2024 Traceability Webinar Series

Master Data – GTINs & GLN Overview & Update

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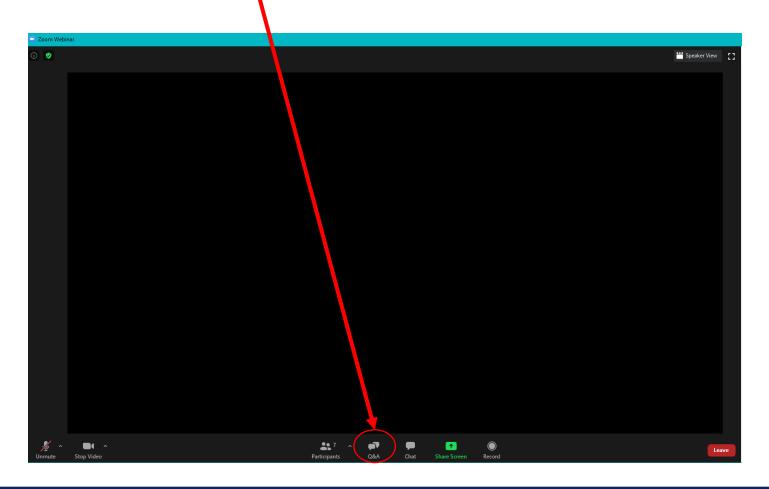
- Today's webinar is being recorded.
- All participant lines are muted.
- Today's presentation and recording will be available by Wednesday, July
 3rd.

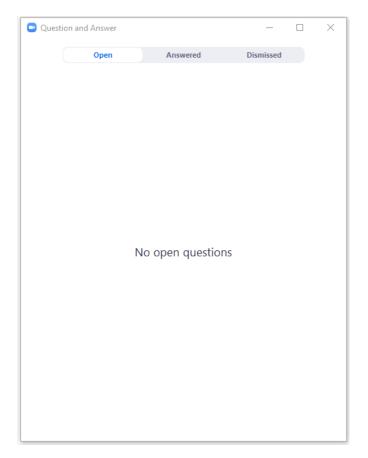
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Questions & Answers

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Panel

Ameer Ali, Sr. Director, Manufacturer Operations, Cencora, Inc.

Kevin Capatch, Director, Process Engineering, Geisinger Health System

Scott Mooney, Vice President Distribution Operations, Traceability, McKesson Corporation

Tracy Nasarenko, Vice President of Community Engagement, Healthcare, GS1 US

April Sese, DSCSA Lead, Digital Identification & Traceability, Johnson & Johnson Supply Chain

Moderator: Tim Stearns, Senior Director, Industry Relations, Healthcare Distribution Alliance



Healthcare

Master Data - GTINs & GLN Overview & Update

HDA Traceability Webinar

Tracy Nasarenko June 27, 2024



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Sharing Physical Event Data With EPCIS



		C C"	
Events are com	nrised	ot tive d	Imensions
Lvciits aic coiii	piloca		

Who owned the product and who owns it now?

Global Location Number (GLN)
(urn:epc:id:sgln:030001.111111.0)

2 What products are impacted?

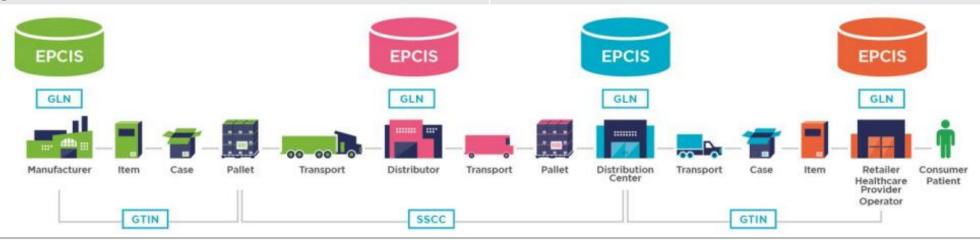
Global Trade Item Number® (GTIN®)
(urn:epc:id:sgtin:030001.0012345.11)

3 When did this event occur? Event Time (2024-12-01T07:45:16Z)

Where was the product and where is it now?

