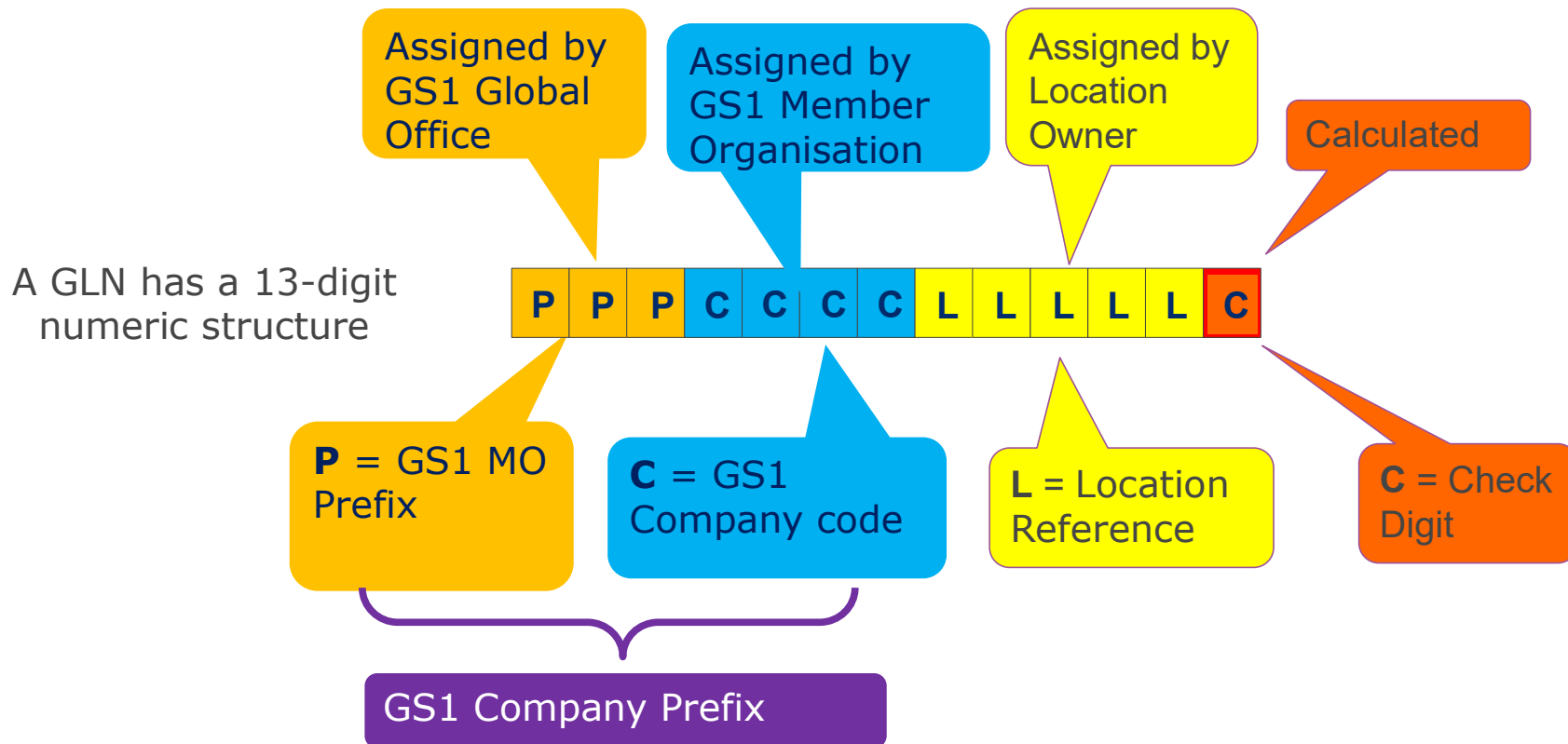
GLN – Legal entity

A legal entity is any business, government body, department, charity, individual or institution that has standing in the eyes of the law and has the capacity to enter into agreements or contracts.

