Phase 5 Webinar – GHSC-PSM’s Adoption of The Standardized Logistic Unit Label
Meet the presenters

Rachel Smith
Global Standards Technical Specialist

John Basham
Global Standards Analyst
Teams Webinar use

Q&A

What is our strategy to become carbon neutral by 2030?

Post anonymously

Your question or discussion will be posted anonymously.
Objective

Our objective is to discuss an upcoming requirement for standardized logistic unit labels in the joint Technical Implementation Guideline and GHSC-PSM’s implementation of this label.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
<th>Phase 4</th>
<th>Phase 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDF / Stop TB</td>
<td>30 Dec 2019</td>
<td>30 Dec 2019</td>
<td>30 Jun 2020</td>
<td>30 Jun 2022</td>
<td>Voluntary but preferred</td>
</tr>
<tr>
<td>UNDP</td>
<td>Voluntary but preferred</td>
<td>Voluntary but preferred</td>
<td>Voluntary but preferred</td>
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<td>UNFPA</td>
<td>Voluntary but preferred</td>
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<td>Voluntary but preferred</td>
<td>Voluntary but preferred</td>
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</tbody>
</table>
Agenda

What is a logistic unit?
The uses of a standardized label
Demand-side data capture
What is required on the label
Timeline and next steps
What is a logistic unit?
Which products does this affect?

This requirement applies to:

- Pharmaceuticals
- Medical Devices
- Sterile Kits
- Laboratory Reagents

All procured under a long-term contract
LLIN Logistic Label Overview

Similar logistic label requirement already in place and implemented by manufacturers

TERIARY PACK LOGISTICS UNIT (BALE)
GS1-128 barcode symbology encoded with and printed as HRI:
(00) SSCC
(02) GTIN of contained items
(37) Count of contained items
(10) Batch/lot number
(11) Production date

<table>
<thead>
<tr>
<th>[Brand Name] Long Lasting Insecticide Nets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufactured by:</strong> Factory XYZ</td>
</tr>
<tr>
<td><strong>Address</strong></td>
</tr>
<tr>
<td><strong>Manufactured for:</strong> National Malaria Control Program</td>
</tr>
<tr>
<td><strong>Address</strong></td>
</tr>
<tr>
<td><strong>SSCC</strong></td>
</tr>
<tr>
<td>006141411234567890</td>
</tr>
<tr>
<td><strong>GTIN</strong></td>
</tr>
<tr>
<td>10857674002017</td>
</tr>
<tr>
<td><strong>Batch Number</strong></td>
</tr>
<tr>
<td>NYFUL01</td>
</tr>
<tr>
<td><strong>Production Date</strong></td>
</tr>
<tr>
<td>201231</td>
</tr>
<tr>
<td><strong>GLN From</strong></td>
</tr>
<tr>
<td>0858939248292</td>
</tr>
<tr>
<td><strong>GLN To</strong></td>
</tr>
<tr>
<td>0858939007009</td>
</tr>
<tr>
<td><strong>Count</strong></td>
</tr>
<tr>
<td>50</td>
</tr>
<tr>
<td><strong>Sequence</strong></td>
</tr>
<tr>
<td>3 of 250</td>
</tr>
</tbody>
</table>
Uses of standardized logistic unit label

Support downstream use

• A standardized logistic unit label allows downstream partners to use logistic units in AIDC activities without breaking down units

Support global operations

• A standardized logistic unit label supports operational use in operations such as receiving and logistics to achieve goals such as time reduction, cost saving, and product verification
Uses of standardized logistic unit label

A standardized logistic label meets country needs to scan and understand what's in a logistic unit at the point of receipt.

