



The Global Language of Business

# Applying GS1 Standards for DSCSA and Traceability

Addendum: Diagrams and XML Examples for Serialized Item-Level Exception Handling

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# Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>7</b>
1.1	Participants .....	7
1.2	Exception Categories .....	12
1.3	Exception Scenarios in this Document.....	12
1.4	How to Use This Document.....	13
1.5	All of the XML examples in this document are provided together in the last chapter. Use the bookmark provided with each individual exception to navigate directly to the corresponding XML examples. Exception Notification Process .....	14
1.6	The GS1 US DSCSA Implementation Suite.....	15
1.7	Roles of Trading Partners .....	15
1.8	Document Principles .....	15
<b>2</b>	<b>Exception Category 1: Product, No Data .....</b>	<b>17</b>
2.1	Exception 1-1A: Overage discovered at Buyer location - Buyer keeps the product .....	17
2.2	Exception 1-1B: Overage discovered at Buyer location - Buyer sends back unexpected product.....	24
2.3	Exception 1-2: Traceability data contains incorrect lot information for entire shipment.....	27
2.4	Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells extra product to Buyer .....	31
2.5	Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks Buyer to return extra product .....	35
2.6	Exception 1-4A: Incorrect traceability data – Sold-to information in Shipping event is incorrect .....	39
2.7	Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping event is incorrect .....	44
2.8	Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong Receiver. ....	48
2.9	Example 1-6: No DSCSA transaction data for an entire shipment is received due to a transmission issue.....	51
2.10	Exception 1-7: GLN incorrect in the file causing failure – the Sender has bad data .....	53
2.11	Exception 1-8: File failed due to missing Master Data in the Buyer’s system – the Receiver has an incorrect GTIN for the product .....	56
<b>3</b>	<b>Exception Category 2: Data, No Product .....</b>	<b>59</b>
3.1	Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing product– Correction made within 24 hours of the original shipment .....	61
3.2	Exception 2-1B: Shortage discovered at Buyer- Buyer wants the missing product – Correction made after 24 hours of the original shipment .....	64
3.3	Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order amended to exclude the missing product/quantity .....	67
3.4	Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer requests a replacement of the shortage. ....	69
3.5	Exception 2-2B: Quantity inference problem (concealed shortage) – Buyer does not want to receive replacement for the shortage.....	72
3.6	Exception 2-3: Shipment is cancelled and subsequent shipment containing same product is sent to Buyer.....	76

3.7 Exception 2-4A: Undelivered Shipment – Product is stolen. .... 78  
 3.8 Exception 2-4B: Undelivered Shipment – Product is lost..... 81

**4 XML Examples..... 84**

4.1 Exception 1-1A: Overage discovered at receiving – Buyer keeps the product ..... 84  
 4.1.1 Sample XML: Exchange1 - Seller -> Buyer ..... 84  
 4.1.2 Sample XML: Buyer Receives Product (First Receipt) ..... 90  
 4.1.3 Sample XML: Exchange2 - Seller -> Buyer ..... 96  
 4.1.4 Sample XML: Buyer Receives Product (2nd Receipt) ..... 101  
 4.2 Exception 1-1B: Overage discovered at Buyer location - Buyer sends back unexpected product ..... 106  
 4.2.1 Sample XML: Exchange1 - Seller -> Buyer ..... 106  
 4.2.2 Sample XML: Buyer Receives Product ..... 112  
 4.3 Exception 1-2: Traceability data contains incorrect lot information for entire shipment..... 117  
 4.3.1 Sample XML: Exchange1 - Seller -> Buyer ..... 117  
 4.3.2 Sample XML: Buyer Receives Pallet and Quarantines Product ..... 124  
 4.3.3 Sample XML: Exchange2 - Seller -> Buyer ..... 127  
 4.3.4 Sample XML: Buyer Receives Product ..... 134  
 4.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells extra product to Buyer ..... 139  
 4.4.1 Sample XML: Exchange1 - Seller -> Buyer ..... 139  
 4.4.2 Sample XML: Buyer Unpacks Product ..... 144  
 4.4.3 Sample XML: Buyer Receives Product (First Receipt) ..... 147  
 4.4.4 Sample XML: Exchange2 - Seller -> Buyer ..... 151  
 4.4.5 Sample XML: Buyer Receives Product (2nd Receipt) ..... 155  
 4.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks Buyer to return extra product ..... 160  
 4.5.1 Sample XML: Exchange1 - Seller -> Buyer ..... 160  
 4.5.2 Sample XML: Buyer Receives Product (First Receipt) ..... 166  
 4.5.3 Sample XML: Exchange2 - Seller -> Buyer ..... 170  
 4.5.4 Sample XML: Buyer Receives Product (Second Receipt) ..... 176  
 4.6 Exception 1-4A: Incorrect traceability data – Sold-to information in Shipping event is incorrect ..... 180  
 4.6.1 Sample XML: Exchange1 - Seller -> Buyer ..... 180  
 4.6.2 Sample XML: Exchange2 - Seller -> Buyer ..... 187  
 4.6.3 Sample XML: Buyer Receives Product ..... 194  
 4.7 Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping event is incorrect ..... 200  
 4.7.1 Sample XML: Exchange1: Seller -> Buyer ..... 200  
 4.7.2 Sample XML: Exchange2 - Seller -> Buyer ..... 206  
 4.7.3 Sample XML: Buyer Receives Product ..... 213  
 4.8 Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong Receiver. .... 219  
 4.8.1 Sample XML: Exchange1 - Seller -> Buyer ..... 219  
 4.8.2 Sample XML: Exchange2 - Seller -> Buyer ..... 225  
 4.8.3 Sample XML: Buyer Receives Product ..... 232

4.9	Exception 1-6: No DSCSA transaction data for an entire shipment is received due to a transmission issue.....	237
4.9.1	Sample XML: Exchange1 - Seller -> Buyer.....	238
4.9.2	Sample XML: Exchange2 - Seller -> Buyer.....	243
4.9.3	Sample XML: Buyer Receives Product.....	248
4.10	Exception 1-7: GLN incorrect in the file causing failure – the Sender has bad data .....	252
4.10.1	Sample XML: Exchange1 - Seller -> Buyer.....	252
4.10.2	Sample XML: Exchange2 - Seller -> Buyer.....	257
4.10.3	Sample XML: Buyer Receives Product.....	263
4.11	Exception 1-8: File failed due to missing Master Data in the Buyer’s system – the Receiver has an incorrect GTIN for the product .....	267
4.11.1	Sample XML: Exchange1 - Seller -> Buyer.....	267
4.11.2	Sample XML: Exchange2 - Seller -> Buyer.....	272
4.11.3	Sample XML: Buyer Receives Product.....	278
4.12	Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing product- Correction made within 24 hours of the original shipment .....	282
4.12.1	Sample XML: Exchange - Seller -> Buyer .....	283
4.12.2	Sample XML: Buyer Receives Product.....	289
4.13	Exception 2-1B: Shortage discovered at receiving – Buyer wants to cancel the order for the missing product .....	294
4.13.1	Sample XML: Exchange1 - Seller -> Buyer.....	294
4.13.2	Sample XML: Buyer Receives Product 1 .....	300
4.13.3	Sample XML: Exchange2 - Seller -> Buyer.....	305
4.13.4	Sample XML: Buyer Receives Product 2 .....	309
4.14	Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order amended to exclude the missing product/quantity .....	314
4.14.1	Sample XML: Exchange - Seller -> Buyer .....	314
4.14.2	Sample XML: Buyer Receives Product.....	320
4.15	Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer requests a replacement of the shortage.....	326
4.15.1	Sample XML: Exchange1: Seller1 -> Buyer2 .....	326
4.15.2	Sample XML: Buyer2 Receives Product.....	332
4.15.3	Buyer2 Unpacks Product and Discovers Shortage.....	337
4.15.4	Sample XML: Exchange2 – Seller1 -> Buyer2.....	340
4.15.5	Sample XML: Buyer2 Receives Product.....	344
4.16	Exception 2-2B: Quantity inference problem (concealed shortage) – Buyer does not want to receive replacement for the shortage.....	350
4.16.1	Sample XML: Exchange1: Seller1 -> Buyer1 .....	350
4.16.2	Sample XML: Buyer1 Receives Product.....	355
4.16.3	Sample XML: Exchange2 – Seller2 -> Buyer2.....	360
4.16.4	Sample XML: Buyer2 Receives Product.....	366
4.17	Exception 2-3: Shipment is cancelled and subsequent shipment containing same product is sent to Buyer.....	370
4.17.1	Sample XML: Exchange1 - Seller -> Buyer.....	370
4.17.2	Sample XML: Exchange2 - Seller -> Buyer.....	376
4.17.3	Sample XML: Buyer Receives Product.....	381



4.18	Exception 2-4A: Undelivered Shipment – Product is stolen. ....	386
4.18.1	Sample XML: Exchange1 - Seller -> Buyer.....	386
4.18.2	Sample XML: Exchange2 - Seller -> Buyer.....	391
4.19	Exception 2-4B: Damaged product discovered at receiving – Seller authorizes Buyer to destroy product .....	395
4.19.1	Sample XML: Exchange1 - Seller -> Buyer.....	395
4.19.2	Sample XML: Seller Updates Product Disposition.....	400
A.1	Glossary.....	403

## About GS1

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GS1 US®, a member of GS1 global, is a not-for-profit information standards organization that facilitates industry collaboration to help improve supply chain visibility and efficiency through the use of GS1 Standards, the most widely used supply chain standards system in the world. Nearly 300,000 businesses in 25 industries rely on GS1 US for trading partner collaboration that optimizes their supply chains, drives cost performance and revenue growth, while also enabling regulatory compliance. They achieve these benefits through solutions based on GS1 global unique numbering and identification systems, barcodes, Electronic Product Code (EPC®)-based RFID, data synchronization, and electronic information exchange.

## About GS1 Healthcare

GS1 Healthcare is a global, voluntary healthcare user group developing global standards for the healthcare supply chain and advancing global harmonization. GS1 Healthcare consists of participants from all stakeholders of the healthcare supply chain: manufacturers, wholesalers, and distributors, as well as hospitals and pharmacy retailers. GS1 Healthcare also maintains close contacts with regulatory agencies and trade organizations worldwide. GS1 Healthcare drives the development of GS1 Standards and solutions to meet the needs of the global healthcare industry and promotes the effective utilization and implementation of global standards in the healthcare industry through local support initiatives like GS1 Healthcare US® in the United States.

## About GS1 Healthcare US

GS1 Healthcare US® is an industry group that focuses on driving the adoption and implementation of GS1 Standards in the healthcare industry in the United States to help improve patient safety and supply chain efficiency. GS1 Healthcare US brings together members from all segments of the healthcare industry to address the supply chain issues that most impact healthcare in the United States. Facilitated by GS1 US, GS1 Healthcare US is one of over 30 local GS1 Healthcare user groups around the world that supports the adoption and implementation of global standards developed by GS1.

# 1 Introduction

The U.S. Food and Drug Administration (U.S. FDA) Drug Supply Chain Security Act (DSCSA) traceability requirements became mandatory for the pharmaceutical industry in 2015, marking the beginning of the journey to lot-level management, product serialization, and item-level traceability in the healthcare supply chain. In response, members of the United States pharmaceutical industry prepared their systems and business process to meet the requirements. During this journey, the pharmaceutical industry has largely adopted the use of Electronic Product Code Information Services (EPCIS) for item-level serialized traceability and interoperability. EPCIS is a GS1 Standard that enables supply chain partners to capture event information about supply chain events (e.g., commissioned, packed, shipped, and received; etc.), and to share that information with their trading partners securely and in near real-time.

EPCIS is a flexible standard that can be leveraged for a wide variety of business needs. There are numerous options for how the standard can be implemented in order to accommodate different applications and environments. Nonetheless, there still needs to be a certain level of consistency and standardization in terms of how it is implemented by individual trading partners to support item-level serialized traceability in an interoperable manner. Therefore, members of the U.S. pharmaceutical industry joined together to determine how EPCIS can best be applied to support these applications. These industry leaders worked together to analyze pharmaceutical supply chain business processes and business requirements, considered the various options, and developed the Implementation Guideline: Applying GS1 Standards for DSCSA and Traceability, Release 1.2 and 1.3, to provide that standardized approach.

The industry is required to supply products as well as the required data, Transaction Information (TI) and Transaction Statement (TS), for DSCSA as of November 27, 2023. It is concerning that quarantining a product due to a data issue may impact the industry's ability to distribute and cause drug shortages, especially since not all exceptions are associated with suspect or illegitimate products. Managing serialized products throughout the supply chain is an "order of magnitude" type of change for trading partners. As the industry prepares to manage serialized products while simultaneously tracing data for each saleable unit, exceptions regarding traceability-related data will likely occur. This document was developed by the GS1 Healthcare US Rx Secure Supply Chain workgroup as a means to start assessing how supply chain partners might further leverage the EPCIS to address exceptions within supply chain business processes that impact serialization and visibility. The primary goal is to resolve those exceptions that are likely to occur and support the ability for an accurate trace request.

This document identifies supply chain business exception scenarios, defines the impact on the trading partners, and depicts the full choreography of how trading partners would interact to resolve example exception business scenarios using EPCIS. While this document provides illustrative examples of exception processing using the EPCIS standard, the list of examples is not exhaustive. It is recognized that there are other methods that may be used by individual trading partners.



**Note:** As with all GS1 Standards and solutions, this guide is voluntary, not mandatory. It should be noted that use of the words "must" and "require" throughout this document relate exclusively to technical recommendations for the proper application of the standards to support the integrity of your implementation.

## 1.1 Participants

This document was developed by the GS1 Healthcare US Rx Secure Supply Chain workgroup as a means to start assessing how supply chain partners might further leverage the EPCIS to address exceptions within supply chain business processes that impact serialization and visibility.

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## 1.2 Exception Categories


The serialized exceptions presented in this document have been categorized into two groups, representing the primary origin of these exceptions:

- Product with No Data (PND)
- Data with No Product (DNP)

## 1.3 Exception Scenarios in this Document

To date, the GS1 Healthcare US Secure Supply Chain workgroup has identified twenty-two Serialized Item-Level Exceptions that may occur within those two categories. Exceptions can occur simultaneously within both categories.

For each exception, this document provides specific business process steps, narrative tables with steps and EPCIS events and XML examples. The goal is to enable company systems to resolve exceptions with minimal human interaction by specifying EPCIS event choreographies that are aligned with the company's business rules and processes.

-  **Important:** Each company is individually responsible for meeting all statutory and/or regulatory requirements for their company and their products. Consult with your company's legal counsel or compliance team (regulatory or quality) for more specific information about current statutory and regulatory requirements applicable to your company and products.

**Table 1-1** Serialized Exceptions Scenarios

Category	Exception Scenario	Product and Data arrived together	Data Accurate*	Example Resolution
1 – Product with No Data (PND)	<b>Exception 1-1: Overage discovered at Buyer</b> 1-1A: Buyer keeps unexpected product 1-1B: Buyer refuses or returns unexpected product	N	N	Send supplemental data file and supporting events with corrections (must conform as a DSCSA-compliant EPCIS file) Return process
	<b>Exception 1-2: Traceability data contains incorrect lot information for entire shipment</b> [ <i>This is viewed as a Quality event and would be resolved based on the situation</i> ]	Y	N	Potentially send a new commissioning event with the ability of the receiver to accept duplicative data which would not apply to Manufacturers as they are the creator of the file
	<b>Exception 1-3: Quantity inference problem (concealed overage)</b> 1-3A: Seller decides to sell extra product 1-3B: Seller asks Buyer to return extra product	N	N	Send supplemental data file and supporting events with corrections (must conform as a DSCSA-compliant EPCIS file) Return process
	<b>Exception 1-4: Incorrect traceability data</b> 1-4A: Sold-to information in <i>Shipping</i> event is incorrect 1-4B: Ship-to information in <i>Shipping</i> event is incorrect	N	N	Send supplemental data file and supporting events with corrections (must conform as a DSCSA-compliant EPCIS file) Send supplemental data file and supporting events with corrections (must conform as a DSCSA-compliant EPCIS file)
	<b>Exception 1-5: Incorrect header</b> 1-5A: Receiver in EPCIS header is incorrect, routed to the wrong Receiver 1-5B: Receiver in EPCIS header is incorrect, routed to the correct Receiver	N Y	N N	Send supplemental data file and supporting events with corrections (must conform as a DSCSA-compliant EPCIS file) Send supplemental data file and supporting events with corrections (must conform as a DSCSA-compliant EPCIS file)
	<b>Exception 1-6: No traceability data is received</b>	N	Y	Resend file
	<b>Exception 1-7: Master Data incorrect in the file causing the file to fail – the Sender has bad data</b>	N	N	Identify the incorrect master data, correct master data, and regenerate file.
	<b>Exception 1-8: File failed due to missing Master Data in the Buyer's system – the Receiver has missing data</b>	N	Y	Resend file
	2 – Data with No Product (DNP)	<b>Exception 2-1: Shortage discovered at Buyer</b> 2-1A: Buyer wants the missing product and within 24 hours 2-1B: Buyer wants the missing product and past 24 hours 2-1C: Buyer wants Purchase Order amended to exclude the missing product/quantity	N	N
<b>Exception 2-2: Quantity inference problem (concealed shortage)</b> 2-2A: Buyer in Drop Shipment scenario wants the missing product and past 24 hours 2-2B: Downstream Buyer wants to cancel the missing product		N	N	Ship Shortage  Cancel the PO line item(s) for the missing product(s)
<b>Exception 2-3: Shipping Issue</b> 2-3A: Shipment is cancelled and shipped subsequently to Buyer 2-3B: Buyer returns product to Seller due to damage 2-3C: Buyer returns product to Seller due to over-ordering (Saleable return)		N Y Y	N Y Y	Return process, file resent when shipment occurs under new SSCC Return process Return process
<b>Exception 2-4: Undelivered shipment, disposition of product changing versus the exchange of data</b> 2-4A: Product is stolen 2-4B: Product is lost		N N	Y Y	3911 Process, Disposition Stolen Disposition Unknown

\*Assumption based on scenario illustrated

As pilots and implementations continue to inform the content of this guideline, other exceptions may be uncovered and documented in future releases of this document.

## 1.4 How to Use This Document

For each exception, this document provides: Business Process Steps, Narrative Table (for the diagram) and XML examples.

## 1.5 All of the XML examples in this document are provided together in the last chapter. Use the bookmark provided with each individual exception to navigate directly to the corresponding XML examples. Exception Notification Process

Due to the complexity and variety of business use cases involving serialized exception management, it is required for trading partners to engage in communication to identify, investigate and resolve issues. Therefore, at this time, exception communication and resolution processes are not fully automated.



**Note:** Data already sent to a downstream trading partner must require additional business processes and communication between trading partners to determine the best resolution.

In most cases, when an exception is discovered, the party making the discovery is the Buyer. The initial notification of the discrepancy should follow today's existing methods as established with your trading partner. However, before the exception can be fully addressed, the Buyer must inform the Seller of the *details* of the exception. This will almost always require the Buyer to provide the Seller with:

- *one or more serialized GS1 Global Trade Item Numbers® (GTIN®) (at a minimum) with serial numbers associated with those GTINs, that is, one or more GTINs, plus the serial numbers associated with those GTINs. Because each GTIN plus serial number will contain between 20 and 38 alphanumeric characters, they should only be communicated between trading partners through digital means.*
- *and/or one or more Serial Shipping container Codes ® (SSCC ®) that represent the G1 Identification Key used to identify the logistic unit*
- *Members of the supply chain should use one of the following methods for passing this information accurately:*
  - EPCIS events (standards for formatting and choreography of this type of data exchange will be included in a future version of the Implementation Guideline);
  - Email, when only a few serialized GTINs are involved;
  - Email containing an electronic spreadsheet, when more than a few are involved;

Website (portal) offered by one of the parties that is dedicated to the exchange of this type of data (check with your trading partner). These technologies allow both the Buyer and the Seller to make use of "copy-and-paste" for capturing the erroneous serialized GTINs and to perform the necessary investigation and resolution. Technologies that should be **avoided** when communicating serialized GTINs involved in shipping exceptions include:

- FAX
- Verbal (Telephone)
- Scanned PDF files (unless those records are required as part of an inquiry, response and/or investigation.
- Photocopies and photographs (unless those records are required as part of an inquiry, response and/or investigation.)