Identification of legal entities

Legal Entity - Netherlands — GLN A

Legal Entity - France — GLN B
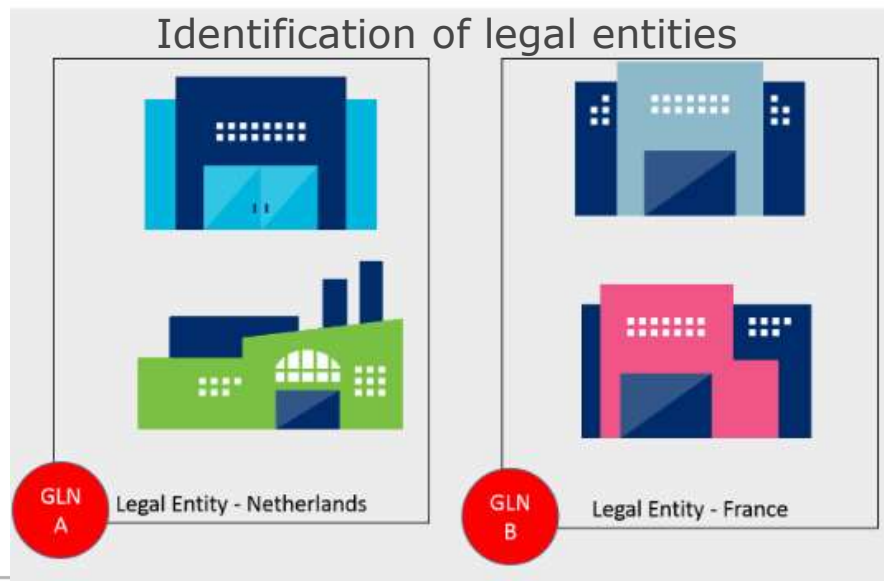
GLN - function

A function is an organisational subdivision or department based on the specific tasks being performed, as defined by the organisation.

Identification of a new function

GLN – Physical location

A physical location is a site (an area, a structure or group of structures) or an area within a site where something was, is or will be located.
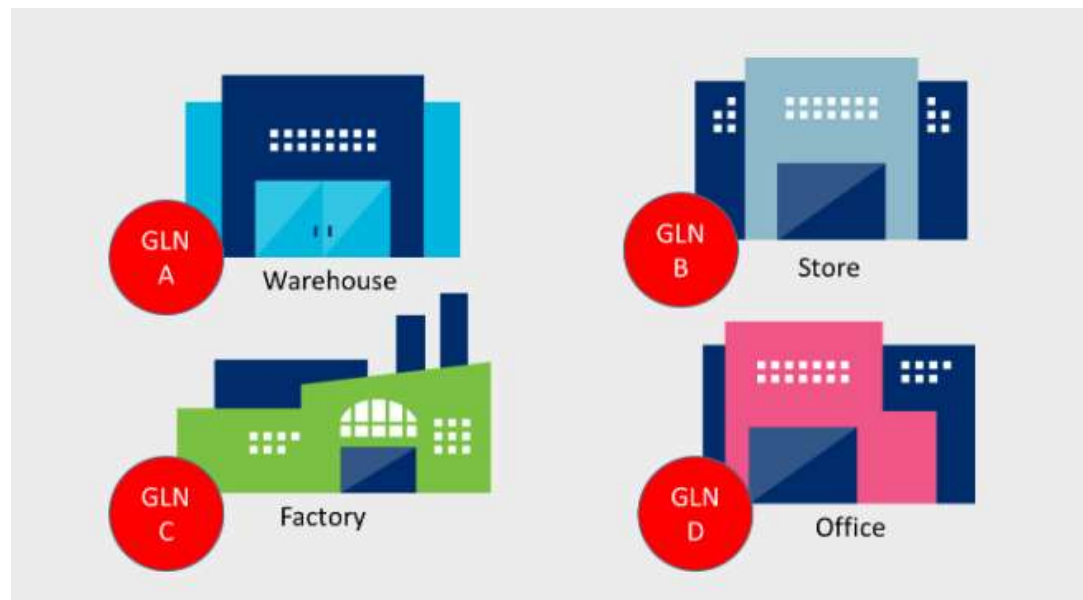
GLN – Digital location