Global Location Number (GLN)
(urn:epc:id:sqln:039999.999999.0)

5 Why was this observed and at which step? Business Step urn:epcglobal:cbv:bizstep:receiving



The Global Language of Business



GS1 Identifiers For Master Data



Currently, the U.S. FDA issued Labeler code is embedded into the GS1 Company

Prefix (GCP).

GS1 Prefix

03

FDA-assigned Labeler Code

61414

GS1 Company Prefix

0361414

This enables the National Drug Code (NDC) to also be embedded within the GS1 Global Trade Item Number® (GTIN®).

The GCP is a number that is unique to each member of GS1 US and identifies you as the owner of the brand.

GS1 Company Prefix Length	GTIN Capacity	GLN Capacity	SSCC Capacity
6	1,000,000	1,000,000	100,000,000,000
7	100,000	100,000	10,000,000,000
8	10,000	10,000	1,000,000,000
9	1,000	1,000	100,000,000
10	100	100	10,000,000
11	10	10	1,000,000

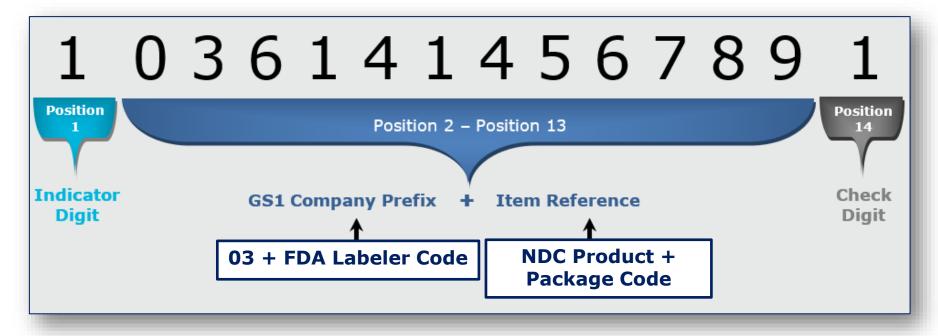


Product Identification: Global Trade Item Number (GTIN)



The "WHAT"

A GTIN is a GS1 identification key that is used to identify a trade item like your product. It is a globally unique number that is used to identify your specific product throughout the supply chain.





Difference Between NDC and GTIN





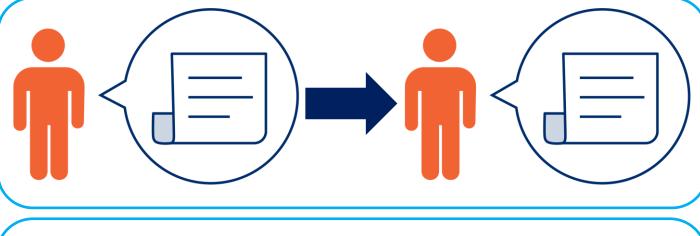


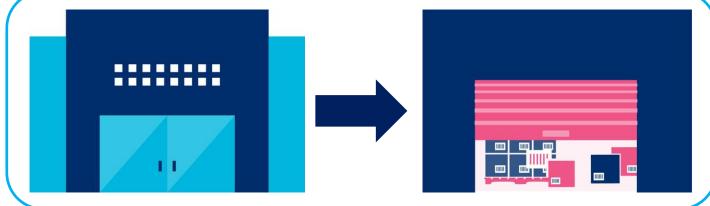
Location Identification: Global Location Number (GLN)



A 13-digit number that provides businesses the ability to know who is involved in transactions and where things are located throughout the supply chain. By uniquely identifying parties and locations, GLN helps with tracking products, optimizing processes, and providing greater visibility to transactions taking place around the world.

The "WHO & WHERE"







Why are GLNs necessary?



It is used to identify locations, legal entities, and functions in electronic business transactions in:

- Flectronic Product Code Information Service (EPCIS) In FDA's <u>DSCSA Standards</u> for the Interoperable Exchange of Information for Tracing of Certain Human, Finished, <u>Prescription Drugs, Final Guidance</u>, it recommends that trading partners use GS1's Electronic Product Code Information Services (EPCIS) standard to provide and maintain the electronic data associated with transaction information and transaction statements.
- Verification Router Service (VRS) solutions verification router service refers to using a third-party routing system to send product information back and forth between Trading Partners.