The challenge presented by using these technologies is that they require potentially significant interpretation by one or both parties that may cause human error. That is, someone must visually read (or listen) and then re-type all the characters in the serialized GTINs. Re-typing serialized GTINs can too easily lead to errors that can compound the original error. In addition, when any of the recommended digital technologies are used, the ideal way to capture the serialized GTIN is by either copying-and-pasting from an EPCIS event, or by using a barcode reader to read the barcode on the product itself. The former will result in a Uniform Resource Identifier (URI) format, and the latter will

result in a GS1 “element string” format. Both will include the GTIN, serial number, lot number, and expiration date, and either format should be accepted by your trading partner.

✔ **Note:** For more about URI format and GS1 element string format, including examples, see the *GS1 US Implementation Guideline: Applying GS1 Standards for DSCSA and Traceability*.

## 1.6 The GS1 US DSCSA Implementation Suite

To promote ease of use, the content for applying GS1 Standards to DSCSA and traceability has been split into four documents. All of these documents are available in the [GS1 US DSCSA Implementation Suite](#). The four documents in that suite are:

- [Implementation Guideline: Applying GS1 Standards for DSCSA and Traceability Release 1.3](#)
- [Implementation Guideline: Applying GS1 Standards for DSCSA and Traceability Release 1.2](#)
- [Addendum: Guidance and XML Examples for Supply Chain Choreographies in Serialized Item-Level Management](#)
- [Addendum: Diagrams and XML Examples for Serialized Item-Level Exceptions Handling](#)

## 1.7 Roles of Trading Partners

There are two roles we will refer to in the scenarios throughout this Addendum:

- The Seller who is the trading partner selling the product and releasing ownership of the product. This would be identified by the destination owning party GLN in the EPCIS file, the Sold From.
  - This can be different from the Sender of the file as this could be a third-party provider.
  - Distribution of the products can be from a third party of the Seller.
- The Buyer who is the trading partner purchasing the product. This would be identified by the destination owning party GLN in the EPCIS file, the Sold-To.
  - This can be different than the Receiver of the file as this could be a third-party provider.
  - The Buyer can designate an agent for possession of the products.

## 1.8 Document Principles

To ensure trading partners and their systems can work in an interoperable fashion, these principals outline assumptions and foundational requirements to ensure supply chain participants can efficiently handle exceptions between trading partners.

- Systems SHOULD have the capability to consume the same serialized identifiers more than once as applicable.

Examples of instances requiring the consumption of the same serialized identifier multiple times:

- Exception Scenarios – Product, No Data or Data, No Product
- A Seller sends a Buyer the same serialized product that had previously been returned by the Buyer.

✔ **Note:** This will be role-dependent and not applicable to the EPCIS event generator that creates the original commissioning event.

- Receiving systems SHOULD be able to receive and consume commissioning events resent by the seller:

- The need to communicate a new file and the facts surrounding that need SHOULD be agreed upon by the involved parties prior to sending the file containing the same serialized identifiers.
- In circumstances where a new file containing the same commissioning events SHALL be communicated based on the relevant facts related to a particular scenario and one or more of the EPCIS document attributes must change.

 **Important: The expectation that new documents containing the serialized identifiers would be agreed upon and expected based on prior communication.**

- When performing a comparison/match of the Product Identifiers (PI): GTIN, Serial Number, Lot, and Expiration Date,
  - If the PI matches, then accept the file if the operational status of the product supports the action. The operational status of the effected SGTIN(s) need to support the consumption of the new file.  
  
An example of a misaligned status – The SGTIN in the new file is in in-transit status, the receiving system has the same SGTIN in pending-receipt status.

 **Important: Do not replace the original file's information in the receiving system.**

- If there is a PI mismatch, prior to receiving the product, the resolution must be agreed upon by trading partners. (for reference, see scenario example(s) contained herein.)
- It is assumed that the receiver's system can receive a secondary file to correct exceptions. Organizations will manage their own process to ensure an audit trail will be created and maintained for data integrity compliance purposes.
- Audit trails are necessary for maintaining data integrity compliance. All valid EPCIS files that are received and processed successfully SHOULD be logged and stored in accordance with applicable data storage requirements.
- Systems SHOULD always reference the most relevant data when creating EPCIS documents for regulatory purposes.
- When creating an EPCIS file to correct an exception the event generator SHALL send all necessary DSCSA events in a single document as required by the law.
- The resolutions for the exception scenarios described in this document shall utilize and leverage existing functionality such as commissioning, packing, shipping, and transaction events without the use of errorDeclaration for data exchange.
- Error Declaration is not a widely adopted practice and is not currently a part of the interoperable system to meet DSCSA requirements. However, it could be used for internal exception handling if an organization's quality procedures and policies support it.



## 2 Exception Category 1: Product, No Data

The exceptions in Category 1 are exceptions in which product arrives at the Buyer’s location but without the supporting DSCSA data. The scenarios in Exception Category 1 are listed in the table below, and each scenario is covered individually in this chapter.

**Table 2-1** Exception Category 1 Scenarios

Category	Exception Scenario	Product and Data arrived together	Data Accurate*	Example Resolution
1 – Product with No Data (PND)	<b>Exception 1-1: Overage discovered at Buyer</b> 1-1A: Buyer keeps unexpected product 1-1B: Buyer refuses or returns unexpected product	N	N	Send supplemental data  Return process
	<b>Exception 1-2: Traceability data contains incorrect lot information for entire shipment</b> [ <i>This is viewed as a Quality event and would be resolved based on the situation</i> ]	Y	N	Potentially send new commissioning event with the ability of receiver to accept duplicative data (not applicable to Manufacturers)
	<b>Exception 1-3: Quantity inference problem (concealed overage)</b> 1-3A: Seller decides to sell extra product 1-3B: Seller asks Buyer to return extra product	N	N	Send supplemental data  Return process
	<b>Exception 1-4: Incorrect traceability data</b> 1-4A: Sold-to information in <i>Shipping</i> event is incorrect 1-4B: Ship-to information in <i>Shipping</i> event is incorrect	N	N	Send supplemental data  Send supplemental data
	<b>Exception 1-5: No traceability data is received</b>	N	Y	Resend file
	<b>Exception 1-6: Master Data incorrect causing file to fail</b>	N	N	Correct data and resend file
	<b>Exception 1-7: File failed due to missing Master Data</b>	N	Y	Communicate missing data, process file

\*Assumption based on scenario illustrated


### 2.1 Exception 1-1A: Overage discovered at Buyer location - Buyer keeps the product

**Definition:** Buyer orders two cases of a product from Seller. The Seller processes the order, but three cases are delivered to the Buyer. The EPCIS *Shipping* event documents that two cases were shipped by the Seller. It is agreed by the parties that the Buyer will keep the extra case.

**Resolution Summary:**

**Seller Action:** For the Buyer to keep the extra case, the Seller creates and sends a Shipping event for the third case that was inadvertently shipped but was not included on the EPCIS Shipping event documents.

- Send all necessary EPCIS events related to the overage (the additional case) to the Buyer.
- Create a new shipping event for the overage which would include a new SSCC.

 **Note:** For Shipping event extensions, the extension fields may also be included in the EPCIS Shipping event (e.g., `directPurchase`, `dropShipment`, `receivedDirectPurchaseFromPrevWhlsDist`) and it is expected that the values be aligned with what was conveyed in the initial Shipping event.

**Buyer Action:** Physically receive product into inventory and process event data for additional case.

- \*See table 2-2 for the detailed scenario
- XML examples: [Exception 1-1A: Overage discovered at receiving – Buyer keeps the product](#)

**Table 2-2** Business Process Steps for Exception 1-1A where Buyer keeps the product

Scenario	Example Resolution Steps	Example Resolution
	1. Buyer places order for two cases	
	2. Seller processes the order for two cases.	
	3. Due to Seller’s mistake, three cases are shipped to the Buyer.	
	4. Three cases arrive at the Buyers warehouse.	
	5. Two cases have DSCSA EPCIS data and are received into inventory by Buyer.	
	6. Buyer quarantines the one case without DSCSA data.	
	7. Buyer notifies Seller of the overage, provides all essential serialized data representing the overage, and any other necessary information. The Buyer informs Seller that they want to keep the extra case. Consequently, Buyer provides the Seller with a purchase order (could be a new PO or the same PO number) for the overage case.	
	8. Seller investigates the one case discrepancy.	
	9. Seller provides supplemental data file with supporting events including EPCIS <i>Shipping</i> event for one case in which the shipment date is the timestamp of the new <i>Shipping</i> event as well as the transaction date in addition to all necessary event data related to the additional case.	

**Table 2-3** Narrative Table for Exception 1-1A where Buyer keeps the product

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SNs 123, 456, 789)</p>		
S1			<p>Buyer places order for two cases. Buyer provides 2 POs for the order (PO XYZ567, PO XYZ444).</p>
S2	<p>Seller processes order for two cases.</p>		
S3	<p>Seller ships three cases by mistake. Physical shipment has SN 123, 456, and 789. Seller's IT system reflects only SN 123 and 456 as shipped.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (pallet 100)  <b>E4: Packing</b> (case SNs 123, 456 to pallet 100)  <b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and PO# XYZ444 covers case SN 456.  <b>E6: Shipping</b> (pallet 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456, 789</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SNs 123, 456 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123, 456)  <b>E3: Commissioning</b> (pallet 100)  <b>E4: Packing</b> (case SNs 123, 456 to pallet 100)  <b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444)  <b>E6: Shipping</b> (pallet 100)</p>	
S4			<p>Pallet 100 with three cases arrive at Buyer's dock: SN 123, 456, 789.</p>

Step	Seller	Transfer	Buyer
S5			<p>Buyer receives case SNs 123, and 456, but cannot receive case SN 789 because there is no DSCSA data.</p> <p><b>EPCIS event(s) created:</b>  <b>E7: Receiving</b> (pallet 100)</p> <p><b>E8: Unpacking</b> (pallet 100)</p> <p><b>E9: Inferred Receiving of contents for cases Aggregation</b> (case 123), Aggregation (case 456)</p>
S6			<p>Buyer quarantines case SN 789 because there is no DSCSA data.</p>
S7			<p>Buyer notifies Seller of overage for case SN 789. If the Buyer can identify the parent identifier for case SN 789, the Buyer includes the parent identifier information in the exception notification. The Buyer notifies the Seller of their intention to keep the extra case and issues a new PO, XYZ965, for case SN 789.</p>
S8	<p>Seller investigates discrepancy for case SN 789. The result of the investigation is that case SN 789 is legitimate and was shipped by mistake.</p> <p>Since the Buyer wants to keep the extra case, the Seller executes necessary steps to generate EPCIS events to support DSCSA data requirements, ..</p> <p><b>EPCIS event(s) created:</b>  <b>E10: Commissioning</b> (shipper case 101)</p> <p><b>E11: Packing</b> (case SN 789 to shipper case 101)</p> <p><b>E12: Shipping</b> (shipper case 101)</p>		

Step	Seller	Transfer	Buyer
S9	Seller provides supplemental data file with supporting events for extra case, SN 789.	Seller → Buyer  <b>EPCIS:</b> <b>E1: Commissioning</b> (case SN 789 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SN 789)  <b>E10: Commissioning</b> (shipper case 101)  <b>E11: Packing</b> (case SN 789 to shipper case 101)  <b>E12: Shipping</b> (shipper case 101)	
S10			Buyer now receives case SN 789.  <b>EPCIS event(s) created:</b> <b>E13: Receiving</b> (shipper case 101)  <b>E14: Unpacking</b> (shipper case 101)  <b>E15: Inferred Receiving</b> of contents for case Aggregation (case 789)

**Table 2-4** Data Elements of *Shipping* Event

Element	Usage	Population rules for exception*	Type	Value	Reason
<b>eventTime</b>	Required	Timestamp of <i>Shipping</i> Event transaction	Timestamp	Date and time of event.	EPCIS standard definition. For purposes of DSCSA, this is considered the shipping date (when bizStep = shipping).
<b>eventTimeZoneOffset</b>	Required	Above	String	Time zone offset in effect at the time and place where the event occurred.	EPCIS standard definition
<b>recordTime</b>	Optional		Timestamp	Date/ time event was recorded in an EPCIS repository.	EPCIS standard definition
<b>epcList</b>	Required	EPC(s) of the shortage	List of URI	The EPC(s) of the outermost containers in the packaging hierarchy. Most likely, SSCCs of Cases or Pallets.	EPCIS standard definition
<b>action</b>	Required		String	OBSERVE	EPCIS standard definition
<b>bizStep</b>	Required		URI	urn:epcglobal:cbv:bizstep:shipping	CBV standard definition
<b>disposition</b>	Required		URI	urn:epcglobal:cbv:disp:in_transit	CBV standard definition. disposition value


					"in_transit" is always paired with bizStep "shipping" for forward logistics
<b>readPoint</b>	Optional		URI	EPC Pure Identity URI for the GLN of the location at which the event took place.	EPCIS standard definition
<b>bizLocation</b>	Omitted		URI	EPC Pure Identity URI for the GLN of the location where the objects are presumed to be following the event.	For a <i>Shipping</i> event, this is unknown until a <i>Receiving</i> event occurs. Thus, bizLocation is always omitted in <i>Shipping</i> events. (Note: source and destination elements in this event provide "Ship from/to" and "Transfer from/to" information.)
<b>bizTransactionList</b>	Optional	Supplemental PO as an example <b>*To be defined between trading partners. Caution: Not all trading partners may be able to receive duplicate values, for example, a P.O. number received previously.</b>	List of biz transactions	Business transactions governing this <i>Shipping</i> event, which may include a purchase order, delivery number or an invoice. Each transaction is represented as a pair of URIs: one URI for the type and one URI for the value. If more than one business transaction of the same type is included, then this event does <u>not</u> specify which objects in the epclist are associated with which business transaction. Optionally, the shipper may include one or more <i>Shipping Transaction Detail</i> events to associate specific objects with each business transaction.	Optional from an EPCIS standard perspective, however, certain regulations and business agreements may require the use for PO, Delivery Number, Invoice or other ID's.
<b>sourceList</b>	Required		List of sources	Each source in the sourceList is a pair of URIs: one URI for the type and one URI for the value. The sourceList shall include one source of type urn:epcglobal:cbv:sdt:owning_party and another source of type urn:epcglobal:cbv:sdt:location. <ul style="list-style-type: none"> <li>The source value with source type of urn:epcglobal:cbv:sdt:owning_party is the EPC Pure Identity URI for the GLN of the transferring party.</li> <li>The source value with source type of urn:epcglobal:cbv:sdt:location is the EPC Pure Identity URI of the ship-from GLN.</li> </ul>	Optional in the EPCIS standard but required in this guideline to provide party information for DSCSA.

				Each GLN URI must match one of the companies in the company master data list.	
<b>destinationList</b>	Required		List of destinations	<p>Each destination in the destinationList is a pair of URIs: one URI for the type and one URI for the value. The destinationList shall include one destination of type urn:epcglobal:cbv:sdt:owning_party and another destination of type urn:epcglobal:cbv:sdt:location.</p> <ul style="list-style-type: none"> <li>The destination value with destination type of urn:epcglobal:cbv:sdt:owning_party is the EPC Pure Identity URI for the GLN of the transfer-to party.</li> <li>The destination value with destination type of urn:epcglobal:cbv:sdt:location is the EPC Pure Identity URI of the ship-to GLN.</li> </ul> <p>Each GLN URI must match one of the companies in the company master data list.</p>	Optional in the EPCIS standard but required in this guideline to provide party information for DSCSA.

\*If blank, then the typical value

## 2.2 Exception 1-1B: Overage discovered at Buyer location - Buyer sends back unexpected product

Definition: Buyer orders two cases of a product from Seller. The Seller processes the order, but three cases are delivered to the Buyer. The EPCIS *Shipping* event documents that two cases were shipped. It is agreed by the parties that the Buyer will send back the extra case to the Seller.

 **Note:** In this scenario the Buyer is sending back the unexpected product. No DSCSA EPCIS transaction data will be exchanged as part of the resolution. Since this document identifies only exceptions related to DSCSA exchanges, the process is not modeled.

- XML examples: [Exception 1-1B: Overage discovered at receiving -- Buyer refuses or returns unexpected product](#)

**Table 2-44** Business Process Steps for Exception 1-1B where Buyer sends back the unexpected product

Scenario	Example Resolution Steps	Example Resolution
Overage discovered at receiving - Buyer sends back the unexpected product	1. Buyer places order for two cases.	Buyer notifies Seller of issue and sends back the overage.
	2. Seller processes the order for two cases.	
	3. Due to Seller’s mistake, three cases are shipped to the Buyer.	
	4. Three cases arrive at the Buyer’s location.	
	5. Two cases have DSCSA EPCIS data and are received into inventory by Buyer.	
	6. Buyer quarantines the one case without DSCSA data.	
	7. Buyer notifies Seller of the overage, provides all essential serialized data representing the overage, and any other necessary information. The Buyer informs Seller that they want to send back the extra case.	
	8. Seller investigates the one case discrepancy.	
	9. Buyer sends back the one case that is without DSCSA EPCIS data. Note: Since this document identifies only exceptions related to DSCSA exchanges, the process of sending back the overage is not modeled. No DSCSA EPCIS transaction data will be exchanged as part of the resolution.	
	10. Seller receives overage case returned by Buyer.	

Disclaimer: Sequence and resolution steps may be different based your operational process. These examples are illustrative only and not comprehensive.

**Table 2-5** Narrative Table for Exception 1-1B where Buyer sends back the unexpected product



Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SNs 123, 456, 789)</p>		
S1			Buyer places order for two cases. Buyer provides 2 POs for the order (PO XYZ567, PO XYZ444).
S2	Seller processes order for two cases.		
S3	<p>Seller ships three cases by mistake. Physical shipment has SN 123, 456, and 789. Seller's IT system reflects only SN 123, 456 have been shipped.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E3: Commissioning</b> (pallet 100)  <b>E4: Packing</b> (case SNs 123, 456 to pallet 100)  <b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and PO# XYZ444 covers case SN 456.  <b>E6: Shipping</b> (pallet 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456, 789</p> <p><b><u>EPCIS:</u></b>  <b>E1: Commissioning</b> (case SNs 123, 456 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123, 456)  <b>E3: Commissioning</b> (pallet 100)  <b>E4: Packing</b> (case SNs 123, 456 to pallet 100)  <b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444)  <b>E6: Shipping</b> (pallet 100)</p>	
S4			Pallet 100 with three cases arrive at Buyer's dock: SN 123, 456, 789.

Step	Seller	Transfer	Buyer
S5			<p>Buyer receives case SNs 123, and 456, but cannot receive case SN 789 because there is no data.</p> <p><b>EPCIS event(s) created:</b>  <b>E7: Receiving</b> (pallet 100)</p> <p><b>E8: Unpacking</b> (pallet 100)</p> <p><b>E9: Inferred Receiving of contents</b> for cases (Aggregation (case 123), Aggregation (case 456))</p>
S6			Buyer quarantines case SN 789 because there is no DSCSA data.
S7			Buyer notifies Seller of the overage, provides all essential serialized data representing the overage, and any other necessary information. The Buyer informs Seller that they want to send back the extra case.
S8	Seller investigates discrepancy for case SN 789. The result of the investigation is that case SN 789 is legitimate and was shipped by mistake.		
S9		<p>Buyer → Seller</p> <p><b>Physical:</b> case SN 789</p>	Buyer sends back the one case that is without DSCSA EPCIS data. Since this document identifies only exceptions related to DSCSA exchanges, there will be no EPCIS message exchange for this return.
S10	The Seller receives overage case SN 789 returned by the Buyer.		

### 2.3 Exception 1-2: Traceability data contains incorrect lot information for entire shipment

**Definition:** Buyer orders two cases of a product from the Seller. The Seller processes the order. Two cases shipped by the Seller physically arrive at Buyer's location marked with Lot number "XYZ". The accompanying traceability EPCIS *Commissioning* events reflect a different Lot number value than what is marked on the product that arrived. While the *Packing* and *Shipping* events are valid, the Buyer is unable to receive the products into inventory until the correct Lot number is reflected in the supporting *Commissioning* events.