A digital location represents an electronic (non-physical) address that is used for communication between computer systems.
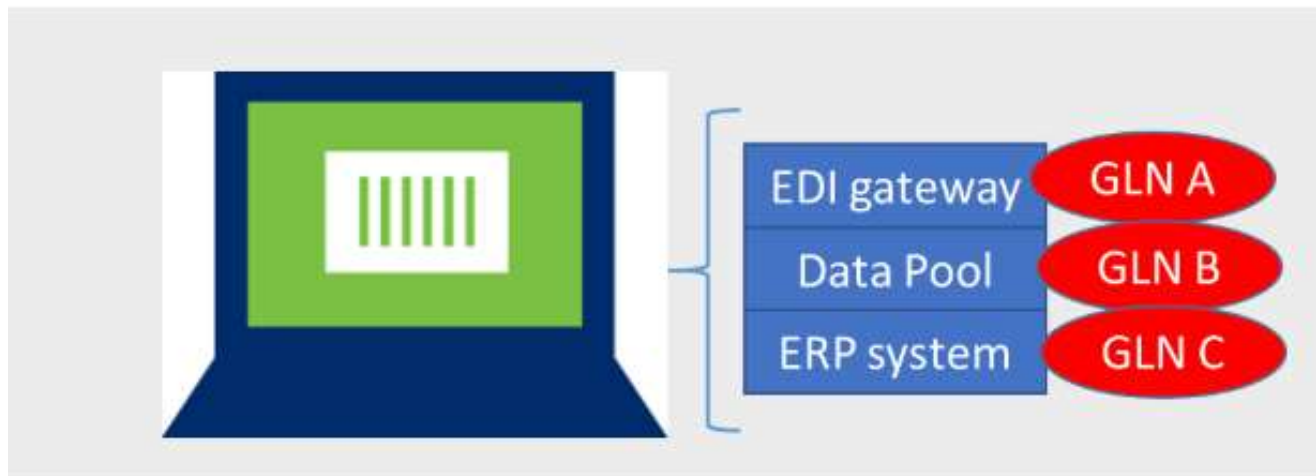
GLN Illustration

Scenario 1: Ship, Manufacture and Contract in 1 Place = 1 GLN

GLN 1

Ship and Manufacture from 1 location

Scenario 2: Company has an HQ, Multiple Manufacturing locations and/or Ship from different Warehouse = Multiple GLNs