A. Trade Item and Location Identification
B. Master Data Management
C. Trade Item Barcode Labeling and Scanning
D. Transaction Data Exchange
E. Logistic Unit Identification, Labeling, and Scanning
F. Serial Number Management
G. Event-based Data Exchange

Traceability
Verification
Logistic unit label as a part of demand-side data capture

- **EDI**
  - robust, high-tech systems and environments
  - full data set, completely automated

- **ePackingList**
  - lower tech, hybrid systems and environments
  - same data set, partially automated

- **Standardized Logistic Unit Label**
  - low-tech systems and environments
  - small data set, automated via scanning
Examples of Non-Standardized LU Labels
What is required on the standardized logistic label?

- **GTIN**: Required when the logistic unit is also a trade item.
- **CONTENT**: Required when the logistic unit contains entirely the same trade item.

For the GS1 General Specifications Section 2.2.1, individual logistics units, a GS1 DataBar symbology MAY be included in addition to the GS1-128 symbology.

See the Global Standards Technical Implementation Guidelines for Global Health Commodities for additional information on how to apply the logistic unit guidance in different scenarios.
What is required on the standardized logistic label?

- **GTIN** required when the logistic unit is also a trade item.
- **CONTENT** required when the logistic unit is not also a trade item and the logistic unit contains entirely the same trade item.
- GTIN is omitted for logistic units containing mixed trade items.

**Example GS1 Logistic Label**

- **Brand Name**
- **Product Name**
- **Manufactured by:**
  - Factory XYZ
  - Address
  - Address
- **Manufactured for:**
  - Recipient Name
  - Address
  - Address
- **SSCC**
  - 006141411234567890
- **CONTENT**
  - 10857674002017
- **EXPIRY**
  - 31 Oct 2025
What is required on the standardized logistic label?
What is required on the standardized logistic label?

- **Batch/Lot**: NYFUL01
- **Expiry**: 31 Oct 2025
- **Count**: 50

**Count of contained trade items required only when a logistic unit contains entirely the same trade item.**

Data encoded in the barcode will reflect rules for each data field as defined above.

*Per the GS1 General Specifications Section 2.2.1, Individual logistics units, a GS1 DataMatrix symbol MAY be included in addition to the GS1-128 symbol.*

See the Global Standards Technical Implementation Guideline for Global Health Commodities for additional information on how to apply the logistic unit guidance in different scenarios.
### What is required on the logistic label?

<table>
<thead>
<tr>
<th>Logistic Unit Scenario</th>
<th>Data written in HRI and encoded in data carrier(s)</th>
</tr>
</thead>
</table>
| A homogenous logistic unit, for example, a pallet or case that includes only one trade item, for example, a piece of medical equipment. | • (0) SSCC  
• (01) GTIN  
• (10) Batch/Lot  
• (17) Expiration date |
| A homogenous logistic unit, for example, a pallet that consists entirely of the same trade item with the same batch/lot number and expiration date. | • (0) SSCC  
• (2) GTIN of contained trade items  
• (10) Batch/Lot  
• (17) Expiration date  
• (37) Count of contained trade items |
| A homogenous logistic unit that is also a trade item, for example, a pallet that is an orderable unit and that contains one or more other trade items with the same batch/lot number and expiration date. | • (0) SSCC  
• (01) GTIN  
• (10) Batch/Lot  
• (17) Expiration date |
| A heterogeneous logistic unit, for example, a pallet that consists entirely of the same trade item, but with different batch/lot numbers and/or expiration date. | • (0) SSCC  
• (02) GTIN of contained trade items  
• (17) Expiration date  
• (37) Count of contained trade items |
| A heterogeneous logistic unit, for example, a pallet that consists of different trade items. | • (0) SSCC |
# Serial Shipping Container Code (SSCC) 101