**Resolution Summary:**

This is viewed as a Quality event and would be resolved based on the dialogue, collaboration, and/or investigation between the impacted trading partners.

This is an illustrative example only to demonstrate a possible method to correct the EPCIS events, including a *Commissioning* event as agreed upon between trading partners during the resolution process

**Seller Action:** For the Buyer to keep the shipment, the Seller archives the original event and sends all necessary DSCSA events in a single document including the corrected *Commissioning* event with the ability for the receiver to accept duplicative data

- Systems will need to be enabled with the ability to receive and consume the same serialized identifiers more than once as applicable. This may be role dependent and not applicable to those parties that are the creator of the commissioning file.

**Buyer Action:** Physically receive product and process event data for shipment.

- XML examples: [Exception 1-2: Traceability data contains incorrect lot information for entire shipment](#)

**Table 2-6** Business Process Steps for Exception 1-2 where traceability data contains incorrect lot information for entire shipment

Scenario	Example Resolution Steps	Example Resolution
Traceability data contains incorrect lot number for entire shipment	1. Buyer places order for two cases.	Seller sends all necessary DSCSA events in a single document including the corrected Commissioning event with updated lot information.
	2. Seller processes order for two cases.	
	3. Seller ships two cases from Lot# "XYZ". Seller's IT system mistakenly records the <i>Commissioning</i> event with Lot# "ABC".	
	4. Two cases arrive at Buyer's location: SN 123, 456. Both cases are physically marked with Lot# "XYZ".	
	5. Buyer quarantines both cases because the Lot number in the EPCIS <i>Commissioning</i> event (Lot# "ABC") does NOT match the Lot number physically marked on the product (Lot# "XYZ").	
	6. Buyer notifies Seller of incorrect Lot data in EPCIS <i>Commissioning</i> event.	

Scenario	Example Resolution Steps	Example Resolution
	7. Seller investigates Lot number discrepancy. The case SNs are legitimate, and it was found that the incorrect Lot was recorded in the Seller's <i>Commissioning</i> event.	
	8. Seller issues new <i>Commissioning</i> event with all required data. The <i>Commissioning</i> event date will be the same as the original <i>Commissioning</i> event.	
	9. Seller sends new EPCIS document with corrected lot number in <i>Commissioning</i> event, and supporting <i>Packing, Transaction and Shipping</i> events.	
	10. Upon receipt of EPCIS event data supporting the physical shipment, Buyer transfers products from quarantine and receives products into inventory.	

**Table 2-7** Narrative Table for Exception 1-2

Step	Seller	Transfer	Buyer
<b>S0</b>	<p>Previous to this use case, Seller has serialized inventory on hand, including two serialized cases with SN 123 and 456. Both cases are marked with lot # XYZ.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123, 456 with Lot# ABC)</p> <p><b>E2: Packing</b> (two events: lowest saleable unit SNs to case SNs 123, 456)</p>		
<b>S1</b>			Buyer places order for two cases. Buyer provides 2 POs for the order (PO XYZ567, PO XYZ444).
<b>S2</b>	Seller processes order for two cases.		

Step	Seller	Transfer	Buyer
S3	<p>Seller ships two cases from Lot# XYZ. Physical shipment contains SN 123 and 456. Seller's IT system incorrectly records <i>Commissioning</i> events for both cases assigning them to Lot# ABC instead of Lot# XYZ.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and PO# XYZ444 covers case SN 456</p> <p><b>E6: Shipping</b> (pallet 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456 of Lot# XYZ</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SNs 123, 456 including relevant lowest saleable unit SNs) Lot# ABC</p> <p><b>E2: Packing</b> (for case SNs 123, 456)</p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and PO# XYZ444 covers case SN 456</p> <p><b>E6: Shipping</b> (pallet 100)</p>	
S4			<p>Pallet 100 with two cases arrive at Buyer's dock: SN 123, 456. Both are from Lot# XYZ.</p> <p>Buyer receives and unpacks the pallet.</p> <p><b>E7: Receiving</b> (pallet 100)</p> <p><b>E8: Unpacking</b> (pallet 100)</p>
S5			<p>Buyer quarantines case SNs 123 and 456 because Lot# ABC in the EPCIS <i>Commissioning</i> events does NOT match Lot# XYZ on the physical products.</p>
S6			<p>Buyer notifies Seller of incorrect lot data in EPCIS <i>Commissioning</i> events.</p>
S7	<p>Seller investigates lot number discrepancy for case SNs 123 and 456. The result of the investigation is that case SNs 123 and 456 are legitimate and the incorrect lot was recorded in the Seller's <i>Commissioning</i> events.</p>		

Step	Seller	Transfer	Buyer
S8	<p>Seller issues new <i>Commissioning</i> events with all required data and correct lot number.</p> <p><b>E1: Updated Commissioning</b> (case SNs 123 and 456 including relevant lowest saleable unit SNs with corrected Lot #XYZ in ilmd segment). Note: The <i>Commissioning</i> event date will be the same as the original <i>Commissioning</i> event.</p>		
S9	<p>Seller sends new EPCIS document with corrected lot number in <i>Commissioning</i> event, and supporting <i>Packing</i>, <i>Transaction</i> and <i>Shipping</i> events.</p> <p><b>E09: Commissioning</b> (pallet 200)</p> <p><b>E10: Packing</b> (case SNs 123, 456 to pallet 200)</p> <p><b>E11: Shipping</b> (pallet 200)</p>	<p>Seller → Buyer</p> <p><b>EPCIS:</b></p> <p><b>E1: Updated Commissioning</b> (case SNs 123 and 456 including relevant lowest saleable unit SNs with Lot #XYZ)</p> <p><b>E2: Packing</b> (two events: lowest saleable unit SNs to case SNs 123, 456)</p> <p><b>E09: Commissioning</b> (pallet 200)</p> <p><b>E10: Packing</b> (case SNs 123, 456 to pallet 200)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and PO# XYZ444 covers case SN 456</p> <p><b>E11: Shipping</b> (pallet 200)</p>	
S10			<p>Buyer now receives case SNs 123 and 456.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E12: Receiving</b> (pallet 200, case SNs 123, 456)</p> <p><b>E13: Unpacking</b> (pallet 200)</p> <p><b>E14:</b> Inferred Receiving of contents for cases Aggregation (case 123), Aggregation (case 456)</p>


## 2.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells extra product to Buyer

**Definition:** Buyer orders one case of a product from Seller. Seller processes the order. Using inference to confirm receipt of the entire case, the quantity of units in the case are implied by the Buyer. Buyer receives case into inventory. Buyer subsequently discovers an additional unit in the case. This scenario presents a concealed overage that is not uncovered until after products have been received into inventory using inferred aggregation. Buyer notifies Seller of the extra product, one additional lowest saleable unit. It is agreed by the parties that the Buyer will keep the unit.

### Resolution Summary:

**Seller Action:** For the Buyer to keep the extra unit, the Seller creates and sends a Shipping event for the additional item that was inadvertently shipped.

- Send all necessary EPCIS events related to the overage, the additional item.
- Create a new shipping event for the overage which would include a new SSCC.

 **Note:** For Shipping event extensions, the extension fields may also be included in the EPCIS Shipping event (e.g., `directPurchase`, `dropShipment`, `receivedDirectPurchaseFromPrevWhlsDist`) and would expect the values to be aligned with what was conveyed in the initial Shipping event.

### Buyer Action:

- Physically receive product and process event data for additional item.
- XML examples: [Exception 1-3A: Quantity inference problem \(concealed overage\) -- Seller decides to sell extra product](#)

**Table 2-8** Business Process Steps for Exception 1-3A where Seller decides to sell extra product to Buyer

Scenario	Example Resolution Steps	Example Resolution
<b>Quantity Inference Problem (Concealed Overage) – Seller decides to sell extra product that Buyer agrees to keep.</b>	1. Buyer places order for one case.	Seller provides additional DSCSA data to Buyer enabling Buyer to retain extra lowest saleable unit.
	2. Seller processes order for one case.	
	3. One case arrives at the Buyer’s location.	
	4. Buyer receives one case containing 12 lowest saleable units and infers the inner serial numbers are correct.	
	<del>5. Buyer receives the one case of 12 units into inventory.</del>	
	5. Upon opening and unpacking the case, the Buyer discovers there are 13 serialized units inside instead of 12.	
	6. Buyer quarantines the extra unit without DSCSA data.	
	7. Buyer notifies the Seller of overage with SGTIN and requests to keep the extra unit	
	8. Seller decides to sell the extra unit with correct serial number to Buyer. Seller issues <i>Commissioning</i> and <i>Shipping</i> events to support the extra unit.	
9. Seller provides supplemental data file with supporting events for the extra unit. in which the shipment date is the timestamp of the new <i>Shipping</i> event as well as the transaction date in addition to all necessary event data related to the additional case.		

Scenario	Example Resolution Steps	Example Resolution
	10. Upon receiving the supporting DSCSA event data for the extra product, the Buyer now receives the unit into inventory.	

**Table 2-9** Narrative Table for Exception 1-3A where Seller decides to sell extra product to Buyer

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)  <b>E2: Packing</b> (one event: 12 lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer places order for one case. Buyer provides PO for the order (PO XYZ567).
S2	<p>Seller processes order for one case. Seller physically ships one case thinking there are twelve serialized lowest saleable units in the case. Actually, case SN 123 was physically packed with 13 lowest saleable units. Seller's IT system reflects there are only 12 serialized lowest saleable units in case SN 123. In reality, there are 13 lowest saleable units.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SNs 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> shipper case containing case SN 123</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SN 123)  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SNs 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	
S3			One shipper case containing case SN 123 arrives at Buyer's dock.



Step	Seller	Transfer	Buyer
S4			<p>Buyer receives case SN 123 with inferred quantity of 12.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (shipper case 100) )</p> <p><b>E7: Unpacking</b> (shipper case 100)</p> <p><b>E8: Inferred Receiving of contents for case Aggregation</b> (case 123)</p>
S5			<p>Buyer opens up case SN 123 and discovers there are thirteen SNs inside. SN 112 is unexpectedly found inside.</p> <p><b>EPCIS event(s) created:</b>  <b>E9: Unpacking</b> (case SN 123)</p>
S6			<p>Buyer quarantines extra lowest saleable unit SN 112 because there is no DSCSA supporting data.</p>
S7			<p>Buyer notifies Seller of overage of SN 112 and requests to keep the extra unit using the same PO XYZ567.</p>
S8	<p>Seller investigates SN 112, the extra serialized lowest saleable unit found inside case. The result of the investigation is that SN 112 is legitimate and was shipped by mistake. Since the Buyer wants to keep SN 112, the Seller retrieves <i>Commissioning for SN 112</i> and creates a <i>Shipping</i> event to support SN 112.</p> <p><b>EPCIS event(s) created:</b>  <b>E10: Commissioning</b> (shipper case 200)</p> <p><b>E11: Packing</b> (case SNs 112 to shipper case 200)</p> <p><b>E12: Shipping</b> (shipper case 200)</p>		

Step	Seller	Transfer	Buyer
S9	Seller provides supplemental data file with supporting events for the extra unit.	Seller → Buyer  <b>EPCIS:</b> <b>E1: Commissioning</b> (lowest saleable unit SN 112)  <b>E10: Commissioning</b> (shipper case 200)  <b>E11: Packing</b> (lowest saleable unit 112 to shipper case 200)  <b>E12: Shipping</b> (shipper case 200)	
S10			Buyer now receives lowest saleable unit SN 112.  <b>EPCIS event(s) created:</b>  <b>E13: Receiving</b> (shipper case 200)  <b>E14: Unpacking</b> (shipper case 200)

## 2.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks Buyer to return extra product

Definition: Buyer orders one case of product from Seller. Seller processes the order. Using inference to confirm receipt of the entire case, the quantity of units in the case are implied. Buyer receives case into inventory. The case is kept intact and shipped to a customer of the Buyer. Buyer’s customer receives the case into inventory using inference. Buyer’s customer subsequently discovers an additional unit upon opening and unpacking of the case. This scenario presents a concealed overage that is not uncovered until after products have been received into inventory using inferred aggregation. Buyer notifies Seller of the extra product, one additional lowest sellable unit. It is agreed by the parties that the Buyer will arrange for the extra product to be sent back to the Seller.

- ✔ **Note:** In this scenario the Buyer is sending back the unexpected product. No DSCSA EPCIS transaction data will be exchanged as part of the resolution. Since this document identifies only exceptions related to DSCSA exchanges, the process is not modeled.
- XML examples: [Exception 1-3B: Quantity inference problem \(concealed overage\) -- Seller asks Buyer to return the product](#)
- ✔ **Note:** Since this scenario depicts an extended supply chain distribution model, there are 2 selling parties and 2 purchasing parties:
  - Seller1 is the original selling party.
  - Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
  - Buyer1 is the original party who purchased from Seller1.
  - Buyer2 is Buyer1’s customer.

**Table 2-10** Business Process Steps for Exception 1-3B where Seller asks Buyer to return the product

Scenario	Example Resolution Steps	Example Resolution
Quantity inference problem (Concealed Overage) – Seller asks Buyer to arrange for product to be sent back to Seller	1. Buyer1 places order for one case.	Buyer returns the unexpected extra lowest saleable unit found inside the case to the Seller.
	2. Seller1 processes order for one case.	
	3. One case arrives at the Buyer1’s location.	
	4. Buyer1 receives one case containing 12 lowest saleable units and infers the inner serial numbers are correct.	
	5. Buyer2, the Buyer’s customer, places order for one case.	
	6. Seller2 processes order for one case and ships the case received above to their customer.	
	7. Seller2 sends Buyer2 the EPCIS file with supporting DSCSA data for the one case shipped to the Buyer’s customer.	
	8. Buyer2 receives one case. Upon opening and unpacking the case, the Buyer2 discovers there are 13 serialized units inside instead of 12.	
	9. Buyer2 quarantines the extra unit without DSCSA data.	

Scenario	Example Resolution Steps	Example Resolution
	10. Buyer2 notifies the Seller2 of overage with SGTIN and necessary information.	
	11. It is agreed by the parties that the Buyer2 will arrange for the extra product to be sent back to Seller2. Buyer2 returns extra lowest saleable unit to the Seller2.	
	12. Seller2 quarantines the returned product without DSCSA data and works with Seller1 on resolution.	

**Table 2-11** Narrative Table for Exception 1-3B where Seller asks Buyer to return the product

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller1 has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)  <b>E2: Packing</b> (one event: lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer1 places order for one case. Buyer1 provides PO for the order (PO XYZ567).
S2	<p>Seller1 processes order for one case. Seller1 physically ships one case thinking there are twelve serialized lowest saleable units in the case. Actually, case SN 123 was physically packed with 13 lowest saleable units. Seller's IT system reflects there are only 12 serialized lowest saleable units in case SN 123. In reality, there are 13 lowest saleable units.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SNs 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller1 → Buyer1</p> <p><b>Physical:</b> shipper case 100 containing case SN 123</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123)  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SNs 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	
S3			One shipper case containing case SN 123 arrives at Buyer1's dock.

Step	Seller	Transfer	Buyer
S4			<p>Buyer1 receives case SN 123 with inferred quantity of 12.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (shipper case 100)  <b>E7: Unpacking</b> (shipper case 100)  <b>E8: Inferred Receiving of contents for cases Aggregation</b> (case 123)</p>
S5			<p>Buyer2 places order for one case. Buyer2 provides Seller2 with PO for the order (PO ACC711).</p>
S6	<p>Seller2 processes order for one case and ships case SN 123 to Buyer2.</p> <p><b>EPCIS event(s) created:</b>  <b>E9: Commissioning</b> (shipper case 300)  <b>E10: Packing</b> (case SNs 123 to shipper case 300)  <b>E11: Shipping</b> (shipper case 300)</p>		
S7		<p>Seller1 → Buyer2</p> <p><b>Physical:</b> shipper case 300 containing case SN 123</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123)  <b>E9: Commissioning</b> (shipper case 300)  <b>E10: Packing</b> (case SNs 123 to shipper case 300)  <b>E11: Shipping</b> (shipper case 300)</p>	

Step	Seller	Transfer	Buyer
S8			<p>Buyer2 receives and unpacks shipper case 300.</p> <p>Buyer2 opens case SN 123 and discovers there are thirteen SNs inside. SN 112 is unexpectedly found inside.</p> <p><b>EPCIS event(s) created:</b>  <b>E12: Receiving</b> (shipper case 300)  <b>E13: Unpacking</b> (shipper case 300)</p>
S9			Buyer2 quarantines extra lowest saleable unit SN 112 because there is no DSCSA supporting data.
S10			Buyer2 notifies Seller2 of overage.
S11		<p>Buyer2 → Seller2</p> <p><b>Physical:</b> lowest saleable unit, SN 112</p>	Buyer2 returns extra lowest saleable unit SN 112.
S12	Seller2 quarantines the returned product without DSCSA data and works with Seller1 on resolution.		

## 2.6 Exception 1-4A: Incorrect traceability data – Sold-to information in *Shipping* event is incorrect

**Definition:** Buyer orders three cases of a product from Seller. The Seller processes the Buyer’s order for three cases. Seller transmits the EPCIS file to the correct Buyer but there is an incorrect destination owning party GLN (that does not represent this organization of the Buyer) in the *Shipping* event. The file fails. While the three cases arrive at the correct Buyer location, the Buyer cannot receive the serialized product without the correct supporting DSCSA transaction data due to the file failing. Buyer quarantines the three cases of serialized product. The Seller transmits a corrected EPCIS *Shipping* event with the correct destination owning party GLN that identifies the appropriate sold-to party. Upon receipt of the corrected EPCIS *Shipping* event, the Buyer receives the three cases into inventory.

**Resolution Summary:**

**Seller Action:** For the Buyer to receive the shipment into inventory, the seller creates a *Shipping* event with the correct GLN for the destination owning party. Send all necessary EPCIS events related to the shipment including the corrected *Shipping* event.

- To process the corrected *Shipping* event, the Seller must make the product available in inventory again by the method of their internal system.

**Buyer Action:** Physically receive product and process event data for shipment.

- XML examples: [Incorrect traceability data – Sold-to information in Shipping event is incorrect](#)

**Table 2-12** Business Process Steps for Exception 1-4A where Sold-to information in *Shipping* event is incorrect

Scenario	Example Resolution Steps	Example Resolution
<p><b>Incorrect traceability data - Shipping event contains incorrect Sold-to information</b></p>	<p>1. Buyer places an order for three cases to their ship-to location "ABC".</p>	<p>Seller sends all necessary DSCSA events in a single document including the corrected <i>Shipping</i> event, which resolves the incorrect GLN, destination owning party.</p>
	<p>2. Seller processes Buyer’s order for three cases to location "ABC".</p>	
	<p>3. Seller ships three cases, transmits the correct <i>Commissioning</i> and <i>Packing</i> EPCIS events, and an incorrect <i>Shipping</i> event with incorrect destination owning party GLN (that does not represent this organization of the Buyer).</p>	
	<p>4. Three cases arrive at the Buyers dock.</p>	
	<p>5. While the destination location correctly reflects the ship-to location, the Buyer cannot receive the three cases since the destination owning party is a DSCSA required field to reflect the party to whom ownership is being transferred. Buyer quarantines three cases</p>	
	<p>6. Buyer notifies Seller of the discrepancy.</p>	
	<p>7. Seller creates new <i>Transaction</i> and <i>Shipping</i> events with the correct destination owning party.</p>	
	<p>8. Seller sends in a single file all the supporting events for the three cases including the corrected <i>Transaction</i> and <i>Shipping</i> events with the correct destination owning party GLN that identifies the appropriate sold-to party.</p>	

Scenario	Example Resolution Steps	Example Resolution
	9. Upon receipt of EPCIS event data with corrected destination owning party in the <i>Shipping</i> event, the Buyer transfers the three cases from quarantine and receives them into inventory.	