GLN 1

Invoice from

GLN 2

Manufacture from

GLN 3

Ship from

Anatomy of a GTIN-14 – the use of an indicator digit

Assigned by GS1 Global Office

Assigned by GS1 Denmark

Assigned by Brand Owner

Calculated

Assigned by Brand Owner

| I | 5 | 7 | 0 | C | C | C | C | P | P | P | P | P | C |

I = Indicator

P = Item Number

570 = GS1 Country code for Denmark

C = GS1 Company code

C = Check Digit
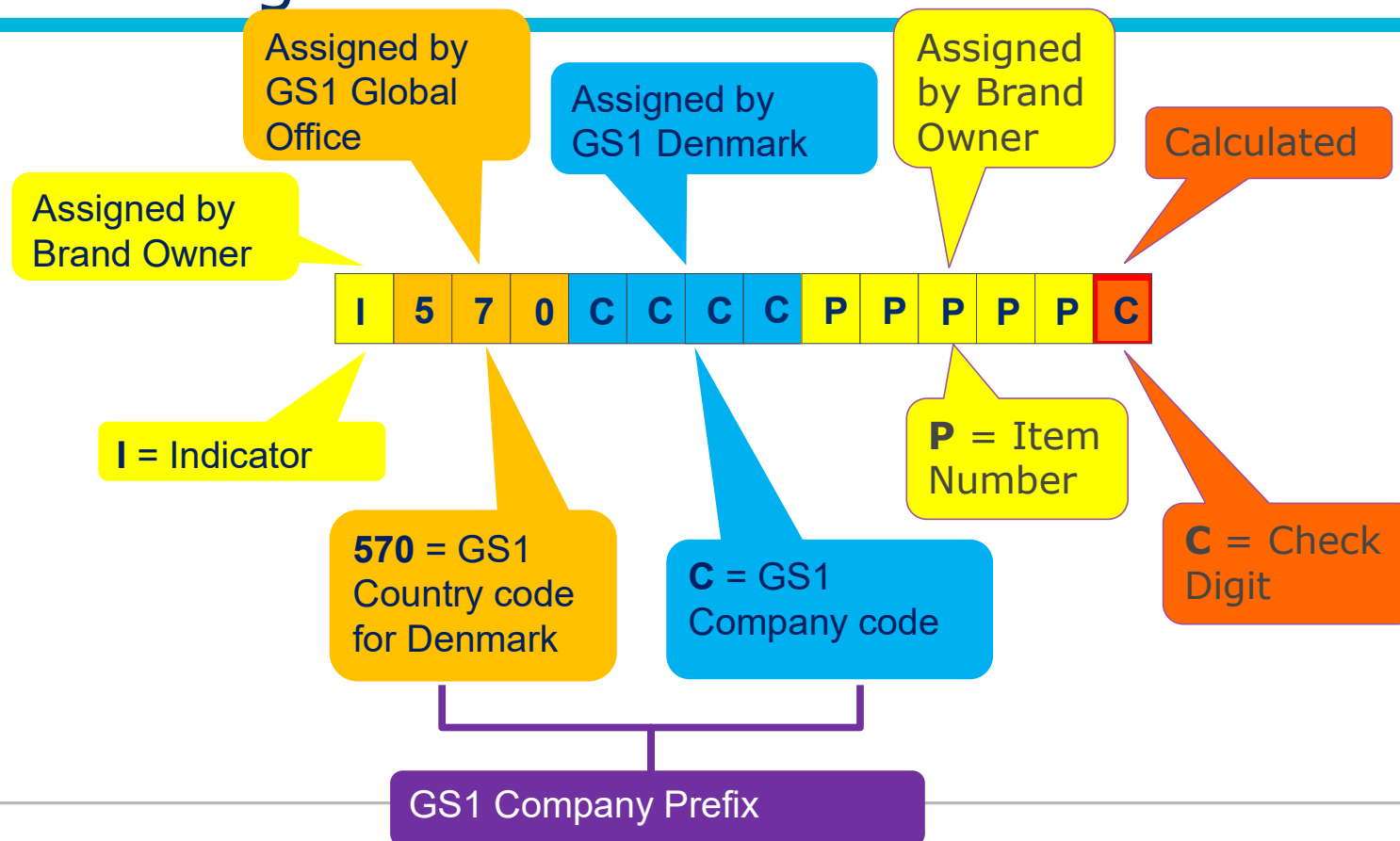
GS1 Company Prefix

GTIN structured from the GS1 company prefix

When registering with a GS1 organisation you get:

- A GS1 Company prefix – Make sure to get a prefix which fits to the ammount of products you have

- You allocate the existing numbers to fulfil the GTIN – GS1 recommend that you do not put any intelligence into the number

- The last digit is a check digit which is calculated based on the first 13 digits

- How you allocate the item numbers are up to you, and you will be responsible for keeping track on which GTINs you have used and allocated

GTIN in different barcodes

GS1
DataMatrix

(01)05704368000027(17)160327
(10)ABC123(21)123

GS1-128
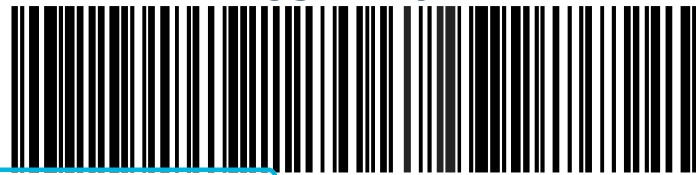
(01)05704368000027(17)160327(10)ABC123(21)123

GTIN Allocation Rules for Healthcare

New GTIN

Declared changes in net content – more than 20%

The original language on the packaging is replaced with a new language

Same GTIN

A new language is added while the original language remains on the package

Minor changes which do not affect the functionality

GS1 Healthcare GTIN Allocation Rules

GTIN Allocation Rules for the Healthcare Sector

Release 9.0.2, Ratified, Dec 2015

http://www.gs1.org/docs/gsmp/healthcare/GS1_Healthcare_GTIN_Allocation_Rules.pdf

GTIN Variations

- What do you do if….

    - Nets with different size, color, and label language specifications
    - Generic branding versus country-specific packaging
    - Bulk-packaged nets versus nets packaged in polybags
    - An order requires instructional inserts
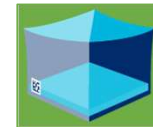   - An order contains hooks & strings

Different GTINs are required for nets with different sizes, colors or label languages

LLIN Green, English
Size **190x180x180 cm**
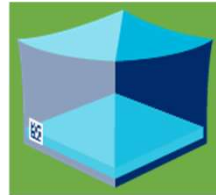
GTIN 1