<table>
<thead>
<tr>
<th>What is an SSCC?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• An identification key used to uniquely identify a logistic unit.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How is an SSCC different from a GTIN?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• An SSCC acts as a license plate to track a logistic unit through the supply chain.</td>
</tr>
<tr>
<td>• A GTIN uniquely identifies trade items (products and services).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Who generates an SSCC?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The organization creating the logistic unit uses its own GS1 company prefix to generate the SSCC.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SSCC reuse rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The SSCC must remain unique and not be reallocated for a minimum of one year from the shipment date of the logistic unit from the SSCC assignor to the trading partner.</td>
</tr>
</tbody>
</table>
### Serial Shipping Container Code (SSCC) Formatting

<table>
<thead>
<tr>
<th>Extension Digit</th>
<th>The Extension Digit can have any value from 0 to 9 and is used to increase the numbering capacity. Its use is at the discretion of the company allocating the SSCC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS1 Company Prefix (GCP)</td>
<td>The GCP is allocated by GS1 Member Organizations to the company that allocates the SSCC – here the physical builder or the brand owner of the logistic unit. It makes the SSCC unique worldwide but does not identify the origin of the unit. The length of a GS1 Company Prefix depends on each GS1 Member Organization's policy on number allocation.</td>
</tr>
<tr>
<td>Serial Reference</td>
<td>The Serial Reference is a serial number created by the company allocating the SSCC. The simplest way to allocate the serial number is sequentially, for example ...00000, ...00001, ...00002.</td>
</tr>
<tr>
<td>Check Digit</td>
<td>The Check Digit is calculated using the algorithm defined by GS1. [GENSPECS, 7.9.1], also see [CHECK] for a calculator</td>
</tr>
</tbody>
</table>
### Application Identifier (AI) Definitions

<table>
<thead>
<tr>
<th>GSI Application Identifiers (AIs) are prefixes used in barcodes and EPC/RFID-tags to define the meaning and format of data attributes.</th>
<th>(00) Serial Shipping Container Code (SSCC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(01) Global Trade Item Number (GTIN)</td>
</tr>
<tr>
<td></td>
<td>(02) GTIN of contained trade items (Content)</td>
</tr>
<tr>
<td></td>
<td>(10) Batch or lot number</td>
</tr>
<tr>
<td></td>
<td>(17) Expiration date (YYMMDD)</td>
</tr>
<tr>
<td></td>
<td>(37) Count of contained trade items (Count)</td>
</tr>
</tbody>
</table>
Requirements for information sharing

Suppliers are required to retain SSCC and provide SSCC upon request.

Within thirty (30) days of a request by Chemonics, the Supplier will make serial number data for goods procured under any resulting order available in a mutually agreed upon format.

Data presented on transaction documents – including but not limited to the packing list, commercial invoice, and advanced ship notice – must align with the identifiers used on the shipping label (i.e. once the Supplier has transitioned to using the GTIN as the primary identifier, this must be used on packing lists as well).

Suppliers will provide SSCCs for all logistic units on relevant transactional documentation in the format and exchange mechanism specified by a given IPA.
What’s Next?

1. Phasing new language into framework contracts over the course of 2024

2. Tracking & Reporting
   - Sample image to GHSC-PSM
   - Ongoing surveillance

3. Socialization with demand-side users
   - Share information on upcoming standardized label with countries and other users
Q&A

Key Contacts:

• The GHSC-PSM Team: datasync@ghsc- psm.org
• Your GS1 Member Organization
  • For a list of all MOs: https://www.gs1.org/contact/overview
Annex
HELPFUL TERMS

**HRI:** Human Readable Interpretation; the printed characters that accompany a barcode or other data carrier

**SSCC:** Serial Shipping Container Code; a unique identification key used to identify logistic units

**GTIN:** Global Trade Item Number, the GS1 key that uniquely identifies a product

**Count:** The total number of contained trade items identified by the GTIN

**Logistic Unit:** An item of any composition established for transport and/or storage that needs to be managed through the supply chain

**Homogenous:** A logistic unit containing one or more trade items with the same batch and/or expiration date

**Heterogeneous:** A logistic unit containing multiple different trade items and/or one trade item that varies by batch and/or expiration date