**Table 2-13** Narrative Table for Exception 1-4A Sold-to information in *Shipping* event is incorrect

Step	Seller	Transfer	Buyer
<b>S0</b>	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b><u>EPCIS event(s) created:</u></b></p> <p><b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)</p> <p><b>E2: Packing</b> (four events: lowest saleable unit SNs to case SN 123, 456, 789)</p>		
<b>S1</b>			Buyer places order for three cases. Buyer provides 2 POs for the order (PO XYZ567, PO XYZ444).
<b>S2</b>	Seller processes order for three cases.		



Step	Seller	Transfer	Buyer
S3	<p>Seller ships three cases. Physical shipment has SN 123, 456, and 789. While the Seller's system generates correct commissioning and packing events, the Shipping event reflects the correct destination location but incorrect destination owning party.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456, and 789 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and 789; PO# XYZ444 covers case SN 456.</p> <p><b>E6: Shipping</b> (pallet 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SNs 123, 456, 789</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SNs 123, 456, 789 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123, 456, 789)</p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456, and 789 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444)</p> <p><b>E6: Shipping</b> (pallet 100)</p>	
S4			Pallet 100 with three cases arrive at Buyer's dock: SN 123, 456, 789.
S5			Buyer is unable to receive the products because of incorrect destination owning party in the Shipping event. Buyer quarantines three cases .
S6			Buyer notifies Seller of <i>Shipping</i> event discrepancy.

Step	Seller	Transfer	Buyer
S7	<p>Seller investigates <i>Shipping</i> event discrepancy and creates new <i>Transaction</i> and <i>Shipping</i> events with the correct destination owning party GLN.</p> <p><b><u>EPCIS event(s) created:</u></b></p> <p><b>E5: Transaction events updated with correct Sold-To GLN identifier associated with the PO bizTransactions</b> (PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and 789; PO# XYZ444 covers case SN 456.</p> <p><b>E7: Commissioning</b> (pallet 300)</p> <p><b>E8: Packing</b> (case SNs 123, 456, and 789 to pallet 300)</p> <p><b>E9: Shipping</b> (pallet 300) with correct destination owning party</p>		

Step	Seller	Transfer	Buyer
S8	<p>Seller sends in a single file all the supporting events for the three cases including the corrected <i>Shipping</i> event with the correct destination owning party GLN that identifies the appropriate sold-to party.</p>	<p>Seller → Buyer</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SNs 123, 456, 789 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123, 456, 789)</p> <p><b>E7: Commissioning</b> (pallet 300)</p> <p><b>E8: Packing</b> (case SNs 123, 456, and 789 to pallet 300)</p> <p><b>E5: Transaction events updated with correct Sold-To GLN identifier associated with the PO bizTransactions</b> (PO XYZ567, PO XYZ444)</p> <p><b>E9: Shipping</b> (pallet 300) with correct destination owning party</p>	
S9			<p>Buyer transfers the three cases from quarantine and receives them into inventory.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E10: Receiving</b> (pallet 300)</p> <p><b>E11: Unpacking</b> (pallet 300)</p> <p><b>E12: Inferred Receiving</b> of contents for case SNs 123, 456, and 789</p>

## 2.7 Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping event is incorrect

**Definition:** Buyer orders three cases of a product from Seller. The Seller processes the Buyer’s order. Seller transmits an incorrect *Shipping* event that reflects neither a correct destination location party GLN nor a GLN representing the intended organization. While the shipment of three cases arrives at the correct Buyer location, the Buyer decided not to receive the serialized product without the correct supporting DSCSA transaction data pursuant to a business decision based upon company policy. Buyer quarantines the serialized products until the Seller transmits a corrected EPCIS Shipping event with the correct destination location party. Upon receipt of the corrected EPCIS Shipping event, the Buyer receives the products into inventory.

**Resolution Summary:**

**Seller Action:** For the Buyer to receive the shipment into inventory, the Seller creates and sends a *Shipping* event with the correct GLN for the destination location party, Ship-to.

- Send all necessary EPCIS events related to the shipment.
- To process the corrected shipment, the Seller must make the product available in inventory again by the method of their internal system.

**Buyer Action:** Physically receive product and process event data for shipment.

- XML examples: [Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping event is incorrect](#)

**Table 2-14** Business Process Steps for Exception 1-4B where *Shipping* event contains incorrect Ship-to information

Scenario	Example Resolution Steps	Example Resolution
<b>Incorrect traceability data - Shipping event contains incorrect Ship-to information</b>	1. Buyer places an order for three cases to be shipped to their ship-to location "ABC".	Seller sends all necessary DSCSA events in a single document including the corrected Shipping event, which resolves the incorrect GLN, destination location party.
	2. Seller processes Buyer’s order for three cases	
	3. Seller ships three cases to Buyer’s location "ABC." Seller transmits the correct <i>Commissioning</i> and <i>Packing</i> events but sends the incorrect <i>Shipping</i> event that lists the Ship-to location in the destination location as "XYZ" instead of "ABC".	
	4. Three cases arrive at location "ABC".	
	5. Buyer quarantines the three cases due to lack of supporting EPCIS <i>Shipping</i> event data.	
	6. Buyer notifies the Seller of the Ship-to discrepancy in the <i>Shipping</i> event.	
	7. Seller creates a new <i>Shipping</i> event listing "ABC" as the correct Ship-to party in the destination location.	
	8. Seller sends in a single file all the supporting events for the three cases including the corrected <i>Shipping</i> event with the correct destination location GLN that identifies the appropriate ship-to location.	

Scenario	Example Resolution Steps	Example Resolution
	9. Upon receipt of EPCIS event data with corrected destination location in the <i>Shipping</i> event, the Buyer transfers the three cases from quarantine and receives them into inventory.	

**Table 2-15** Narrative Table for Exception 1-4B where *Shipping* event contains incorrect Ship-to information

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.  <u>EPCIS event(s) created:</u> <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789) <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123, 456, 789)		
S1			Buyer ABC places order for three cases. Buyer provides 2 POs for the order (PO XYZ567, PO XYZ444).
S2	Seller processes ABC's order for three cases.		


Step	Seller	Transfer	Buyer
S3	<p>Seller ships three cases. Physical shipment has SN 123, 456, and 789. While the physical products go to ABC's distribution center, the Seller's system records that the Ship-to entity in the <i>Shipping</i> event is XYZ instead of ABC.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456, and 789 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and 789; PO# XYZ444 covers case SN 456.</p> <p><b>E6: Shipping</b> (pallet 100) with destination location as XYZ</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SNs 123, 456, 789</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SNs 123, 456, 789 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123, 456, 789)</p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456, and 789 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and 789; PO# XYZ444 covers case SN 456.</p> <p><b>E6: Shipping</b> (pallet 100) with destination location as XYZ</p>	
S4			Pallet 100 with three cases arrive at Buyer's dock: SN 123, 456, 789
S5			Buyer quarantines the three cases, SNs 123, 456, and 789, because the <i>Shipping</i> event incorrectly states XYZ as the Ship-to instead of ABC.
S6			Buyer notifies Seller of the Ship-to discrepancy in the <i>Shipping</i> event.

Step	Seller	Transfer	Buyer
S7	<p>Upon investigating the discrepancy in the <i>Shipping</i> event, the Seller determines that the shipment of SN 123,456 and 789 to ABC is legitimate but the previously recorded <i>Shipping</i> event data is flawed. The Seller creates a new <i>Shipping</i> event with correct destination location, ABC, as Ship-to.</p> <p><b><u>EPCIS event(s) created:</u></b></p> <p><b>E7: Commissioning</b> (pallet 300)</p> <p><b>E8: Packing</b> (case SNs 123, 456, and 789 to pallet 300)</p> <p><b>E9: Shipping</b> (pallet 300) with destination location as ABC</p>		
S8	<p>Seller sends in a single file all the supporting events for the three cases including the corrected <i>Shipping</i> event with the correct destination location party GLN that identifies the appropriate ship-to party</p>	<p>Seller → Buyer</p> <p><b><u>EPCIS:</u></b></p> <p><b>E1: Commissioning</b> (case SNs 123, 456, 789 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123, 456, 789)</p> <p><b>E7: Commissioning</b> (pallet 300)</p> <p><b>E8: Packing</b> (case SNs 123, 456, and 789 to pallet 300)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444)</p> <p><b>E9: Shipping</b> (pallet 300) with destination location as ABC</p>	

Step	Seller	Transfer	Buyer
S9			<p>Buyer transfers the three cases from quarantine and receives them into inventory.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E10: Receiving</b> (pallet 300)</p> <p><b>E11: Unpacking</b> (pallet 300)</p> <p><b>E12: Inferred Receiving</b> of contents for case SNs 123, 456, and 789</p>

## 2.8 Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong Receiver.

**Definition:** Buyer orders three cases of a product from Seller to be shipped to Buyer location "ABC." The Seller processes the Buyer's order. Seller has an incorrect Receiver listed in the EPCIS header (Company "XYZ") and transmits the EPCIS file to a Receiver outside the intended organization not affiliated with the Buyer. While the shipment of three cases arrives at the Buyer's "ABC" location, the Buyer cannot receive the serialized product without the supporting DSCSA transaction data. Buyer's "ABC" location quarantines the three cases of serialized product until the Seller transmits a corrected EPCIS file. Upon receipt of the corrected EPCIS file, Buyer's "ABC" location receives the products into inventory.

 **Note:** This exception could apply to situations where there is either an incorrect Sender or Receiver. This example demonstrates steps taken where the error is due to the incorrect Receiver being listed.

### Resolution Summary:

**Seller Action:** For the Buyer to receive the shipment into inventory, the Seller creates and sends a new EPCIS file with the correct GLN for the Receiver and sends all necessary EPCIS events related to the shipment.

**Buyer Action:** Physically receive product and process event data for shipment subsequent to receiving.

**Unintended Receiver Action:** The file may fail upon receipt or become a *Data with no Product* scenario.

- XML examples: [Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong Receiver.](#)

**Table 2-169** Business Process Steps for Exception 1-5 where Receiver in EPCIS header is incorrect, routed to the wrong Receiver

Scenario	Example Resolution Steps	Example Resolution
Receiver in the EPCIS header is incorrect – file is routed to incorrect Receiver	1. Buyer places an order for three cases to be shipped to their ship-to location "ABC."	A corrected EPCIS file is created to resolve the wrong GLN designating the correct Receiver of the file.
	2. Seller processes Buyer's order for three cases.	
	3. Seller ships three cases to Buyer's "ABC" location per the order but has listed the incorrect Receiver in the EPCIS header. The EPCIS file is sent to another company outside the intended organization.	
	4. Three cases arrive at Buyer location "ABC".	



Scenario	Example Resolution Steps	Example Resolution
	5. Buyer quarantines the three cases for lack of supporting EPCIS event data.	
	6. Buyer notifies Seller of the lack of DSCA transaction data.	
	7. Seller creates and sends a new EPCIS file listing "ABC" as the correct Receiver.	
	8. Buyer transfers three cases from quarantine and receives them into inventory.	

**Table 2-17** Narrative Table for Exception 1-5 where the Receiver in the EPCIS header is incorrect and file is routed to the wrong Receiver

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)</p> <p><b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123, 456, 789)</p>		
S1			Buyer ABC places order for three cases. Buyer provides 2 POs for the order (PO XYZ567, PO XYZ444).
S2	Seller processes order for three cases.		
S3	<p>Seller ships three cases to Buyer's "ABC" location per the order but has listed the incorrect Receiver in the EPCIS header. Consequently, the EPCIS file is sent to another company outside the intended organization.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456, and 789 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and 789; PO# XYZ444 covers case SN 456.</p> <p><b>E6: Shipping</b> (pallet 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SNs 123, 456, 789</p>	
S4			Pallet 100 with three cases arrive at Buyer's dock: SN 123, 456, 789.

Step	Seller	Transfer	Buyer
S5			Buyer quarantines cases SN 123, 457 and 789 because there is no DSCSA data to match the physical products.
S6			Buyer notifies Seller of missing DSCSA data.
S7	Upon investigating the reported missing traceability data, the Seller determines that the previous EPCIS file was incorrectly routed because of the incorrect receiver GLN in the header of the EPCIS file. Seller creates and sends a new EPCIS file listing "ABC" as the correct Receiver. Note that the supporting events for the shipment are unchanged.	<p>Seller → Buyer</p> <p><b><u>EPCIS:</u></b> <b><u>Receiver GLN in the EPCIS header is correctly set to ABC's GLN.</u></b></p> <p><b>E1: Commissioning</b> (case SNs 123, 456, 789 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123, 456, 789)</p> <p><b>E3: Commissioning</b> (pallet 100)</p> <p><b>E4: Packing</b> (case SNs 123, 456, and 789 to pallet 100)</p> <p><b>E5: Transaction events</b> (for PO XYZ567, PO XYZ444) PO# XYZ567 covers case SN 123 and 789; PO# XYZ444 covers case SN 456.</p> <p><b>E6: Shipping</b> (pallet 100)</p>	
S8			<p>Buyer transfers the three cases from quarantine and receives them into inventory.</p> <p><b><u>EPCIS event(s) created:</u></b> <b>E7: Receiving</b> (pallet 100)</p> <p><b>E8: Unpacking</b> (pallet 100)</p> <p><b>E9: Inferred Receiving</b> of contents for case SNs 123, 456, and 789</p>

## 2.9 Example 1-6: No DSCSA transaction data for an entire shipment is received due to a transmission issue

**Definition:** Buyer orders one case of a product from Seller. The Seller processes Buyer’s order. The Seller ships the serialized case to the Buyer and sends the supporting EPCIS events for DSCSA. The serialized case arrives at the Buyer’s dock, but the Buyer does not receive the supporting DSCSA event information. Buyer takes steps internally to confirm that their systems have not received and consumed the transaction information. The Buyer quarantines the case and contacts the Seller. Seller re-transmits the Commissioning, Packing and Shipping event supporting the physical shipment.

Resolution Summary:

**Seller Action:** For the Buyer to receive the shipment into inventory, the Seller resends the EPCIS file. No correction needed to the EPCIS file as the failure was due to a transmission issue.

- Send all necessary EPCIS events related to the shipment.

**Buyer Action:** Physically receive product and process event data for shipment.

- XML examples: [Exception 1-6: No DSCSA transaction data for an entire shipment is received due to a transmission issue](#)

**Table 2-21** Business Process Steps for Exception 1-6 where no traceability data is received

Scenario	Example Resolution Steps	Example Resolution
	1. Buyer places an order for one case.	
	2. Seller processes order for one case.	
	3. Seller ships one case to Buyer’s location and transmits supporting EPCIS data to the Buyer.	
	4. One case arrives at Buyer’s location but supporting EPCIS data is not received.	
	5. Buyer quarantines one case without traceability data. Buyer takes steps internally to confirm that their systems have not received and processed the transaction information.	
	6. Buyer notifies Seller of the missing traceability data and provides any applicable messages or information that would assist the Seller in reviewing the issue.	
	7. Seller investigates the cause of the failed transmission.	
	8. Seller re-transmits the corresponding Commissioning, Packing and Shipping event for the shipment.	
	9. Upon receipt of EPCIS supporting data, Buyer transfers the case from quarantine and receives it into inventory.	

**Table 2-22** Narrative Table for Exception 1-6 where no traceability data is received

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)  <b>E2: Packing</b> (one event: lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer places order for one case. Buyer provides PO for the order (PO XYZ567).
S2	Seller processes order for one case.		
S3	<p>Seller ships one case. Physical shipment contains SN 123. Seller's IT system records the Shipping event for SN 123 but fails to transmit corresponding EPCIS data to Buyer.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SN 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller → Buyer  <b>Physical:</b> shipper case 100 containing case SN 123</p> <p><b><u>EPCIS:</u></b>  <b>E1: Commissioning</b> (case SNs 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SN 123)  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SN 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	
S4			One case arrives at Buyer dock: SN 123.
S5			Buyer quarantines case SN 123 because there is no traceability data to match the physical product.
S6			Buyer notifies Seller of missing traceability data.
S7	Upon investigating the reported missing traceability data for SN 123, the Seller determines that a transmission error occurred. Seller IT	Seller → Buyer	

S8	system triggers a re-transmission of <i>Commissioning, Packing</i> and <i>Shipping</i> events corresponding to case SN 123.	<p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SNs 123 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123)</p> <p><b>E3: Commissioning</b> (shipper case 100)</p> <p><b>E4: Packing</b> (case SN 123 to shipper case 100)</p> <p><b>E5: Shipping</b> (shipper case 100)</p>	
			<p>Buyer now receives case SNs 123.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E6: Receiving</b> (shipper case 100)</p> <p><b>E7: Unpacking</b> (shipper case 100)</p> <p><b>E8: Inferred Receiving</b> of contents for case Aggregation (case 123)</p>

## 2.10 Exception 1-7: GLN incorrect in the file causing failure – the Sender has bad data

**Definition:** Buyer orders one case of a product from Seller. The Seller processes Buyer’s order. The serialized case is shipped to the Buyer along with the supporting EPCIS events for DSCSA. While the serialized case arrives at the Buyer’s dock, the supporting DSCSA event information contains the incorrect Buyer GLN and therefore fails in the Buyer’s system. The Seller shall update their system with the correct GLN and communicate such to the Buyer. Subsequently, the Seller regenerates the EPCIS document with the correct GLN. The Buyer quarantines the case until the Seller re-transmits the Commissioning, Packing and Shipping event supporting the physical shipment with the correct GLN.

### Resolution Summary:

**Seller Action:** For the Buyer to receive the shipment into inventory, the Seller re-transmits the EPCIS file with the correct GLN.

- Send all necessary EPCIS events related to the shipment.

**Buyer Action:** Physically receive product and process event data for shipment.

- XML examples: [Exception 1-7: GLN incorrect in the file causing failure – the Sender has bad data](#)

**Table 2-18** Business Process Steps for Exception 1-7 where Master Data is incorrect in the file causing the file to fail

Scenario	Example Resolution Steps	Example Resolution
Master Data is incorrect in the file causing the file to fail – the Sender has bad data	1. Buyer places an order for one case.	Seller corrects the master data, regenerates the supporting EPCIS file, and sends the updated file to enable the Buyer to receive the quarantined serialized products into inventory.
	2. Seller processes order for one case.	
	3. Seller ships one case to Buyer’s location but the file fails in the Buyer’s system because the Buyer’s GLN does not represent the organization of the Buyer in the master data of Seller’s system.	
	4. One case arrives at Buyer’s location.	
	5. Buyer quarantines one case without traceability data.	
	6. Buyer notifies Seller of the file failure.	
	7. Seller determines failed file is caused by incorrect master data, (incorrect Buyer GLN). Seller updates the Buyer GLN in the Seller’s system, regenerates and sends the updated EPCIS file with the corresponding <i>Commissioning, Packing and Shipping</i> events for the shipment using the correct Buyer GLN in the destination owning party.	
	8. Upon receipt of EPCIS supporting data, Buyer transfers the case from quarantine and receives it into inventory.	

**Table 2-24** Narrative Table for Exception 1-7 where Master Data is incorrect in the file causing the file to fail

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)  <b>E2: Packing</b> (one event: lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer places order for one case. Buyer provides PO for the order (PO XYZ567).
S2	Seller processes order for one case.		

S3	<p>Seller ships one case. Physical shipment contains SN 123.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SN 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> shipper case 100 containing case SN 123</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SNs 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SN 123)  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SN 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	
S4			One case arrives at Buyer's customer dock: SN 123.
S5			File fails in Buyer's system due to incorrect GLN in the EPCIS file. Buyer quarantines one case without traceability data.
S6			Buyer notifies Seller of file failure due to incorrect GLN.
S7	<p>Upon investigating the reported failed file for SN 123, the Seller determines that the Buyer's GLN is incorrect in their master data system. Seller updates master data with the correct GLN. Seller issues a new Shipping event with updated Buyer GLN information. The Seller generates and sends a new EPCIS file containing supporting EPCIS events with the EPCIS header section updated to reflect the correct Buyer GLN.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Commissioning</b> (shipper case 200)  <b>E7: Packing</b> (case SN 123 to shipper case 200)  <b>E8: Shipping</b> (shipper case 200)</p>	<p>Seller → Buyer</p> <p><b>EPCIS:</b>  EPCIS Header information is updated with correct Buyer GLN information,  <b>E1: Commissioning</b> (case SNs 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123)    <b>E6: Commissioning</b> (shipper case 200)  <b>E7: Packing</b> (case SN 123 to shipper case 200)  <b>E8: Shipping</b> (shipper case 200)</p>	
S8			Buyer now receives case SNs 123.