Different
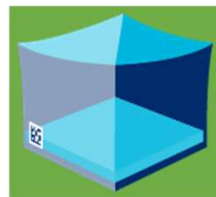
GTIN

LLIN Green, English
Size **160x170x150**

GTIN 2

LLIN **Green**, English
Size 190x180x180 cm

GTIN 1

Different

GTIN

LLIN **Orange**, English
Size 190x180x180 cm

GTIN 3

LLIN Green, **English**
Size 190x180x180 cm

GTIN 1

Different

GTIN

LLIN Green, **French**
Size 190x180x180 cm

GTIN 4

23
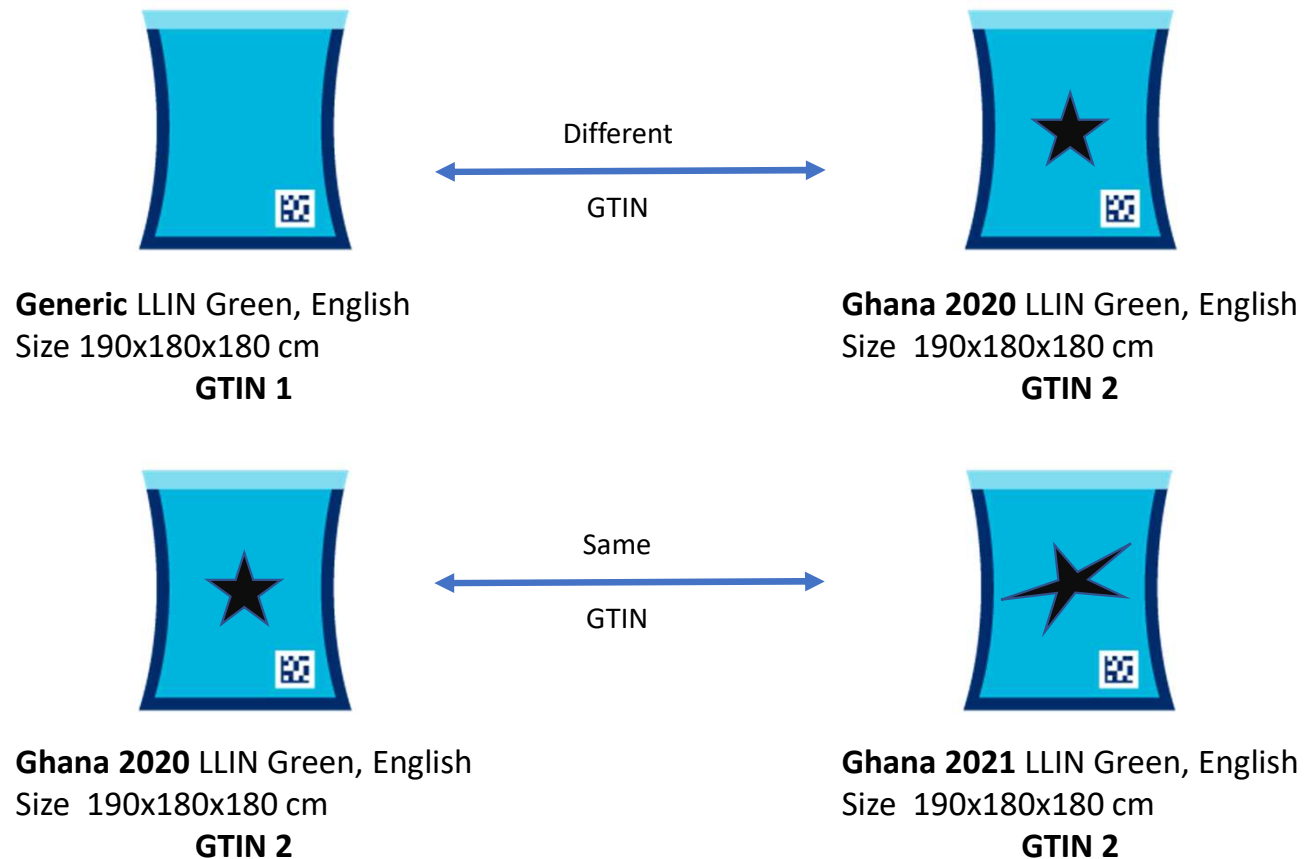
Generic branding vs country-specific packaging

- Country-specific artwork requires its own GTIN
  - It is a different orderable trade item for a specific market
- If the country-specific artwork is slightly modified year-over year, the same GTIN can still be used to distinguish that product with a specific Target Market from the generic product to be sent to other countries