The ways a GLN is used in EPCIS data for DSCSA:



- Read Point of an EPCIS event identifies the physical location where a business process step took place
- Business location of an EPCIS event identifies the physical location where physical objects are
- Source and destination lists of an EPCIS shipping or receiving event identify the "sold by" and "sold to" parties to the transaction and they identify the "ship from" and "ship to" parties to the transaction
- <u>Business transaction lists</u> of an EPCIS event uniquely qualify a **business transaction** identifier such as a purchase order number or invoice number
- Master data contained within the EPCIS header of an EPCIS document link party and location master data to the GLNs contained within the EPCIS events
- Standard business document header (SBDH) in the EPCIS header of an EPCIS document identify the party sending the message and the receiving party



How to Translate a GLN into a SGLN



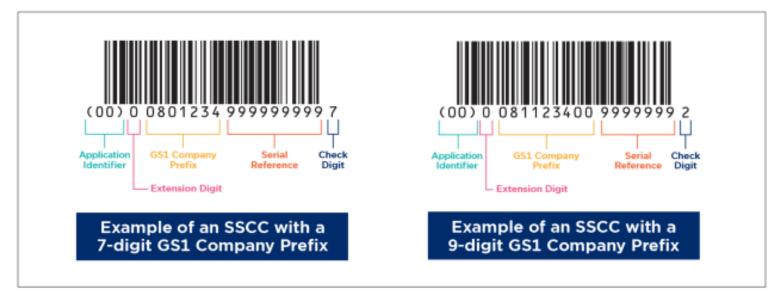
- Translate a GLN into a SGLN if it is enumerated from a GCP:
- To translate a GLN that was assigned from a GS1 Company Prefix, you will need to follow this specific data structure: urn:epc:id:sgln:CompanyPrefix.LocationReference.Extension
 - An example of GLN assigned from a GCP with a value of 1234567 for the GCP and the GLN value of 1234567890128, the corresponding EPC URN without GLN extension is as follows: urn:epc:id:sgln:1234567.89012.0
- > Translate a GLN into a SGLN if it is an individually licensed GLN (single GLN) or from the Managed GLN Program (assigned by either your GPO or Wholesale Distributor):
- To translate the GLN, you will need to follow this specific data structure: urn:epc:id:sgln:CompanyPrefixComponent..Extension
 - An example of single GLN with no GCP and the GLN value of 1200123456787, the corresponding EPC URN without GLN extension is as follows: urn:epc:id:sgln: 120012345678...0



Serial Shipping Container Code (SSCC)



The Serial Shipping Container Code (SSCC) serves as an 18-digit GS1 Identification Key utilized for identifying a logistic unit. Unlike the GTIN, the SSCC functions as a license plate for tracking a shipment of logistics units throughout the supply chain. It represents a valuable tool for enhancing supply chain efficiency and visibility.



SSCC are not "in scope" for DSCSA but are used by industry and can be an operational requirement.



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The letters "U.P.C." are used solely as an abbreviation for the "Universal Product Code" which is a product identification system. They do not refer to the UPC, which is a federally registered certification mark of the International Association of Plumbing and Mechanical Officials (IAPMO) to certify compliance with a Uniform Plumbing Code as authorized by IAPMO.



Contact Information



Tracy Nasarenko

Vice President of Community Engagement, Healthcare

GS1 US Corporate Headquarters

Princeton South Corporate Center 300 Charles Ewing Boulevard Ewing, NJ 08628 USA

T +1 302 339 0460

E tnasarenko@gs1us.org

www.gs1us.org













Appendix

The Global Language of Business



The GS1 DataMatrix



The GS1 DataMatrix is required to carry four data elements to meet the requirements of the DSCSA