			<p>EPCIS event(s) created:</p> <p><b>E9: Receiving</b> (shipper case 200)</p> <p><b>E10: Unpacking</b> (shipper case 200)</p> <p><b>E11: Inferred Receiving</b> of contents for case Aggregation (case 123)</p>
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### 2.11 Exception 1-8: File failed due to missing Master Data in the Buyer’s system – the Receiver has an incorrect GTIN for the product

**Definition:** Buyer orders a case of a product from Seller. The Seller processes Buyer’s order. Based upon information available per previous orders, Buyer’s system reflects a GTIN for a case that contains six lowest saleable units. However, at the time the order was placed, the Seller’s GTIN for this product reflects a case configuration of twelve lowest saleable units per case. The serialized case is shipped to the Buyer along with the supporting EPCIS events for DSCSA. While the serialized case arrives at the Buyer’s dock, the supporting DSCSA event information contains an unrecognized GTIN and therefore fails in the Buyer’s system. Since the GTIN is unknown to the Buyer’s system, the Seller confirms and communicates the correct GTIN to the Buyer. The Buyer quarantines the case until it can re-process the Seller’s Commissioning, Packing and Shipping event data supporting the physical shipment.

**Resolution Summary:**

**Seller Action:** For the Buyer to receive the shipment into inventory, the Seller needs to communicate and align with Buyer on the correct GTIN reflecting the correct case configuration. No correction is needed to the EPCIS file as the failure was due to unknown master data in the Buyer’s system.

**Buyer Action:** Physically receive product, update master data, and re-process event data for shipment.

- XML examples: [Exception 1-8: File failed due to missing Master Data in the Buyer’s system – the Receiver has an incorrect GTIN for the product](#)

**Table 2-195** Business Process Steps for Exception 1-5 where no traceability data is received

Scenario	Example Resolution Steps	Example Resolution
File processing failed due to missing Master Data in the Buyer’s system – the Receiver has incorrect GTIN	1. Buyer places an order one case. At the time of the order the Buyer’s system contains a GTIN for the product that reflects 6 lowest saleable units per case.	Seller communicates the updated Master Data (GTIN). Buyer updates their master data and reprocesses EPCIS file enabling receipt of the serialized products into inventory.
	2. Seller processes the order. At the time of the order the Seller’s system contains a GTIN for the product that reflects 12 lowest saleable units per case.	
	3. Seller ships one case (containing 12 lowest saleable units) and transmits the supporting EPCIS data to the Buyer.	
	4. One case arrives at Buyer’s location.	



Scenario	Example Resolution Steps	Example Resolution
	5. Buyer quarantines one case without traceability data due to the file failing pursuant to the Buyer's system not recognizing the GTIN	
	6. Buyer notifies Seller of the master data issue with an unrecognized GTIN that causes the file to fail.	
	7. Seller communicates the case configuration change and resulting new GTIN.	
	8. Buyer's IT system is updated with new GTIN in its master data.	
	9. If Buyer system is able to reprocess the original file, the Buyer makes appropriate adjustments to enable them to reprocess and receive the case with the corresponding <i>Commissioning, Packing and Shipping</i> event for the shipment.	
	10. If the Buyer system cannot reprocess the original file, Seller re-transmits the original file with the corresponding <i>Commissioning, Packing and Shipping</i> event for the shipment.	
	11. Upon receipt of re-transmitted EPCIS supporting data (correct GTIN), Buyer transfers the case from quarantine and receives it into inventory.	

**Table 2-26** Narrative Table for Exception 1-8 where the file failed due to missing Master Data in the Buyer's system

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123 which contains 12 lowest saleable units.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)  <b>E2: Packing</b> (one event: lowest saleable unit SNs to case SN 123)</p>		
S1			<p>Buyer places order for 12 lowest saleable units which would equal one case.</p> <p>Buyer creates 1 PO for the order (PO XYZ567)</p>
S2	Seller processes order for one case.		
S3	<p>Seller ships one case. Physical shipment contains SN 123. Seller's IT system has correct GTIN in its master data.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (shipper case 100)</p>	<p>Seller → Buyer</p> <p>Physical: shipper case 100 containing case SN 123,</p> <p><b>EPCIS:</b></p>	

	<p><b>E4: Packing</b> (case SN 123 to shipper case 100)</p> <p><b>E5: Shipping</b> (shipper case 100)</p>	<p><b>E1: Commissioning</b> (case SNs 123 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SN 123)</p> <p><b>E3: Commissioning</b> (shipper case 100)</p> <p><b>E4: Packing</b> (case SN 123 to shipper case 100)</p> <p><b>E5: Shipping</b> (shipper case 100)</p>	
<b>S4</b>			One case arrives at Buyer dock: SN 123.
<b>S5</b>			Buyer quarantines case SN 123 because the EPCIS file fails to process because of unknown GTIN in the Buyer system.
<b>S6</b>			Buyer notifies Seller of file failure due to the GTIN.
<b>S7</b>	Upon investigating the file failure for case SN 123, the Seller determines that the case configuration change resulting in a new GTIN, which was not recorded in the Buyer's system causing the file to fail.		
<b>S8</b>			Buyer's IT system is updated with new GTIN in its master data.
<b>S9</b>			<p>[Situation 1] Buyer's system is able to reprocess the original EPCIS file sent with supporting Commissioning, Packing and Shipping events corresponding to case SN 123.</p> <p>Buyer now receives case SN 123.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (shipper case 100)</p> <p><b>E7: Unpacking</b> (shipper case 100)</p> <p><b>E8: Inferred Receiving</b> of contents for case Aggregation (case 123)</p>
<b>S10</b>	[Situation 2]: Since Buyer is unable to process original EPCIS file sent, the Seller re-transmits the original file with the corresponding Commissioning, Packing and Shipping event for the shipment.	<p>Seller → Buyer</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SN 123)</p> <p><b>E3: Commissioning</b> (shipper case 100)</p> <p><b>E4: Packing</b> (case SN 123 to shipper case 100)</p>	

<b>S11</b>		<b>E5: Shipping</b> (shipper case 100)	
			<p><u>Upon receipt of re-transmitted EPCIS supporting data (correct GTIN), Buyer transfers case SN 123 from quarantine and receives it into inventory.</u></p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (shipper case 100)  <b>E7: Unpacking</b> (shipper case 100)  <b>E8: Inferred Receiving</b> of contents for case Aggregation (case 123)</p>

 **Note:** The Global Data Synchronization Network™ (GDSN®) provides an efficient and effective approach to automate the sharing of product master data with supply chain partners versus a manual approach which could mitigate the exception illustrated above. The GDSN is a network of interoperable data pools connected by the GS1 Global Registry®. The GDSN-certified Data Pools store and manage supply chain information for their users, and the GS1 Global Registry connects those data pools together. The GDSN offers a continuous, automated approach to data management that promotes alignment of supply chain information among trading partners, increasing data accuracy, and driving costs out of the supply chain.

### 3 Exception Category 2: Data, No Product

The exceptions in Category 2 are exceptions in which the Buyer receives DSCSA data but not the corresponding product. The scenarios in Exception Category 2 are listed in the table below, and each scenario is covered individually in this chapter.

**Table 3-1** Exception Category 2 Scenarios

Category	Exception Scenario	Product and Data arrived together	Data Accurate*	Example Resolution
2 – Data with No Product	<b>Exception 2-1: Shortage discovered at Buyer</b> 2-1A: Buyer wants the missing product and within 24 hours 2-1B: Buyer wants the missing product and after 24 hours 2-1C: Buyer wants Purchase Order amended to exclude the missing product	N	N	2-1A: Ship Shortage, Data received is Advance TI 2-1B: Ship Shortage and send supplemental file 2-1C: Cancel the PO line item for the missing product
	<b>Exception 2-2: Quantity inference problem (concealed shortage)</b>	N	N	

	<p>2-2A: Buyer in Drop Shipment scenario wants the missing product and past 24 hours</p> <p>2-2B: Buyer in Drop Shipment scenario wants to cancel the missing product</p>	N	N	<p>2-2A: Ship Shortage, Error Declaration event</p> <p>2-2B: Error Declaration event</p>
	<p><b>Exception 2-3: Temporary Shipping Issue</b></p> <p>2-3A: Shipment is cancelled and shipped subsequently to Buyer</p>	N	N	<p>2-3A: Error Declaration event, Ship</p>
	<p><b>Exception 2-4: Undelivered or damaged shipment</b></p> <p>2-4A: Product is stolen</p> <p>2-4B: Product is lost</p>	N	Y	<p>2-4A: 3911 Process</p>
		N	Y	<p>2-4B: SOP for lost product is followed.</p>

### 3.1 Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing product- Correction made within 24 hours of the original shipment

**Definition:**

Buyer orders three cases from Seller. The Seller processes an order for three cases, but inadvertently ships only two cases\* to the Buyer. While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, the two cases that arrived are received into inventory by the Buyer. Seller ships the shortage (the third case from the original order), within 24 hours of the initial shipment and the Buyer treats the TI sent originally as Advance TI.

**Resolution:**

- Seller Action: Seller remediates the extra traceability data by physically shipping missing case.
  - Create a new shipment for the shortage which would include a SSCC.
  - Supplemental shipment must match SGTIN in the original file if the EPCIS file received is treated as Advance TI due to the correction occurring within 24 hours of the original shipment.
  - Send supplemental packing list and ASN.
- Buyer Action: Physically receive product using original events.
- XML examples: [Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing product- Correction made within 24 hours of the original shipment](#)

**Table 3-2** Business Process Steps for Exception 2-1A where Buyer wants to receive the missing product

Scenario	Example Resolution Steps	Example Resolution
Shortage discovered at receiving -- Buyer wants to receive the missing case	1. Buyer places an order for three cases.	
	2. Seller processes the order for three cases.	
	3. Due to Seller’s mistake, the Seller ships two cases instead of the three cases ordered by Buyer.	
	4. Two cases arrive at the Buyers dock.	
	5. Buyer receives the two cases with accompanying EPCIS traceability events for three cases.	
	6. Buyer notifies the Seller of the missing case SGTIN. <ul style="list-style-type: none"> <li>a. If Buyer can identify the parent container of the missing product, the Buyer provides parent serialized container (SGTIN or SSCC) to Seller as input to discrepancy analysis and resolution.</li> <li>b. If Buyer cannot identify the parent container of the missing product, the Buyer informs the Seller that extra product has already been disaggregated from its parent as input to discrepancy analysis and resolution.</li> </ul>	

Scenario	Example Resolution Steps	Example Resolution
	7. Seller investigates the shipping discrepancy with the omitted case from the shipment. Since Buyer wants to receive missing product and Seller agrees to ship missing product, the Seller physically ships the missing case. As the shortage was discovered and resolved within 24 hours of the original shipment, the original TI sent can be used for all three cases. <i>(Note that this second shipment is not in scope of this scenario and not modeled in the example XML.)</i>	
	8. Buyer receives the missing case into inventory using the original TI.	

**Table 3-3** Narrative Table for Exception 2-1A where Buyer wants to receive the missing product

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123, 456, 789)</p>		
S1			Buyer places order for three cases. Buyer creates 1 PO for the order (PO XYZ567).
S2	Seller processes order for three cases		
S3	<p>Seller ships only two cases by mistake. Physical shipment has SN 123 and 456. However, Seller's IT system records shipment of three cases SN 123, 456 and 789.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123, 456, 789 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123, 456, 789 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123, 456, 789)  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123, 456, 789 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	
S4			Pallet 300 with two cases arrive at Buyer's dock: SN 123, 456.

Step	Seller	Transfer	Buyer
S5			<p>Buyer receives SN 123, 456 which account for the two physical cases received and accompanying EPCIS traceability events. While there's data for SN 789, Buyer cannot receive SN 789 since the physical case is missing.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (pallet 300)  <b>E7: Unpacking</b> (pallet 300, case SNs 123, 456)  <b>E8: Inferred Receiving</b> events of contents for cases with <b>Aggregation</b> event Aggregation (case 123), Aggregation (case 456)</p>
S6			<p>Buyer notifies Seller of missing case SN 789. If the Buyer can identify the parent identifier for case SN 789, the Buyer includes the parent identifier information (i.e. pallet 300) in the exception notification.</p>
S7	<p>Seller investigates the shipping discrepancy with the omitted case from the shipment.</p> <p>Since the Buyer wants to receive missing product and the Seller agrees to ship missing product, the Seller physically ships the missing serialized case that matches the SGTIN in the original TI sent to the Buyer. As the shortage was discovered and resolved within 24 hours of the original shipment, the original TI sent can be used for all three cases. Hence, no additional EPCIS file is sent to the Buyer.</p> <p><i>(Note that this second shipment is not in scope of this scenario and not modeled in the example XML.)</i></p>	<p>Seller → Buyer</p> <p><b>Physical:</b> shipper case 100 containing case SN 789</p>	
S8			<p>Since the shortage was resolved and shipped within 24 hours of the original shipment, the Buyer receives case SN 789 into inventory using the original TI previously received.</p>

### 3.2 Exception 2-1B: Shortage discovered at Buyer- Buyer wants the missing product – Correction made after 24 hours of the original shipment

**Definition:** Buyer orders three cases from Seller. The Seller processes an order for three cases, but inadvertently ships only two cases\* to the Buyer. While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, the two cases that arrived are received into inventory by the Buyer. Seller ships the shortage past 24 hours of the original shipment and therefore must send the DSCSA transaction data to support the three cases received at the Buyer.

**Resolution:**

- Seller Action: Seller remedies the additional traceability data by physically shipping the missing case.
    - Create a new shipment for the shortage which would include a new SSCC.
    - Supplemental shipment may or may not be a match of the missing SGTIN in the original file.
    - Send supplemental packing list and ASN.
  - Buyer Action: Physically receive the product and accept the corresponding EPCIS file.
- XML examples: [Exception 2-1B: Shortage discovered at receiving – Buyer wants to cancel the order for the missing product](#)

**Table 3-4** Business Process Steps for Exception 2-1B where Buyer wants to cancel the missing product

Scenario	Example Resolution Steps	Example Resolution
Shortage discovered at receiving - Buyer wants to receive the missing case	1. Buyer places an order for three cases.	
	2. Seller processes an order for three cases.	
	3. By mistake, the Seller ships two cases, instead of the ordered three cases.	
	4. Two cases arrive at the Buyers dock.	
	5. Buyer receives the two cases with accompanying EPCIS traceability events for three cases.	
	6. Buyer notifies the Seller of the missing case SGTIN.	
	7. Seller investigates the shipping discrepancy with the omitted case from the shipment. Since Buyer wants to receive missing product and Seller agrees to ship missing product, the Seller physically ships another case. As the shortage was discovered and resolved past 24 hours of the original shipment, the original TI sent cannot be used and supplemental TI is created and sent for the previously missing case to accompany the shipment to the Buyer.	
	8. Upon receipt of missing case and supplemental EPCIS supporting data, Buyer receives product into inventory.	

**Table 3-5** Narrative table for Exception 2-1B where Buyer wants to cancel the missing product



Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123, 456, 789)</p>		
S1			Buyer places order for three cases. Buyer creates 1 PO for the order (PO XYZ567).
S2	Seller processes order for three cases.		
S3	<p>Seller ships only two cases by mistake. Physical shipment has SN 123 and 456. However, Seller's IT system records shipment of three cases SN 123, 456 and 789.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123, 456, 789 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456</p> <p><b><u>EPCIS:</u></b>  <b>E1: Commissioning</b> (case SN 123, 456, 789 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123, 456, 789)  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123, 456, 789 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	
S4			Pallet 300 with two cases arrive at Buyer's dock: SN 123, 456.

Step	Seller	Transfer	Buyer
S5			<p>Buyer receives SN 123, 456 which account for the two physical received and accompanying EPCIS traceability events. While there's data for SN 789, Buyer cannot receive SN 789 since the physical case is missing.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E6: Receiving</b> (pallet 300)  <b>E7: Unpacking</b> (pallet 300, case SNs 123, 456)  <b>E8: Inferred Receiving</b> events of contents for cases with <b>Aggregation</b> event Aggregation (case 123), Aggregation (case 456)</p>
S6			<p>Buyer notifies Seller of missing case SN 789.</p>
S7	<p>Seller investigates the shipping discrepancy with the omitted case from the shipment. Since Buyer wants to receive missing product and Seller agrees to ship missing product, the Seller physically ships another case, case SN 711 instead of 789 which has the equivalent GTIN but different SN. As the shortage was discovered and resolved past 24 hours of the original shipment, the original TI sent cannot be used and supplemental TI is created and sent for the previously missing case to accompany the shipment to the Buyer.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E9: Commissioning</b> (shipper case 101)  <b>E10: Packing</b> (case SN 789 to shipper case 101)  <b>E11: Shipping</b> (shipper case 101)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> shipper case 101 containing case SN 711</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E1: Commissioning</b> (case SN 711 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SN 711)  <b>E9: Commissioning</b> (shipper case 101)  <b>E10: Packing</b> (case SN 789 to shipper case 101)  <b>E11: Shipping</b> (shipper case 101)</p>	
S8			<p>Shipper case with case 711 arrive at Buyer's dock. Buyer receives case SN 711 into inventory.</p> <p><b><u>EPCIS event(s) created:</u></b>  <b>E12: Receiving</b> (shipper case 101)  <b>E13: Unpacking</b> (shipper case 101)  <b>E14: Inferred Receiving</b> of contents for case Aggregation (case 711)</p>

### 3.3 Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order amended to exclude the missing product/quantity

**Definition:** Buyer orders three cases from Seller. Seller processes an order for three cases, but inadvertently ships only two cases\* to the Buyer. While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, the two cases that arrive are received into inventory by the Buyer. Buyer no longer wants the third case. Buyer requests that the Purchase Order be amended to exclude the missing case.

**Resolution:**

- Seller Action: Seller amends the Purchase Order to exclude the missing case.
  - Reversal of shipment for the shortage which could be the same as Seller’s return process to get the serial number of the missing case back in the system. This may require an inventory adjustment in Seller’s system. Seller may also need to change the status of the serial number to make it available for sale if dispositioned as a saleable item.
- Buyer Action: No additional action necessary as there is no receiving event for missing case.
- XML examples: [Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order amended to exclude the missing product/quantity](#)

**Table 3-5** Business Process Steps for Exception 2-1C

Scenario	Example Resolution Steps	Example Resolution
Shortage discovered at receiving -- Buyer wants Purchase Order amended to exclude the missing product/quantity.	1. Buyer places an order for three cases.	Purchase order is amended to cancel missing case. Seller processes the reversal of the shipment of the shortage.
	2. Seller processes an order for three cases.	
	3. By mistake, the Seller ships two cases instead of the three cases ordered by Buyer.	
	4. Two cases arrive at the Buyers dock.	
	5. Buyer receives the two cases with accompanying EPCIS traceability events for three cases.	
	6. Buyer notifies the Seller of the missing case SGTIN and that it wants the PO amended to exclude the missing case.	
	7. Seller investigates the shipping discrepancy with the omitted case from the shipment. Since Buyer does not want to receive missing product and Seller agrees to amend the PO to exclude it, the Seller proceeds to reverse the shipment for the shortage to get the serial number of the missing case back in the system.	
	8. The Buyer does not process the additional data received for the missing case.	

**Table 3-6** Narrative table for Exception 2-1C


Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123, 456, and 789.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123, 456, 789)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123, 456, 789)</p>		
S1			Buyer places order for three cases. Buyer creates 1 PO for the order (PO XYZ567).
S2	Seller processes order for three cases.		
S3	<p>Seller ships only two cases by mistake. Physical shipment has SN 123 and 456. However, Seller's IT system records shipment of three cases SN 123, 456 and 789.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123, 456, 789 to pallet 300)  <b>E5: Shipping</b> (pallet 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123, 456, 789 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123, 456, 789)  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123, 456, 789 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	
S4			Pallet 300 with two cases arrive at Buyer's dock: SN 123, 456.
S5			<p>Buyer receives SN 123, 456 which account for the two physical received and accompanying EPCIS traceability events. While there's data for SN 789, Buyer cannot receive SN 789 since the physical case is missing.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (pallet 300)  <b>E7: Unpacking</b> (pallet 300, case SNs 123, 456)  <b>E8:</b> Inferred Receiving events of contents for cases with <b>Aggregation</b> event Aggregation (case 123), Aggregation (case 456)</p>

Step	Seller	Transfer	Buyer
S6			Buyer notifies the Seller of the missing case SGTIN and that it wants the PO amended to exclude the missing case.
S7	Seller investigates the shipping discrepancy with the omitted case from the shipment. Since Buyer does not want to receive missing product and Seller agrees to amend the PO to exclude it, the Seller proceeds to reverse the shipment for the shortage to get the serial number of the missing case back in the system.		
S8			Buyer ignores the additional data received for the missing case.