Different GTIN

Generic LLIN Green, English
Size 190x180x180 cm
GTIN 1

Ghana 2020 LLIN Green, English
Size 190x180x180 cm
GTIN 2

Same GTIN

Ghana 2020 LLIN Green, English
Size 190x180x180 cm
GTIN 2

Ghana 2021 LLIN Green, English
Size 190x180x180 cm
GTIN 2

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Bulk-packaged nets versus nets packaged in poly bags
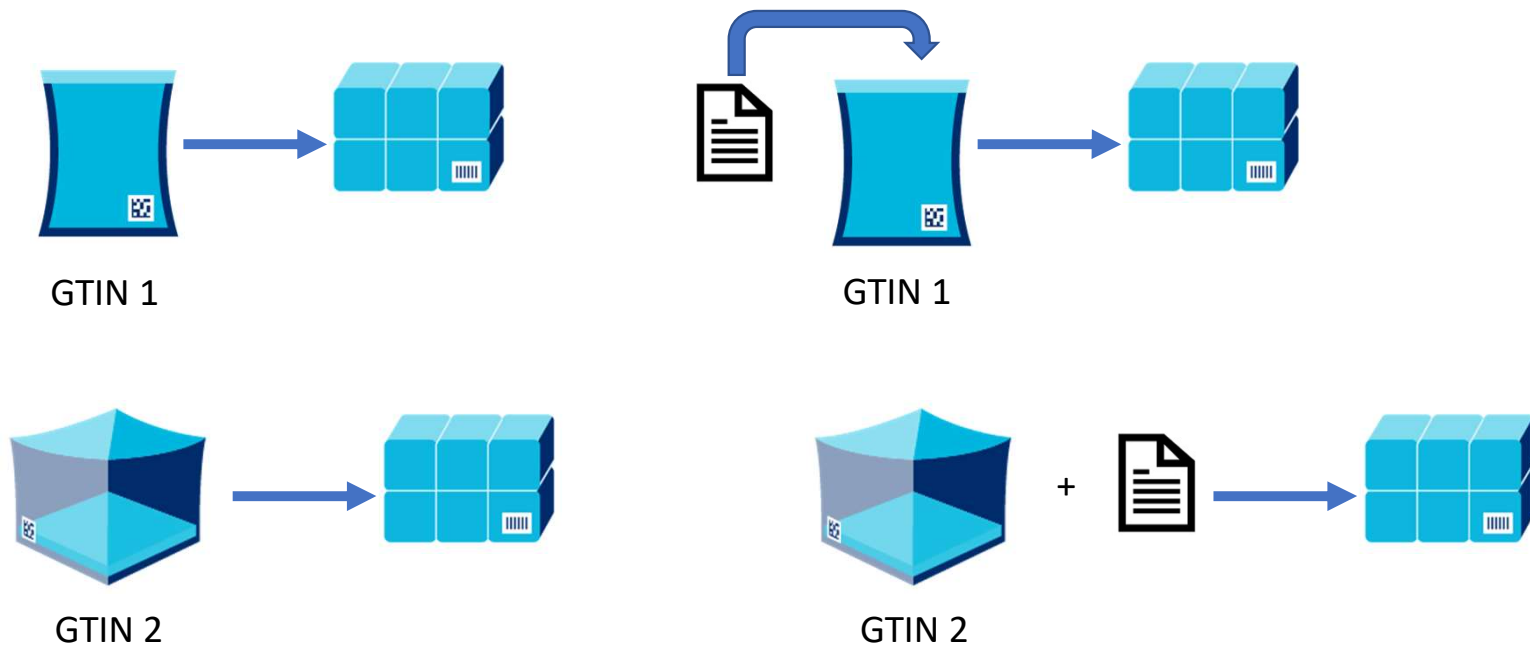