GTIN (01) 00361414123410

EXP (17) 2421120

LOT (10) 0192837

SN (21) BLC0485

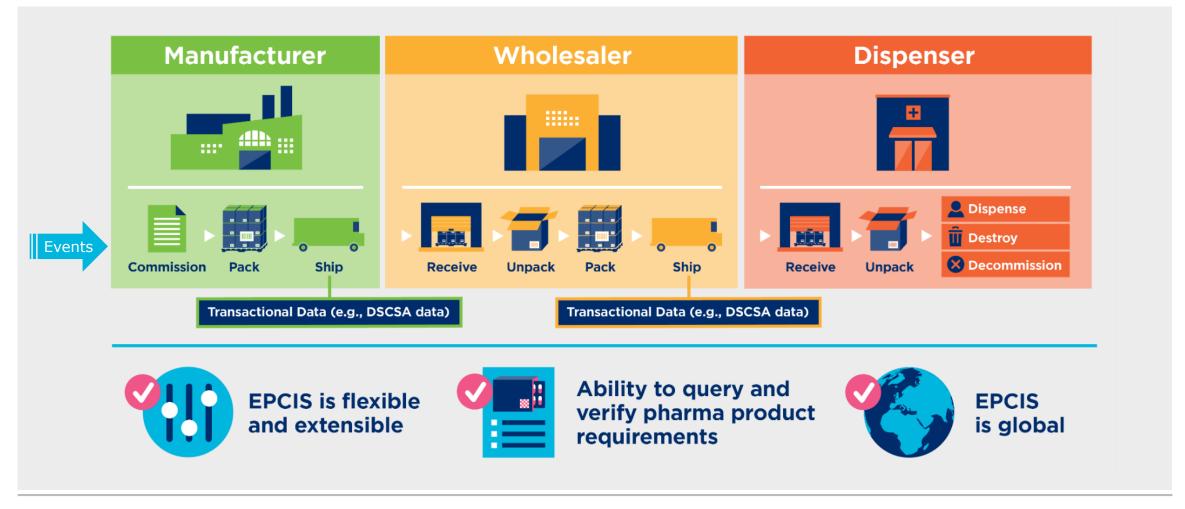
In the example above, the Ais that are fixed are first followed by the A1s that are variable

- NDC (wrapped in the GTIN AI (01))
- Serial Number AI (21)
- Batch/Lot AI (10)
- Expiration Date AI (17)



EPCIS Events captured and shared by...



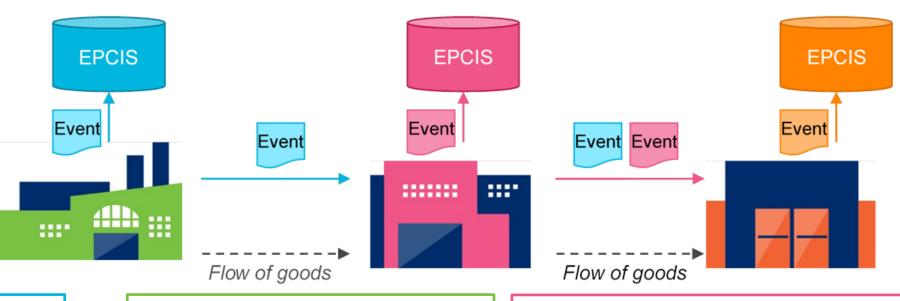




EPCIS – Sharing of EventsThe Event Identifies the "WHY" and "WHEN"



Decentralized Data Flow Model that enable Trading Partners to share the necessary events downstream



Standard Leveraged

GS1 Standards and Guideline for EPCIS and CBV

Operational Use of Standard

Implementation
Guideline: GS1
Standards for
DSCSA and
Traceability

Scenario Depiction of Oper. Use

Addendum: Guidance
and XML Examples
for Supply Chain
Choreographies in
Serialized Item-Level
Management



GS1 US Resources

Rx Secure Supply Chain Workgroup: 150+ members, 50+ organizations

- Exception Handling
 Implementation Guideline
- FAQs
- Best Practices for Industry