### 3.4 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer requests a replacement of the shortage.

**Definition:** Buyer places an order for one case for Buyer’s customer to be fulfilled via drop shipment by Seller. Seller processes the drop shipment order and ships an order of one case to the Buyer’s customer with the accompanying traceability data for one case. The Buyer’s customer receives the one sealed case and infers that there are twelve lowest saleable units inside. After receipt and then opening of the case, the Buyer’s customer discovers there are only eleven lowest saleable units inside the case and reports the shortage to the Buyer (the party that they placed the order to). The Buyer informs Seller of the discrepancy. The Seller investigates the missing serialized lowest saleable unit, which should have been packed inside the serialized case and shipped to the Buyer’s customer. To resolve the issue and match the purchased order quantity, the Seller drop ships a replacement lowest saleable unit to the Buyer’s customer with accompanying traceability data.

**Resolution:**

- Seller Action: Seller remedies the extra traceability data by physically shipping the missing lowest saleable unit.
  - Create a new shipment for the shortage which would include a SSCC.
  - Supplemental shipment may or may not be a match of the missing SGTIN in the original file.
- Buyer Action: Physically receive the product and accept the corresponding EPCIS file. Example
-  **Note:** This drop shipment scenario depicts an extended supply chain distribution model wherein there are 2 selling parties and 2 purchasing parties:
  - Seller1 is the original selling party.
  - Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
  - Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship the ordered products directly to Buyer2.
  - Buyer2 is Buyer1’s customer and the party receiving the drop shipment from Seller1.
- XML examples: [Exception 2-2A: Quantity inference problem \(concealed shortage\) - Buyer requests a replacement of the shortage.](#)

**Table 3-7** Business Process Steps for Exception 2-2A

Scenario	Example Resolution Steps	Example Resolution
	1. Buyer1 places an order for one case (containing twelve lowest saleable units) to be drop shipped to Buyer2.	
	2. Seller1 processes an order for one case.	
	3. Seller1 ships the case to the Buyer2 under the assumption that it contains twelve serialized lowest saleable units.	
	4. One case arrives at Buyer2.	
	5. Buyer2 receives the case with accompanying EPCIS traceability events.	
	6. After unpacking the case, Buyer2 identifies a shortage of a lowest saleable unit from the case.	
	7. Buyer2 notifies Seller2 of the missing lowest saleable unit providing the SGTIN.	
	8. Consequently, Buyer1 notifies Seller1 the same.	
	9. Seller1 investigates the shipping discrepancy with the missing unit from the case. Since Buyer2 wants to receive missing product and Seller1 agrees to drop ship missing product, the Seller1 physically ships another unit to the Buyer2. As the shortage was discovered and resolved past 24 hours of the original shipment, the original TI sent cannot be used and TI for the missing unit needs to be sent to Buyer2 in a supplemental EPCIS file.	
	10. Upon receipt of EPCIS supporting data and the missing unit, Buyer2 receives it into inventory.	

**Table 3-8** Narrative Table for Exception 2-2A

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller1 has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)</p> <p><b>E2: Packing</b> (one event: 12 lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer1 places an order for one case (containing twelve lowest saleable units) to be drop shipped to Buyer2. Buyer1 provides PO for the order (PO XYZ567) and Buyer2's drop shipment information.
S2	Seller1 processes an order for one case.		

Step	Seller	Transfer	Buyer
S3	<p>Seller1 ships the case to Buyer2. Seller1 physically ships one case thinking there are twelve serialized lowest saleable units in the case.</p> <p><b>EPCIS event(s) created:</b> <b>E3: Commissioning</b> (shipper case 100)</p> <p><b>E4: Packing</b> (case SNs 123 to shipper case 100)</p> <p><b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller1 → Buyer2</p> <p><b>Physical:</b> shipper case 100 containing case SN 123</p> <p><b>EPCIS:</b> <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs) <b>E2: Packing</b> (for case SN 23) <b>E3: Commissioning</b> (shipper case 100) <b>E4: Packing</b> (case SNs 123 to shipper case 100) <b>E5: Shipping</b> (shipper case 100)</p>	
S4			One shipper case containing case SN 123 arrives at Buyer2's dock.
S5			<p>Buyer2 receives case SN 123 with inferred quantity of 12.</p> <p><b>EPCIS event(s) created:</b> <b>E6: Receiving</b> (shipper case 100 )</p> <p><b>E7: Unpacking</b> (shipper case 100)</p> <p><b>E8: Inferred Receiving of contents for case Aggregation</b> (case 123)</p>
S6			<p>Buyer2 opens case SN 123 and discovers there are only eleven SNs inside. SN 12 is unexpectedly missing.</p> <p><b>EPCIS event(s) created:</b> <b>E9: Unpacking</b> (case SN 123)</p>
S7			Buyer2 notifies Seller2 of the missing lowest saleable unit, SN 12.
S8			Buyer1 notifies Seller1 of the missing lowest saleable unit, SN 12 in the drop shipment to Buyer2.

Step	Seller	Transfer	Buyer
S9	<p>Seller1 investigates the shipping discrepancy with the missing unit from the case. Since Buyer2 wants to receive missing product and Seller1 agrees to drop ship missing product, Seller1 physically ships SN 246 as equivalent replacement unit to SN 12 to Buyer2. As the shortage was discovered and resolved past 24 hours of the original shipment, the original TI sent cannot be used and TI for the missing unit needs to be sent to Buyer2. The supplemental EPCIS data file includes supporting events for the extra unit.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E10: Commissioning</b> (shipper case 200)</p> <p><b>E11: Packing</b> (LSU SN 246 to shipper case 200)</p> <p><b>E12: Shipping</b> (shipper case 200)</p>	<p>Seller1 → Buyer2</p> <p><b>Physical:</b> shipper case 200 containing lowest saleable unit SN 246</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (lowest saleable unit SN 246)</p> <p><b>E10: Commissioning</b> (shipper case 200)</p> <p><b>E11: Packing</b> (lowest saleable unit SN 246 to shipper case 200)</p> <p><b>E12: Shipping</b> (shipper case 200)</p>	
S10			<p>Buyer2 now receives lowest saleable unit SN 246.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E13: Receiving</b> (shipper case 200)</p> <p><b>E14: Unpacking</b> (shipper case 200)</p>

### 3.5 Exception 2-2B: Quantity inference problem (concealed shortage) – Buyer does not want to receive replacement for the shortage

**Definition:** Buyer places an order for one case from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the case\*. The Buyer receives the sealed case and infers that there are twelve lowest saleable units inside. The Buyer then ships that same case intact to their customer. After receipt and then opening of the case, the Buyer’s customer discovers there are only eleven lowest saleable units inside the case and reports the shortage to the Buyer (the party that they placed the order to). Buyer’s customer requests that the Purchase Order be amended to exclude the missing lowest saleable unit. The Buyer informs the Seller of the discrepancy. The Seller investigates the missing serialized lowest saleable unit, which should have been packed inside the serialized case and shipped to the Buyer. To resolve the issue, the Seller amends the Buyer’s Purchase Order for the missing lowest saleable unit. The Buyer does the same for their customer.

**Resolution:**

Seller Action: Seller amends the Purchase Order to exclude the missing unit.

Internal activity Reversal of shipment for the shortage which could be the same as Seller’s return process to get the serial number of the missing unit back in the system. This may require an inventory adjustment. Seller may also need to change the status of the serial number to make it available for sale if dispositioned as a saleable item.



Buyer Action: Buyer amends the Purchase Order of their customer to exclude the missing unit.

- ✔ **Note:** Since this scenario depicts an extended supply chain distribution model, there are 2 selling parties and 2 purchasing parties:
  - Seller1 is the original selling party.
  - Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
  - Buyer1 is the original party who purchased from Seller1.
  - Buyer2 is Buyer1’s customer.
  
- XML examples: [Exception 2-2B: Quantity inference problem \(concealed shortage\)](#)

**Table 3-9** Business Process Steps for Exception 2-2B

Scenario	Example Resolution Steps	Example Resolution
	1. Buyer1 places an order for one case (containing twelve lowest saleable units).	
	2. Seller1 processes an order for one case.	
	3. Seller1 ships one case to Buyer1 under the assumption that it contains twelve serialized lowest saleable units in the case.	
	4. One case arrives at the Buyer1’s dock.	
	5. Buyer1 receives the one case under inference.	
	6. Buyer2, the Buyer’s customer, places order for one case.	
	7. Seller2 sells and ships sealed case to Buyer2.	
	8. Buyer2 receives the case and, upon unpacking it, discovers a shortage of one lowest saleable unit. Buyer receives the eleven serialized lowest saleable units into inventory ignoring the additional data received.	
	9. Buyer2 notifies Seller2 of the missing lowest saleable unit providing the SGTIN.	
	10. Consequently, Buyer1 notifies Seller1 the same.	
	11. Seller1 investigates the shipping discrepancy with the missing unit from the case. Since Buyer2 does not want to receive missing product and Seller2 agrees to amend the PO to exclude it, Seller1 proceeds to reverse the shipment for the shortage to get the serial number of the missing case back in the system.	
	12. Buyer1 and Buyer2 amend their respective POs to exclude missing lowest saleable unit. They do not process the additional data received for the missing lowest saleable unit.	

**Table 3-10** Narrative Table for Exception 2-2B

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller1 has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)  <b>E2: Packing</b> (one event: lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer1 places an order for one case (containing twelve lowest saleable units). Buyer1 provides PO for the order (PO XYZ567).
S2	Seller processes order for one case.		
S3	<p>Seller physically ships one case thinking there are twelve serialized lowest saleable units in the case. Physical shipment has case SN 123. Seller's IT system reflects there are 12 serialized lowest saleable units in SN 123 although the case unexpectedly contains 11 lowest saleable units.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SNs 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller1 → Buyer1</p> <p><b>Physical:</b> shipper case 100 containing case SN 123</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123)  <b>E3: Commissioning</b> (shipper case 100)  <b>E4: Packing</b> (case SNs 123 to shipper case 100)  <b>E5: Shipping</b> (shipper case 100)</p>	
S4			One shipper case containing case SN 123 arrives at Buyer1's dock.
S5			<p>Buyer1 receives case SN 123 with inferred quantity of 12.</p> <p><b>EPCIS event(s) created:</b>  <b>E6: Receiving</b> (shipper case 100)  <b>E7: Unpacking</b> (shipper case 100)  <b>E8: Inferred Receiving</b> of contents for case Aggregation (case 123)</p>
S6			Buyer2, the Buyer's customer, places order for one case. Buyer2 provides Seller2 with PO for the order (PO ACC711).

Step	Seller	Transfer	Buyer
S7	<p>Seller2 sells and ships sealed case SN 123 to Buyer2.</p> <p><b>EPCIS event(s) created:</b>  <b>E9: Commissioning</b> (shipper case 300)</p> <p><b>E10: Packing</b> (case SN 123 to shipper case 300)</p> <p><b>E11: Shipping</b> (shipper case 300)</p>	<p>Seller2 → Buyer2</p> <p><b>Physical:</b> shipper case 300 containing case SN 123</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123)</p> <p><b>E9: Commissioning</b> (shipper case 300)</p> <p><b>E10: Packing</b> (case SNs 123 to shipper case 300)</p> <p><b>E11: Shipping</b> (shipper case 300)</p>	
S8			<p>Buyer2 receives the case and, upon unpacking it, discovers a shortage of one lowest saleable unit. Buyer receives the eleven serialized lowest saleable units into inventory ignoring the additional data received.</p> <p><b>EPCIS event(s) created:</b>  <b>E12: Receiving</b> (shipper case 300)</p> <p><b>E13: Unpacking</b> (shipper case 300)</p>
S9			Buyer2 notifies Seller2 of the missing lowest saleable unit, SN 12.
S10			Buyer1 notifies Seller1 of the missing lowest saleable unit, SN 12.
S11	<p>Seller1 investigates the shipping discrepancy with the missing unit from the case. Since Buyer2 does not want to receive missing product and Seller2 agrees to amend the PO to exclude it, Seller1 proceeds to reverse the shipment for the shortage to get the serial number of the missing case back in the system.</p>		
S12			Buyer1 and Buyer2 amend their respective POs to exclude missing lowest saleable unit. They do not process the additional data received for the missing lowest saleable unit.

### 3.6 Exception 2-3: Shipment is cancelled and subsequent shipment containing same product is sent to Buyer.

**Definition:** Buyer orders one case from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the case. The Buyer cancels the order while the shipment is in transit. The EPCIS file had already been sent by the Seller when the shipment left the Seller’s facility. The Buyer subsequently places an order the next day for a case of the same product in which the same prepared shipment can be sent.

**Resolution:**

- Seller Action: Turn around shipment in transit to return to Seller’s facility and processes subsequent order. (Seller arranges for product return)
    - Reversal of shipment which could be the same as Seller’s return process to get the serial numbers back in the system. This may require an inventory adjustment. Seller may also need to change the status of the serial numbers to make them available for sale if dispositioned as a saleable item.
    - Processes new order and creates a new SSCC for the same shipper case with updated date and time.
  - Buyer Action:
    - Do not process the EPCIS file accompanying the first shipment which was cancelled.
    - Physically receive the product associated with the second shipment and accept the corresponding EPCIS file.
- XML examples: [Exception 2-3: Shipment is cancelled and subsequent shipment containing same product is sent to Buyer.](#)

**Table 3-11** Business Process Steps for Exception 2-3

Scenario	Example Resolution Steps	Example Resolution
	1. Buyer places an order for one case.	
	2. Seller processes an order for the one case.	
	3. Seller ships one case with the corresponding TI/TS.	
	4. Buyer notifies Seller to cancel order while it is in transit.	
	5. Seller turns around the shipment and has product returned to its facility.	
	6. Seller proceeds to reverse the shipment to get the serial numbers back in the system. (This may require an inventory adjustment and Seller may also need to change the status of the serial numbers to make them available for sale.)	
	7. Buyer places an order for one case for the same product to ship the subsequent day.	
	8. Seller ships same case under new SSCC with the updated date and time.	
	9. Buyer receives the case with the appropriate DSCSA transaction event data.	

**Table 3-12** Narrative Table for Exception 2-4A

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller1 has serialized inventory on hand, including one serialized case with SN 123.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E1: Commissioning</b> (lowest saleable unit SNs, case SN 123)</p> <p><b>E2: Packing</b> (one event: 12 lowest saleable unit SNs to case SN 123)</p>		
S1			Buyer places an order for one case (containing twelve lowest saleable units). Buyer provides PO for the order (PO XYZ567).
S2	Seller processes order for one case.		
S3	<p>Seller ships one case with the corresponding TI/TS.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E3: Commissioning</b> (shipper case 100)</p> <p><b>E4: Packing</b> (case SNs 123 to shipper case 100)</p> <p><b>E5: Shipping</b> (shipper case 100)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> shipper case 100 containing case SN 123</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123)</p> <p><b>E3: Commissioning</b> (shipper case 100)</p> <p><b>E4: Packing</b> (case SNs 123 to shipper case 100)</p> <p><b>E5: Shipping</b> (shipper case 100)</p>	
S4			Buyer notifies Seller to cancel order while it is in transit.
S5	Seller turns around the shipment and has product returned to its facility.		
S6	Seller proceeds to reverse the shipment to get the serial numbers back in the system. (This may require an inventory adjustment and Seller may also need to change the status of the serial numbers to make them available for sale.)		
S7			Buyer places an order for one case for the same product to ship the subsequent day. Buyer provides new PO for the order (PO XYZ987).

Step	Seller	Transfer	Buyer
S8	<p>Seller ships same case under new SSCC with the updated date and time.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E6: Commissioning</b> (shipper case 200)</p> <p><b>E7: Packing</b> (case SNs 123 to shipper case 200)</p> <p><b>E8: Shipping</b> (shipper case 200)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> shipper case 200 containing case SN 123</p> <p><b>EPCIS:</b></p> <p><b>E1: Commissioning</b> (case SN 123 including relevant lowest saleable unit SNs)</p> <p><b>E2: Packing</b> (for case SNs 123)</p> <p><b>E6: Commissioning</b> (shipper case 200)</p> <p><b>E7: Packing</b> (case SNs 123 to shipper case 200)</p> <p><b>E8: Shipping</b> (shipper case 200)</p>	
S9			<p>Buyer receives the case with the appropriate DSCSA transaction event data.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E9: Receiving</b> (shipper case 200)</p> <p><b>E10: Unpacking</b> (shipper case 200)</p> <p><b>E11: Inferred Receiving</b> of contents for case Aggregation (case SN 123)</p>

### 3.7 Exception 2-4A: Undelivered Shipment – Product is stolen.

**Definition:** Buyer orders two cases from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the two cases. The products are not delivered to the Buyer, who receives an invoice for the missing shipment from the Seller. The Buyer notifies the Seller of the missing serialized products and disputes the invoice. Upon investigating the issue, the Seller determines the product was stolen. This typically requires the Seller to follow their 3911-submission process in addition to dispositioning the product as stolen. Although this situation does not require data exchange amongst trading partners, it can require a change in each of the respected trading partners' systems.

**Resolution:**

- Seller Action: Seller to follow their 3911-submission process and disposition the product appropriately, a disposition for *stolen* is established in the GS1's [Core Business Vocabulary \(CBV\)](#).
- Buyer Action: Provide Seller with any pertinent information to assist in the investigation and filing of 3911.

- XML examples: [Exception 2-4A: Undelivered Shipment – Product is stolen.](#)

**Table 3-13** Business Process Steps for Exception 2-4A

Scenario	Example Resolution Steps	Example Resolution
Undelivered shipment, disposition of product changing versus the exchange of data - Product is stolen	<b>Manual intervention:</b>	Product is dispositioned appropriately and 3911 is submitted.
	1. Buyer places an order for two cases.	
	2. Seller processes an order for two cases.	
	3. Seller ships two cases with the corresponding TI/TS.	
	4. The Buyer receives an invoice for the order, but the shipment never arrives at Buyer’s location.	
	5. Buyer notifies the Seller of the missing shipment. Buyer disputes the invoice for products not received.	
	6. Buyer provides available information for the order to the Seller for the investigation.	
	7. Seller investigates the missing shipment and determines the shipment is stolen.	
8. Seller follows its 3911-submission process and dispositions the product appropriately.		

**Table 3-14** Narrative Table for Exception 2-4A

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123 and 456.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123 and 456)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123 and 456)</p>		
S1			Buyer places an order for two cases. Buyer creates 1 PO for the order (PO XYZ567).
S2	Seller processes an order for two cases.		
S3	<p>Seller ships two cases with the corresponding TI/TS.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123 and 456 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 and 456 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123 and 456)  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123 and 456 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	
S4			The Buyer receives an invoice for the order, but the shipment never arrives at Buyer's location.
S5			Buyer notifies the Seller of the missing shipment. Buyer disputes the invoice for products not received.
S6			Buyer provides available information for the order to the Seller for the investigation.
S7	Seller investigates the missing shipment and determines the shipment is stolen.		