Different GTIN | **Same GTIN**
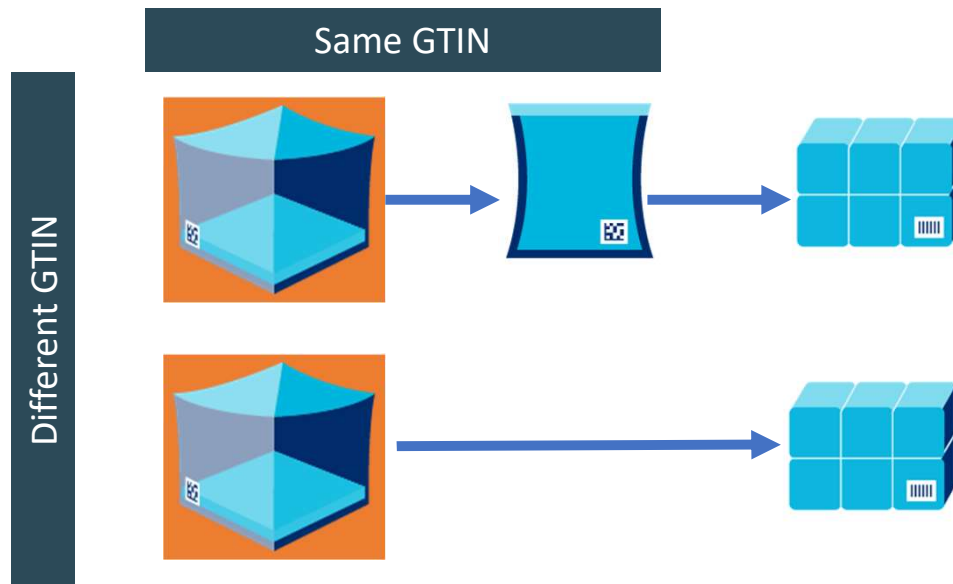
- Nets packed in polybags: net and bag can have the same GTIN
- Bulk-packaged nets: need to have a different GTINs than the net in a polybag, even if the nets are the same size and color
  - It is different orderable trade item because it has no associated bag

Instructional Leaflet

Since the ordering unit (LLIN w/ GTIN) stays the same and nothing changes in form, function, or target market of the physical product, the leaflet is added after the fact and will not constitute change in GTIN.

GTIN 1

GTIN 1

GTIN 2
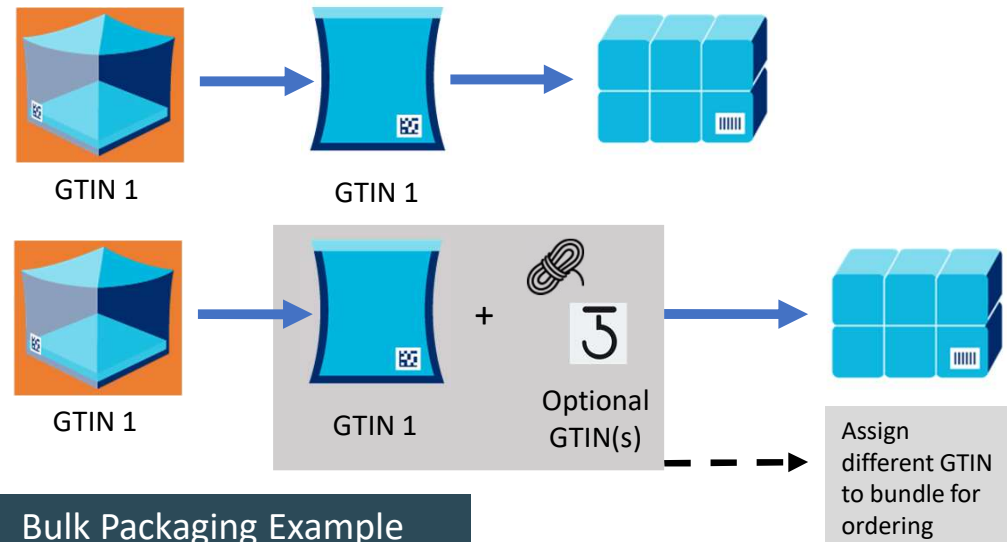
GTIN 2

Adding hooks & strings to a trade item

- If hooks and strings are added inside the polybag then a **different GTIN** is needed
  - → Different orderable unit with different price, attributes (e.g. weight), and features
- Different kinds of hooks (e.g. nails vs hooks) and strings (e.g. length) will also constitute a different GTIN because the actual ordering unit changes
- For Global Fund – assign separate GTINs to the hook-string-LLIN Bundle