DSCSA Webpage

 DSCSA, Guidance by Stakeholder, GLNs, Resources, FAQs

	Resource	What It Will Help With
	Frequently Asked Questions in Preparing for the U.S. DSCSA	Answering frequently asked questions about identifying, capturing and sharing information to help meet DSCSA requirements.
	GS1 US DSCSA Implementation Guidelines	Understanding technical requirements for encoding your product with GS1 Identifiers and how to capture GS1 product identifiers when receiving shipments.
	Applying Lightweight Messaging Standard for Verification of Product Identifiers	Configuring PI verification business scenarios and technical requirements for responding to verification requests from your direct and indirect trading partners.
	How to Identify your Location for DSCSA Requirements	Identifying your locations with a Global Location Number to share information related to Transaction Information (TI) and Transaction Statements (TS) and verify product information through a third-party routing system.
,	GS1 US Implementation Guideline for Pharmaceutical Chain of Custody	Capturing GS1 product identifiers when packing and shipping when working with 3rd party agents (CMOs, CPOs, and 3PLs).
	GS1 US Pharmaceutical Conformance Test Program	Optimizing the data quality of your EPCIS serialized exchanges with the help of a certified third-party testing service.
	GS1 US DataHub	Sharing, searching, and retrieving GLN information with your trading partners.



GS1 Tools

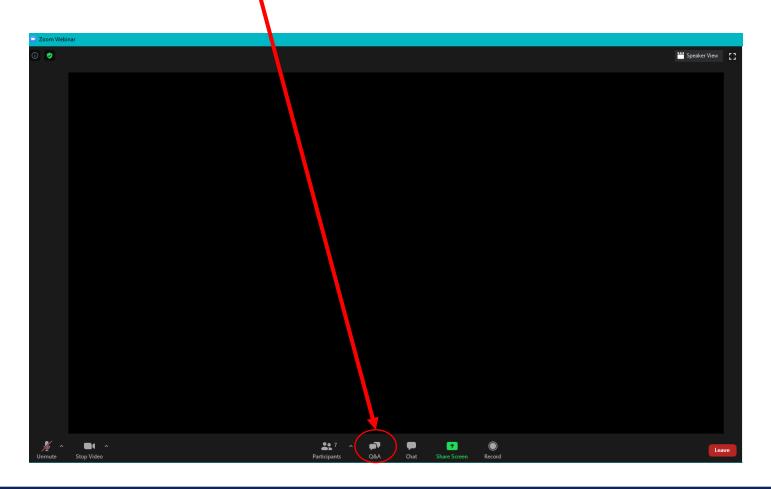


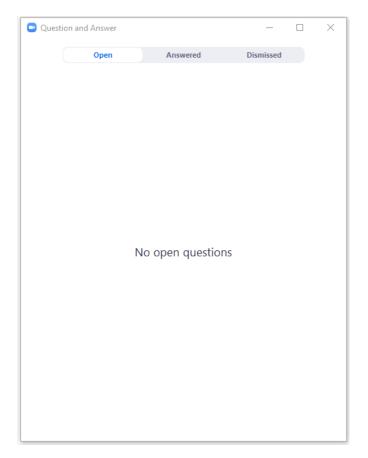
- GS1 General Specifications
- GTIN Management Standard
- GLN Allocation Rules Standard
- Check digit calculator Calculate correct check digit for GS1 barcodes.
- GS1 Database Verify global identity for products, locations and companies.
- <u>EPC encoder/decoder</u> Translate between GS1 identifiers and different Electronic Product Code (EPC) forms.
- <u>EPCIS Workbench</u> Create, decode and validate Electronic Product Code Information Services (EPCIS) visibility event data.
- FREEPCIS Free EPCIS repository for development and test.



Questions & Answers

Click the Q&A bottom Zoom menu to open





Upcoming Events

2024 Traceability Webinar Series | Thursday, July 11, 2024, 2:00 PM - 3:00 PM ET | VRS: An Overview and Update on VRS Improvements

2024 Traceability Webinar Series | Thursday, August 8, 2024, 2:00 PM - 3:00 PM ET | Ask the Experts – Understanding Compliance

2024 Traceability Seminar | August 26—28, 2024 | Marriott Marquis, Washington, D.C.

Learn more at www.hda.org/upcoming-events/

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