Step	Seller	Transfer	Buyer
S8	<p>Seller follows its 3911-submission process and disposes the product appropriately.</p> <p>Seller sets disposition for SNs in cases 123 and 456 to <i>stolen</i>.</p> <p>Although this situation does not require data exchange amongst trading partners, the Seller can optionally send an EPCIS message to the Buyer communicating the <i>stolen</i> disposition for the SNs reported by Buyer.</p> <p><b>EPCIS event(s) created:</b></p> <p><b>E6: Object event with disposition of <i>stolen</i></b> (case SN 123 and 456 including relevant lowest saleable unit SNs). <i>Note: No bizStep is assigned since it's an optional attribute in an EPCIS event.</i></p>	<p>Seller → Buyer</p> <p><b>EPCIS:</b></p> <p><b>E6: Object event with disposition of <i>stolen</i></b> (case SN 123 and 456 including relevant lowest saleable unit SNs).</p>	

### 3.8 Exception 2-4B: Undelivered Shipment – Product is lost.

**Definition:** Buyer orders two cases from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the two cases. The products are not delivered to the Buyer who receives an invoice for the missing shipment. The Buyer notifies the Seller of the missing serialized products and disputes the invoice. Upon investigating the issue, the Seller determines that the product was lost in transit due to a delivery issue that occurred and disposes the product appropriately. Although this situation does not require data exchange amongst trading partners, it can require a change in each of the respected trading partners' systems.

**Resolution:**

- Seller Action: Seller to follow their defined process and disposition the product appropriately, a disposition for *unknown* is established in the GS1's [Core Business Vocabulary \(CBV\)](#).
- Buyer Action: Provide Seller with any pertinent information to assist in the investigation.
  - XML examples: [Exception 2-4B: Damaged product discovered at receiving – Seller authorizes Buyer to destroy product](#)

**Table 3-15** Business Process Steps for Exception 2-4B

Scenario	Example Resolution Steps	Example Resolution
Undelivered shipment, disposition of product changing versus the exchange of data – Product is lost	<b>Manual intervention:</b>	Product is dispositioned appropriately, and lost shipment process is followed.
	1. Buyer places an order for two cases.	
	2. Seller process an order for two cases.	
	3. Seller ships two cases with the corresponding TI/TS.	
	4. The Buyer receives an invoice for the order, but the shipment never arrives at Buyer's location.	
5. Buyer notifies the Seller of the missing shipment. Buyer disputes the invoice for products not received.		

Scenario	Example Resolution Steps	Example Resolution
	6. Buyer provides available information for the order to the Seller for the investigation.	
	7. Seller investigates the missing shipment and determines there was a delivery issue, and the shipment is lost.	
	8. Seller follows their defined process and disposes the product appropriately.	


**Table 3-16** Narrative Table for Exception 2-4B

Step	Seller	Transfer	Buyer
S0	<p>Previous to this use case, Seller has serialized inventory on hand, including three serialized cases with SN 123 and 456.</p> <p><b>EPCIS event(s) created:</b>  <b>E1: Commissioning</b> (lowest saleable unit SNs, case SNs 123 and 456)  <b>E2: Packing</b> (three events: lowest saleable unit SNs to case SN 123 and 456)</p>		
S1			Buyer places an order for two cases. Buyer creates 1 PO for the order (PO XYZ567).
S2	Seller processes an order for two cases.		
S3	<p>Seller ships two cases with the corresponding TI/TS.</p> <p><b>EPCIS event(s) created:</b>  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123 and 456 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	<p>Seller → Buyer</p> <p><b>Physical:</b> pallet 100 containing case SN 123, 456</p> <p><b>EPCIS:</b>  <b>E1: Commissioning</b> (case SN 123 and 456 including relevant lowest saleable unit SNs)  <b>E2: Packing</b> (for case SNs 123 and 456)  <b>E3: Commissioning</b> (pallet 300)  <b>E4: Packing</b> (case SNs 123 and 456 to pallet 300)  <b>E5: Shipping</b> (pallet 300)</p>	
S4			Buyer notifies the Seller of the missing shipment. Buyer disputes the invoice for products not received.
S5			Buyer provides available information for the order to the Seller for the investigation.

Step	Seller	Transfer	Buyer
S6	Seller investigates the missing shipment and determines there was a delivery issue, and the shipment is lost.		
S7	<p>Seller follows their defined process and disposes the product appropriately. Seller sets disposition for SNs in cases 123 and 456 to <i>unknown</i>.</p> <p><b><u>EPCIS event(s) created:</u></b></p> <p><b>E6: Object event with disposition of <i>unknown</i></b> (case SN 123 and 456 including relevant lowest saleable unit SNs). Note: No bizStep is assigned since it's an optional attribute in an EPCIS event.</p>		

## 4 XML Examples

### 4.1 Exception 1-1A: Overage discovered at receiving – Buyer keeps the product

 **Note:** In this scenario the Buyer orders two cases of a product from Seller. The Seller processes the order, but three cases are delivered to the Buyer. The EPCIS *Shipping* event documents that two cases were shipped by the Seller. It is agreed by the parties that the Buyer will keep the extra case.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_1\\_1-1A\\_Overage\\_Keep.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_1_1-1A_Overage_Keep.zip)

#### 4.1.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.1 Exception 1-1A: Overage discovered at Buyer location - Buyer keeps the
product: Seller Exchange1 -->
<!--Use Case Example: Seller (MFG) processes the order for 2 cases and provides Buyer (W) with
DSCSA transaction data.
This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 2 cases of
GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220001</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
  </EPCISHeader>
</epcis:EPCISDocument>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
    <!-- master data for case -->
    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A) - (G).</gslushc:legalNotice>
        </gslushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- Ela: Commissioning events (8 LSUs: 4 LSUs per case) -->
            <ObjectEvent>
                <eventTime>2024-03-27T06:45:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                </epcList>
            </ObjectEvent>
        </EventList>
    </EPCISBody>

```

```

</epcList>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- Elb: Commissioning events (2 case SNs 123, 456) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>

```

```

</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 2 cases SNs 123, 456) -->
<AggregationEvent>
  <eventTime>2024-10-21T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
<TransactionEvent>
  <eventTime>2024-10-21T06:55:16Z</eventTime>

```



```

    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
  <TransactionEvent>
    <eventTime>2024-10-21T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ444</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E6: Shipping pallet of 2 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>

```

```

                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                    </destinationList>
                </extension>
                <gslushc:dropShipment>false</gslushc:dropShipment>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>

```

#### 4.1.2 Sample XML: Buyer Receives Product (First Receipt)

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.1 Exception 1-1A: Overage discovered at Buyer location - Buyer keeps the product: Buyer
(W) Receives Product into inventory -->
<!--Use Case Example: Pallet with three cases arrive at Buyer's dock with DSCSA data supporting 2 cases.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W) Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 2 cases of GTIN
A. In this example, 2 cases of GTIN A contains 4 LSUs.
W's DC receives pallet, unpacks cases from pallet and surprisingly finds 3 cases instead of 2. For the
2 cases with supporting DSCSA data, W's DC does not unpack the 2 cases but records inferred receiving
into inventory for the 8 LSUs contained in the 2 cases. The 3rd unexpected case is quarantined.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>

```

```

    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>1100220002</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-21T18:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since this is
assumed to be an internal operation. This is included in this example for illustration purposes to
depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>

```

```

        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1 Biopharm
Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806 Agoura
Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park Ave
S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-1502</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>

```

```

        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>

            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>

            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>

            <attribute id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gs1ushc:guidelineVersion>GS1 US DSCSA R1.3</gs1ushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E7: Receiving pallet of 2 cases ordered (SNs 123, 456) -->
        <ObjectEvent>
            <eventTime>2024-10-21T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567100</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 3 business documents: 2 POs from buying Wholesaler1, Delivery Document created by
MFG DC -->

            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999999991:POXYZ567</bizTransaction>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ444</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owing Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owing Party is Wholesaler, Destination Location is Wholesaler DC -
->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
    </extension>
</ObjectEvent>
<!-- E8: As Wholesaler unpack cases from pallet, it's discovered that there are 3 cases that
physically arrive with the shipment. Case SNs 123 and 456 are expected but case SN 789 is unexpected. -
->
    <AggregationEvent>
        <eventTime>2024-10-21T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>

```

```

    </AggregationEvent>
    <!-- Without unpacking, record inferred receiving into inventory of 8 Lowest Saleable Units
(LSUs) contained in 2 cases with supporting DSCSA data -->
    <!-- E9a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
      <eventTime>2024-10-21T17:49:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      </childEPCs>
      <!-- Populate with action=OBSERVE since the Aggregation Event is used to reflect what is
being received -->
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </bizLocation>
      <!-- Note the use of GS1 US extension element, completeness_inferred, to indicate the
inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis of
aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier. -->
      <gs1ushc:completeness_inferred>true</gs1ushc:completeness_inferred>
    </AggregationEvent>
    <!-- E9b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
    <AggregationEvent>
      <eventTime>2024-10-21T17:50:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>

```

```

    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to reflect what is
being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to indicate the
inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis of
aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier. -->
    <gs1ushc:completeness_inferred>true</gs1ushc:completeness_inferred>
    </AggregationEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.1.3 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.1 Exception 1-1A: Overage discovered at Buyer location - Buyer keeps the
product: Seller Exchange2 -->
<!--Use Case Example: Seller provides supplemental data file with supporting events for extra
case, SN 789.
This example shows the EPCIS message sent by Manufacturer (MFG) to Wholesaler Distributor (W)
to capture the virtual shipment of the overage product which the buyer wants to keep.
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 1 case of
GTIN A. In this example, 1 case of GTIN A contains 4 LSUs.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>

```



```

<sbdh:Standard>EPCglobal</sbdh:Standard>
<sbdh:TypeVersion>1.0</sbdh:TypeVersion>
<sbdh:InstanceIdentifier>1100220003</sbdh:InstanceIdentifier>
<sbdh:Type>Events</sbdh:Type>
<sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
          </VocabularyElementList>
        </Vocabulary>
      </VocabularyList>
    </EPCISMasterData>
  </extension>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
            <!-- Wholesaler -->
            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Wholesaler's DC-->
                <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>

```

```

    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
    Sec. 581(27)(A)-(G).</gslushc:legalNotice>
  </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E1c: Commissioning events (4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmdata:lotNumber>A123</cbvmdata:lotNumber>
          <cbvmdata:itemExpirationDate>2027-03-27</cbvmdata:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E1d: Commissioning event (1 case SNs 789) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmdata:lotNumber>A123</cbvmdata:lotNumber>
          <cbvmdata:itemExpirationDate>2027-03-27</cbvmdata:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
    <AggregationEvent>
      <eventTime>2024-03-27T06:52:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
      <childEPCs>

```

```

        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E10: Commissioning event (shipper case 101) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567101</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E11: Aggregation event (packing shipper case with 1 case SNs 789) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567101</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E12: Shipping event for shipper case 101. -->
<!-- EPCIS Shipping event for one overage case has the shipment date as the
timestamp of the new Shipping event as well as the transaction date in addition to all
necessary event data related to the additional case.-->
<ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567101</epc>
    </epcList>
    <action>OBSERVE</action>

```

```

    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ965</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.1.4 Sample XML: Buyer Receives Product (2nd Receipt)

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.1 Exception 1-1A: Overage discovered at Buyer location - Buyer keeps the
product: Buyer (W) Receives Overage Product into inventory -->
<!--Use Case Example: Upon receipt of supplemental EPCIS file, Buyer transfers one case from
quarantine to inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the supplemental file includes DSCSA data supporting virtual shipment of 1
shipper case containing 1 cases of GTIN A. In this example, 1 case of GTIN A contains 4
LSUs.
W's DC receives shipper case, unpacks cases from shipper case and records inferred receiving
into inventory for the 4 LSUs contained in the 1 case.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>

```

```

    <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
    <sbdh:Sender>
      <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
    </sbdh:Sender>
    <sbdh:Receiver>
      <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
    </sbdh:Receiver>
    <sbdh:DocumentIdentification>
      <sbdh:Standard>EPCglobal</sbdh:Standard>
      <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      <sbdh:InstanceIdentifier>1100220004</sbdh:InstanceIdentifier>
      <sbdh:Type>Events</sbdh:Type>
      <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <!-- master data for lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
            <!-- master data for case -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
      </EPCISMasterData>
    </extension>
  </sbdh:StandardBusinessDocumentHeader>

```

```

</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
  <VocabularyElementList>
    <!-- MFG -->
    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- MFG DC-->
    <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
      <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler's DC-->
    <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E13: Receiving shipper case containing case SN 789 -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.51234567101</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ965</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
            </bizTransactionList>
            <extension>
                <!-- Source Owning Party is MFG, Source Location is MFG DC -->
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E14: Wholesaler unpack case from shipper case. -->
        <AggregationEvent>
            <eventTime>2024-10-22T17:48:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:030001.51234567101</parentID>
    
```




```

    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E15: Capture receipt of 4 LSUs inferred to be contained in case SN 789 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
of aggregation information
(e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>


```

## 4.2 Exception 1-1B: Overage discovered at Buyer location - Buyer sends back unexpected product

- 
**Note:** In this scenario, the Buyer wants to return or refuse the extra product in the shipment. While the outcome of the two explicit overage scenarios varies, the return/refusal process variation is not modeled in the sample XML because this guideline focuses on DSCSA related exchanges only.

Reference File: [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_2\\_1-1B\\_Overage\\_Keep.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_2_1-1B_Overage_Keep.zip)

### 4.2.1 Sample XML: Exchange1 - Seller -> Buyer

- 
**Note:** The message content of Exchange1 of Seller -> Buyer in this example is identical to the content of the [Exchange1 of Seller -> Exception 1-1A: Overage discovered at receiving - Buyer keeps the product](#) example.

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.2 Exception 1-1B: Overage discovered at Buyer location - Buyer sends back
unexpected product: Seller Exchange1 -->
<!--Use Case Example: Seller (MFG) processes the order for 2 cases and provides Buyer (W) with
DSCSA transaction data.
This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 2 cases of
GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220005</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">

```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        </VocabularyElementList>
    </Vocabulary>
    <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
            <!-- MFG -->
            <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
            <!-- MFG DC-->
            <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>

```

```

Village</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Westlake
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler's DC-->
    <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
  </VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E1a: Commissioning events (8 LSUs: 4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      </epcList>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</EPCIS>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E1b: Commissioning events (2 case SNs 123, 456) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>

```

```

        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-21T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 2 cases SNs 123, 456) -->
<AggregationEvent>
    <eventTime>2024-10-21T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>

```

```

    </bizLocation>
  </AggregationEvent>
  <!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
  <TransactionEvent>
    <eventTime>2024-10-21T06:55:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
  <TransactionEvent>
    <eventTime>2024-10-21T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E6: Shipping pallet of 2 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>

```

```

    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.2.2 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.2 Exception 1-1B: Overage discovered at Buyer location - Buyer sends back
unexpected product: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Pallet with three cases arrive at Buyer's dock with DSCSA data supporting
2 cases.

```

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W) Corp.

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 2 cases of GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs.

W's DC receives pallet, unpacks cases from pallet and surprisingly finds 3 cases instead of 2. For the 2 cases with supporting DSCSA data, W's DC does not unpack the 2 cases but records inferred receiving into inventory for the 8 LSUs contained in the 2 cases. The 3rd unexpected case is quarantined.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220006</sbdh:InstanceIdentifier>

```



```

    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-21T18:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
          </VocabularyElementList>
        </Vocabulary>
      </VocabularyList>
    </EPCISMasterData>
  </extension>

```

```

        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
            <!-- Wholesaler -->
            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Wholesaler's DC-->
                <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
    <gs1ushc:guidelineVersion>GS1 US DSCSA R1.3</gs1ushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>

```

```

<EventList>
  <!-- E7: Receiving pallet of 2 cases ordered (SNs 123, 456) -->
  <ObjectEvent>
    <eventTime>2024-10-21T17:45:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- 3 business documents: 2 POs from buying Wholesaler1, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
  </ObjectEvent>
  <!-- E8: As Wholesaler unpack cases from pallet, it's discovered that there are 3
cases that physically arrive with the shipment. Case SNs 123 and 456 are expected but case SN
789 is unexpected. -->
  <AggregationEvent>
    <eventTime>2024-10-21T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>

```

```

        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
</AggregationEvent>
<!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
<!-- E9a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:49:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        </childEPCs>
        <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
        <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
of aggregation information
        (without unpacking the aggregated children from the parent) on the basis
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
<!-- E9b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:50:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        </childEPCs>
        <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>


```

```

    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
    (without unpacking the aggregated children from the parent) on the basis
of aggregation information
    (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.3 Exception 1-2: Traceability data contains incorrect lot information for entire shipment

 **Note:** In this scenario the Buyer orders two cases of a product from the Seller. The Seller processes the order. Two cases shipped by the Seller physically arrive at Buyer's location marked with Lot number "XYZ". The accompanying traceability EPCIS *Commissioning* events reflect a different Lot number value than what is marked on the product that arrived. While the *Packing* and *Shipping* events are valid, the Buyer is unable to receive the products into inventory until the correct Lot number is reflected in the supporting *Commissioning* events.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_3\\_1-2\\_TraceabilityDataIncorrectLot.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_3_1-2_TraceabilityDataIncorrectLot.zip)

#### 4.3.1 Sample XML: Exchange1 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.3 Exception 1-2: Traceability data contains incorrect lot information for entire
shipment: Seller Exchange1 -->
<!--Use Case Example: Seller (MFG) processes the order for 2 cases and provides Buyer (W) with
DSCSA transaction data. Seller does not realize at time of shipment that the Seller's IT
system incorrectly records Commissioning events for both cases assigning them to from Lot# ABC
instead of Lot# XYZ.
This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)
In this scenario, the DSCSA data accompanying shipment is for 1 pallet containing 2 cases of
GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

```

```

    <sbdh:InstanceIdentifier>1100220007</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
    </EPCISMasterData>
  </extension>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>

```

```

</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E1a: Commissioning events (8 LSUs: 4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>ABC123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E1b: Commissioning events (2 case SNs 123, 456) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>ABC123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
    <AggregationEvent>
      <eventTime>2024-03-27T06:50:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>

```



```

<parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 2 cases SNs 123, 456) -->
<AggregationEvent>
  <eventTime>2024-10-21T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
  <childEPCs>

```

```

        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
<TransactionEvent>
    <eventTime>2024-10-21T06:55:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
        </bizTransactionList>
    <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
</TransactionEvent>
<!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
<TransactionEvent>
    <eventTime>2024-10-21T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ444</bizTransaction>
        </bizTransactionList>
    <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
</TransactionEvent>
<!-- E6: Shipping pallet of 2 cases ordered -->
<ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>

```

```

        </readPoint>
        <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.3.2 Sample XML: Buyer Receives Pallet and Quarantines Product

<?xml version="1.0" encoding="UTF-8"?>  
 <!-- Section 2.3 Exception 1-2: Traceability data contains incorrect lot information for entire shipment: Buyer (W) opens the physical pallet with 2 cases and is unable to receive cases into inventory due to incorrect DSCSA data. -->  
 <!--Use Case Example: Pallet with two cases arrive at Buyer's dock with DSCSA data for 2 cases. For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W) Corp.