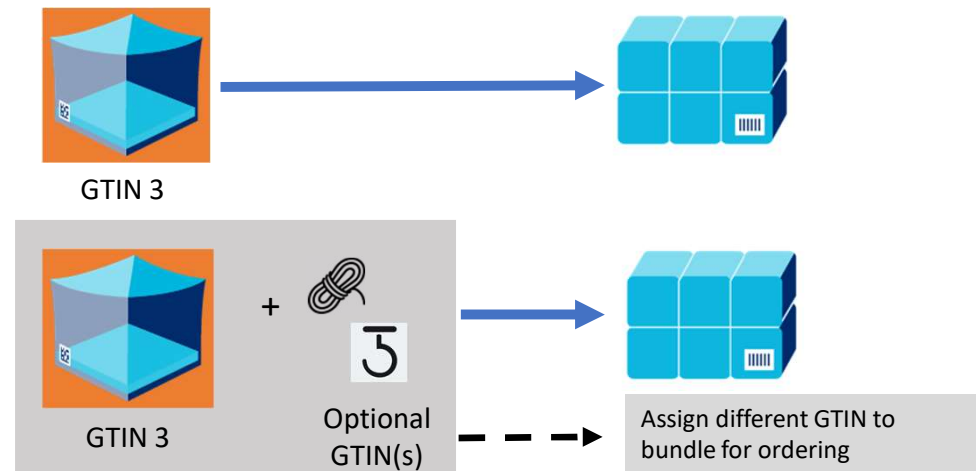GTIN 1   GTIN 1

GTIN 2   GTIN 2
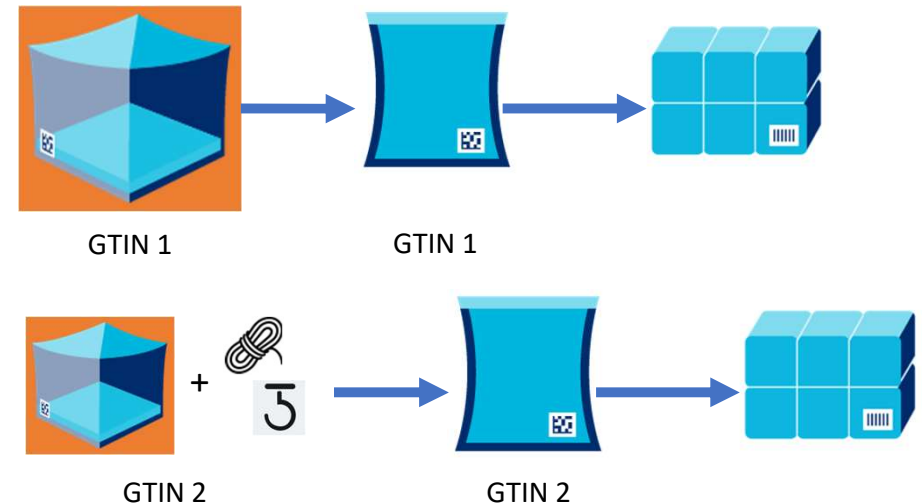
Adding hooks & strings to a logistic unit

- If hooks and strings are ordered in addition to the LLIN and packed in the bale, it is considered a bundle (i.e. it is priced, ordered, invoiced differently than the individual LLIN)
- In this instance, characteristics of the LLIN stay the same, logistic unit (bale) then just contains 3 different trade items
- The bundle needs to be assigned a GTIN for ordering purposes, but the GTIN on the LLIN stays the same
- Manufacturers may want to assign (or use existing) GTINs for each distinct trade item (hooks and strings), but it is not mandatory per the recommendation

Polybag Example

GTIN 1 → GTIN 1 →

GTIN 1 → GTIN 1 + Optional GTIN(s) →

Assign different GTIN to bundle for ordering

Bulk Packaging Example

GTIN 3 →

GTIN 3 + Optional GTIN(s) →

Assign different GTIN to bundle for ordering

Questions?

Upcoming Webinars

Webinar 2: Good Practices for Implementing AIDC – **May 6th, 2020**

Webinar 3: Introduction to GDSN – **July 8th, 2020**

Webinar 4: Good Practices for GDSN Synchronization – **September 9th, 2020**

Contact Us

Please reach out if you have any questions or concerns!

All Global Fund Suppliers reach out to Yosry el Eshraky at yeleshraky@idafoundation.org

All USAID/GHSC-PSM Suppliers reach out to Tori Ghine at vghine@ghsc-psm.org

All questions for GS1 please reach out to Nuran Idris at nuran.idris@gs1.org