In this scenario, the DSCSA data accompanying shipment does NOT support the 1 pallet containing 2 cases of GTIN A due to a mismatch in the lot number in the physical product versus the lot number in the commissioning events. In this example, 2 cases of GTIN A contains 4 LSUs. W's DC receives pallet, unpacks cases from pallet and surprisingly finds that the DSCSA commissioning data for the cases does not match the lot number marked in the physical label of the cases. Consequently, the W's DC quarantines the 2 cases unpacked from the pallet.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCGlobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220008</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-21T18:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->

```

```

          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    <!-- Wholesaler -->

```

```

        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gs1ushc:guidelineVersion>GS1 US DSCSA R1.3</gs1ushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E7: Receiving pallet only and not the cases contained on the pallet -->
        <ObjectEvent>
            <eventTime>2024-10-21T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567100</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 3 business documents: 2 POs from buying Wholesaler1, Delivery Document
created by MFG DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E8: As Wholesaler unpacks cases from pallet, it's discovered that there are
the lot number for the case commissioning events sent by the Manufacturer does not match the
lot number marked in the physical cases. Both case SNs 123 and 456 are quarantined after they
are unpacked from the pallet. -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.3.3 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.3 Exception 1-2: Traceability data contains incorrect lot information for entire
shipment: Seller Exchange2 -->
<!--Use Case Example: Seller (MFG) updates the Seller's IT system to correctly reflect the lot
number in the associated Commissioning events for the cases and LSUs for products previously
shipped to WholesalerDistributor (W).

```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W). In this scenario, the DSCSA data reflects the case and LSU commissioning events with lot number matching physical products previously shipped to W. The eventTime of the commissioning events is the same as the original commissioning event sent. The supplemental file includes the the shipment event to capture the virtual shipment of the cases and LSUs whose commissioning event data has been corrected to show the correct lot number. In this scenario, the DSCSA data accompanying the virtual shipment supports 1 pallet containing 2 cases of GTIN A. In this example, each case of GTIN A contains 4 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Identifier>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220009</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
              </VocabularyElement>
              <!-- master data for case -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            </VocabularyElementList>
          </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
  </EPCISHeader>
</EPCISDocument>
```



```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- Ela: Commissioning events (8 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>XYZ123</cbvmda:lotNumber>
                    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

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<!-- E1b: Commissioning events (2 case SNs 123, 456) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>XYZ123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>

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        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:030001.111111.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- E9: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
    <ObjectEvent>
        <eventTime>2024-10-22T06:47:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sscc:030001.41234567200</epc>
        </epcList>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
        <disposition>urn:epcglobal:cbv:disp:active</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </bizLocation>
    </ObjectEvent>
    <!-- E10: Aggregation event (packing pallet with 2 cases SNs 123, 456) -->
    <AggregationEvent>
        <eventTime>2024-10-22T06:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.41234567200</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        </childEPCs>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
    <TransactionEvent>
        <eventTime>2024-10-22T06:55:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        </bizTransactionList>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        </epcList>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
    </TransactionEvent>
    <!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
    <TransactionEvent>

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    <eventTime>2024-10-22T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E11: Shipping pallet of 2 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567200</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.3.4 Sample XML: Buyer Receives Product

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.3 Exception 1-2: Traceability data contains incorrect lot information for entire shipment: Buyer (W) Receives Product into inventory after incorrect lot is corrected in DSCSA data -->
<!--Use Case Example: Upon receipt of supplemental EPCIS file, Buyer transfers two cases from quarantine to inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W) Corp.
In this scenario, the supplemental file includes DSCSA data supporting virtual shipment of 1 pallet containing 2 cases of GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs.
W's DC virtually receives pallet, virtually unpacks cases from pallet and records inferred receiving into inventory for the 8 LSUs contained in the 2 case.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespace/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220010</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>

```

```

        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E13: Receiving pallet containing cases SN 123, 456 -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567200</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
            <bizTransactionList>

```



```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
    </extension>
</ObjectEvent>
<!-- E14: Wholesaler virtually unpacks 2 cases from pallet. -->
<AggregationEvent>
    <eventTime>2024-10-22T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567200</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E15a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
<AggregationEvent>
    <eventTime>2024-10-22T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>


```

```

    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E15b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells extra product to Buyer

 **Note:** In this scenario the Buyer orders one case of a product from Seller. Seller processes the order. Using inference to confirm receipt of the entire case, the quantity of units in the case are implied by the Buyer. Buyer receives case into inventory. Buyer subsequently discovers an additional unit in the case. This scenario presents a concealed overage that is not uncovered until after products have been received into inventory using inferred aggregation. Buyer notifies Seller of the extra product, one additional lowest sellable unit. It is agreed by the parties that the Buyer will keep the unit.

Reference File: [https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_4\\_1-3A\\_QtyInference\\_ConcealedOverage.zip](https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_4_1-3A_QtyInference_ConcealedOverage.zip)

### 4.4.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells
extra product to Buyer: Seller Exchange1 -->
<!--Use Case Example: Seller (MFG) processes the order for 1 case and provides Buyer (W) with
DSCSA transaction data.
This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1
case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
        <sbdh:DocumentIdentification>
          <sbdh:Standard>EPCglobal</sbdh:Standard>
          <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
          <sbdh:InstanceIdentifier>1100220011</sbdh:InstanceIdentifier>
          <sbdh:Type>Events</sbdh:Type>
          <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
    <!-- master data for case -->
    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A) - (G).</gslushc:legalNotice>
        </gslushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- Ela: Commissioning events (12 LSUs per case) -->
            <ObjectEvent>
                <eventTime>2024-03-27T06:45:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                </epcList>
            </ObjectEvent>
        </EventList>
    </EPCISBody>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- Elb: Commissioning events (1 case SNs 123) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
  </childEPCs>

```

```

        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-21T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
<AggregationEvent>
    <eventTime>2024-10-21T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E5: Shipping shipper case of 1 case ordered -->
<ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>

```

```

        <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
            </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.4.2 Sample XML: Buyer Unpacks Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells
extra product to Buyer: Buyer (W) unpacks LSUs from case -->
<!--Use Case Example: Buyer opens up case SN 123 and discovers there are thirteen SNs
inside. SN 112 is unexpectedly found inside and quarantined for lack of supporting DSCSA data.
This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W)
Corp.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1.2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>

```



```

    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>1100220013</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- Wholesaler -->
          <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>

```

```

        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E9: Wholesaler unpacks LSUs from case 123. SN 112 is unexpectedly found inside
and quarantined for lack of supporting DSCSA data. -->
        <AggregationEvent>
            <eventTime>2024-10-22T17:48:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.112</epc>
            </childEPCs>
            <action>DELETE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
        </AggregationEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

        </bizLocation>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.4.3 Sample XML: Buyer Receives Product (First Receipt)

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells
extra product to Buyer: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: One shipper case containing case SN 123 arrives at Buyer's dock.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case
of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
W's DC receives shipper case, and unpacks case from shipper case. Without unpacking the LSUs
from case 123, Buyer receives case SN 123 into inventory with inferred quantity of 12.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220012</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-10-21T18:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <!-- master data for lowest saleable unit -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    
```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Receiving shipper case of 1 case ordered (SNs 123) -->
        <ObjectEvent>
            <eventTime>2024-10-21T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.51234567100</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>

```

```

        <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
            </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E7: Wholesaler unpacks case 123 from shipper case. -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- Without unpacking, record inferred receiving into inventory of 12 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
    <!-- E8: Capture receipt of 12 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:49:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        </childEPCs>
    </AggregationEvent>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </bizLocation>
  <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
(without unpacking the aggregated children from the parent) on the basis
of aggregation information
(e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.4.4 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.1 Exception 1-3A: Overage discovered at Buyer location - Buyer keeps the
product: Seller Exchange2 -->
<!--Use Case Example: Seller investigates concealed LSU SN 112 found inside case 123. The
result of the investigation is that SN 112 is legitimate and was shipped by mistake. Since the
Buyer wants to keep SN 112, the Seller retrieves Commissioning for SN 112 and creates a
Shipping event.
Seller provides supplemental data file with supporting events for extra SN 112.

```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W) to capture the virtual shipment of the extra concealed product which the buyer wants to keep. In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 LSU of GTIN A.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-23T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>

```

```

</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>1100220014</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2024-10-23T08:45:16Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>

```





```
Oaks</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Thousand
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- MFG DC-->
    <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler's DC-->
    <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
    </VocabularyList>
    </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
```

```

    <gslushc:dscsaTransactionStatement>
      <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
      <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A)-(G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <!-- E1c: Commissioning event (extra concealed LSU) -->
      <ObjectEvent>
        <eventTime>2024-03-27T06:45:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:030001.0012345.112</epc>
        </epcList>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
        <disposition>urn:epcglobal:cbv:disp:active</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:030001.111111.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:030001.111111.0</id>
        </bizLocation>
        <extension>
          <ilmd>
            <cbvmda:lotNumber>A123</cbvmda:lotNumber>
            <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
          </ilmd>
        </extension>
      </ObjectEvent>
      <!-- E10: Commissioning event (shipper case 200) at the MFG DC -->
      <ObjectEvent>
        <eventTime>2024-10-23T06:47:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sscc:030001.51234567200</epc>
        </epcList>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
        <disposition>urn:epcglobal:cbv:disp:active</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:030001.111121.0</id>
        </bizLocation>
      </ObjectEvent>
      <!-- E11: Aggregation event (packing shipper case with LSU SN 112) -->
      <AggregationEvent>
        <eventTime>2024-10-23T06:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
        <childEPCs>
          <epc>urn:epc:id:sgtin:030001.0012345.112</epc>
        </childEPCs>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
      </AggregationEvent>
    </EventList>
  </EPCISBody>
</EPCISHeader>

```

```

        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- E12: Shipping event for shipper case 200 -->
    <!-- EPCIS Shipping event for one overage case has the shipment date as the
timestamp of the new Shipping event as well as the transaction date in addition to all
necessary event data related to the additional case.-->
    <ObjectEvent>
        <eventTime>2024-10-23T07:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sscc:030001.51234567200</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
        <!-- Wholesaler has requested to keep the extra unit by adding to the same PO
XYZ567 -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.4.5 Sample XML: Buyer Receives Product (2nd Receipt)

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.4 Exception 1-3A: Quantity inference problem (concealed overage) - Seller sells
extra product to Buyer: Buyer (W) Receives Extra Concealed Unit into inventory -->

```

<!--Use Case Example: Upon receiving the supporting DSCSA event data for the extra product, the Buyer now receives unit SN 112 into inventory.  
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.  
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W) Corp.  
In this scenario, the DSCSA data accompanying virtual shipment supports 1 extra concealed unit.  
W's DC receives virtual shipper case, and unpacks LSU from shipper case.  
-->

```
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-23T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220015</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-23T18:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                  <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                </VocabularyElement>
                <!-- master data for case -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
        </extension>
        <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E13: Receiving shipper case -->
    <ObjectEvent>
      <eventTime>2024-10-23T17:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.51234567200</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </bizLocation>
      <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
      <!-- Wholesaler has requested to keep the extra unit by adding to the same PO
XYZ567 -->
      <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
      </bizTransactionList>
      <extension>
        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
          <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>

```

```
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
                <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                </destinationList>
        </extension>
</ObjectEvent>
<!-- E14: Wholesaler unpacks LSU SN 112 from shipper case. -->
<AggregationEvent>
    <eventTime>2024-10-23T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.112</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 4.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks Buyer to return extra product



**Note:** In this scenario, the Seller asks Buyer to return the product in the shipment. While the outcome of the two quantity inference problem (concealed overage) scenarios varies, the return process variation is not modeled in the sample XML because this guideline focuses on DSCSA related exchanges only.

Reference File: [https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_5\\_1-3B\\_QtyInference\\_ConcealedOverage.zip](https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_5_1-3B_QtyInference_ConcealedOverage.zip)

### 4.5.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks Buyer to return extra product: Seller Exchange1 -->
<!-- This scenario depicts an extended supply chain distribution model, there are 2 selling parties and 2 purchasing parties:  :

  • Seller1 is the original selling party.
  • Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
  • Buyer1 is the original party who purchased from Seller1.
  • Buyer2 is Buyer1's customer and the buyer of product from Seller2.

-->
<!--Use Case Example: Seller1 (MFG) processes the order for 1 case and provides Buyer1 (W) with DSCSA transaction data.
This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220016</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
```



```

<VocabularyList>
  <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
    <VocabularyElementList>
      <!-- master data for lowest saleable unit -->
      <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
      </VocabularyElement>
      <!-- master data for case -->
      <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
      </VocabularyElement>
    </VocabularyElementList>
  </Vocabulary>
  <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
      <!-- MFG: Seller1 -->
      <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
      </VocabularyElement>
      <!-- MFG DC: Seller1's DC -->
      <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
    </VocabularyElementList>
  </Vocabulary>

```

```

Agoura Rd</attribute>          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
500</attribute>              <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Village</attribute>          <attribute id="urn:epcglobal:cbv:mda#city">Westlake
                               <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                               </VocabularyElement>
                               <!-- Wholesaler: Buyer1/Seller2 -->
                               <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
Corp</attribute>              <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
                               <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>              <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                               <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                               <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                               </VocabularyElement>
                               <!-- Wholesaler: Buyer1/Seller2's DC -->
                               <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
DC1</attribute>              <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
                               <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>              <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                               <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                               </VocabularyElement>
                               </VocabularyElementList>
                               </Vocabulary>
                               </VocabularyList>
                               </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (12 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>

```

```

<epcList>
  <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
</epcList>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E1b: Commissioning events (1 case SNs 123) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
  </childEPCs>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing shipper case with case SN 123) -->
<AggregationEvent>
  <eventTime>2024-10-21T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E5: Shipping shipper case of 1 case ordered -->
<ObjectEvent>
  <eventTime>2024-10-21T07:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>

```

```

        <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created by
Seller1's DC -->
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owning Party is Seller1, Source Location is Seller1's DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer1/Seller2's DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.5.2 Sample XML: Buyer Receives Product (First Receipt)

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks
Buyer to return extra product: Buyer (W) Receives Product into inventory -->
<!-- This scenario depicts an extended supply chain distribution model, there are 2 selling
parties and 2 purchasing parties:
  • Seller1 is the original selling party.
  • Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
  • Buyer1 is the original party who purchased from Seller1.
  • Buyer2 is Buyer1's customer and the buyer of product from Seller2.
-->
<!--Use Case Example: One shipper case containing case SN 123 arrives at Buyer's dock. Using
inference to confirm receipt of the entire case, the quantity of units in the case are
implied. Buyer receives case into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Buyer1's DC to Buyer1's Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1
case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
W's DC receives shipper case, and unpacks case from shipper case. Without unpacking the LSUs
from case 123, Buyer receives case SN 123 into inventory with inferred quantity of 12.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220017</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-21T18:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
    <!-- master data for case -->
    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG: Seller1 -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC: Seller1's DC -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2's DC -->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Receiving shipper case of 1 case ordered (SNs 123) -->
        <ObjectEvent>
            <eventTime>2024-10-21T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.51234567100</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created by
Seller1's DC -->

```



```

    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:03999999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is Seller1, Source Location is Seller1's DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer1/Seller2's DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
  </ObjectEvent>
  <!-- E7: Buyer1/Seller2's DC unpacks case 123 from shipper case. -->
  <AggregationEvent>
    <eventTime>2024-10-21T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Without unpacking, record inferred receiving into inventory of 12 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
  <!-- E8: Capture receipt of 12 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-21T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    </childEPCs>
  </AggregationEvent>

```

```

        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.5.3 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks
Buyer to return extra product: Seller Exchange2 -->
<!-- This scenario depicts an extended supply chain distribution model, there are 2 selling
parties and 2 purchasing parties:
• Seller1 is the original selling party.
• Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
• Buyer1 is the original party who purchased from Seller1.
• Buyer2 is Buyer1's customer and the buyer of product from Seller2.
-->
<!--Use Case Example: Buyer2 places order for one case. Seller2 processes order for one case
and ships case SN 123 to Buyer2. The case previously received by Seller2 is kept intact and
shipped to Buyer2.
This example shows the EPCIS message sent by Seller2 (W) to Buyer2 (D).
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1
case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-11-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>

```

```

</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>1100220018</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2024-11-21T08:45:16Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG (Seller1) -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
          </VocabularyElementList>
        </Vocabulary>
      </VocabularyList>
    </EPCISMasterData>
  </extension>

```

```

Oaks</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Thousand
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler (Buyer1/Seller2) -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler's DC (Buyer1/Seller2) -->
    <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Dispenser (Buyer2) -->
    <VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">7200
Hale Ave.</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100A</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Los
Angeles</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">90019</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Dispenser's Retail Store (Buyer2's Retail Store) -->
    <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM CORP
Retail Store1</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main
St</attribute>

```

```

                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- Ela: Commissioning events (12 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
                    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- Elb: Commissioning events (1 case SNs 123) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:46:16Z</eventTime>

```

```

<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<epcList>
  <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
</epcList>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E9: Commissioning event (1 shipper case of GTIN A) at the Wholesaler's DC -->
<ObjectEvent>
  <eventTime>2024-11-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:039999.71234567300</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>

```

```

    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </ObjectEvent>
  <!-- E10: Aggregation event (packing shipper case with case SN 123) -->
  <AggregationEvent>
    <eventTime>2024-11-21T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:039999.71234567300</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E11: Shipping shipper case of 1 case ordered -->
  <ObjectEvent>
    <eventTime>2024-11-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:039999.71234567300</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Dispenser (Buyer2), Delivery
Document created by W (Seller2's DC) -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0844369215671:POACC711</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0399999999991:DEL200</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is Seller2 , Source Location is Seller2's DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</source>
      </sourceList>
      <!-- Destination Owning Party is Buyer2, Destination Location is Buyer2's
Retail Store -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:084436921.567.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
      </destinationList>
    </extension>

```

```

    <gslushc:dropShipment>>false</gslushc:dropShipment>
    <!-- Set directPurchase @qualifier to ENTIRELY_DIRECT in the Shipping data.
        Omit indirectPurchaseEPCs since the entire shipment from W to D is
directly purchased by W from MFG.
        Include directPurchaseStatement.
    -->
    <gslushc:directPurchase qualifier="ENTIRELY_DIRECT">
        <directPurchaseStatement>Seller affirms that indicated product(s) were
purchased directly from the manufacturer, exclusive distributor of the manufacturer, or a
repackager who purchased directly unless noted as being indirectly
sourced.</directPurchaseStatement>
    </gslushc:directPurchase>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.5.4 Sample XML: Buyer Receives Product (Second Receipt)

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.5 Exception 1-3B: Quantity inference problem (concealed overage) - Seller asks
Buyer to return extra product: Buyer2 (D) Receives Product into inventory -->
<!-- This scenario depicts an extended supply chain distribution model, there are 2 selling
parties and 2 purchasing parties:
• Seller1 is the original selling party.
• Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
• Buyer1 is the original party who purchased from Seller1.
• Buyer2 is Buyer1's customer and the buyer of product from Seller2.
-->
<!--Use Case Example: Buyer2 receives one case. Upon opening and unpacking the case, the
Buyer2 discovers there are 13 serialized units inside instead of 12. Buyer2 quarantines extra
unit without DSCSA data.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Buyer2's Retail Store to Buyer2's Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing a
case of 12 LSUs for GTIN A.
Buyer2's Retail Store receives shipper case, and unpacks case from shipper case. After
unpacking the LSUs from case 123, Buyer2 receives the 12 LSUs with DSCSA data but quarantines
the extra LSU surprisingly found in the case.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-11-21T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

```



```

    <sbdh:InstanceIdentifier>1100220019</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-11-21T18:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- Wholesaler: Buyer1/Seller2 -->
          <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
</extension>

```



```

        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2's DC -->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser: Buyer2 -->
        <VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">630
Fairview Ave</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Burien</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98166</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser Retail Store: Buyer2's Retail Store -->
        <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser Retail
Store1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">225
Terry Ave N</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
600</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Seattle</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98109</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
<EventList>

```

```

<!-- E12: Receiving shipper case of 1 case ordered (SNs 123) -->
<ObjectEvent>
  <eventTime>2024-11-21T17:45:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:039999.71234567300</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:084436921.568.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:084436921.568.0</id>
  </bizLocation>
  <!-- 2 business documents: 1 PO from Buyer2, Delivery Document created by
Seller2's DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0844369215671:POACC711</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0399999999991:DEL200</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is Seller2, Source Location is Seller2's DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</source>
      </sourceList>
      <!-- Destination Owning Party is Buyer2, Destination Location is Buyer2's
Retail Store -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:084436921.567.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
      </destinationList>
    </extension>
  </ObjectEvent>
  <!-- E13a: Buyer2's Retail store unpacks case 123 from shipper case. -->
  <AggregationEvent>
    <eventTime>2024-11-21T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:039999.71234567300</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:084436921.568.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:084436921.568.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E13b: Buyer2's Retail store unpacks LSUs from case 123.

```

Buyer2's Retail store discovers there are thirteen SNs inside.  
SN 112 is unexpectedly found inside and quarantines SN 112 for lack of supporting DSCSA data.-->

```

<AggregationEvent>
  <eventTime>2024-11-21T17:49:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.112</epc>
  </childEPCs>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:084436921.568.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:084436921.568.0</id>
  </bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.6 Exception 1-4A: Incorrect traceability data – Sold-to information in Shipping event is incorrect



**Note:** In this scenario the Buyer orders three cases of a product from Seller. The Seller processes the Buyer's order for three cases. Seller transmits the EPCIS file to the correct Buyer but there is an incorrect destination owning party GLN (that does not represent this organization of the Buyer) in the *Shipping* event. The file fails. While the three cases arrive at the correct Buyer location, the Buyer cannot receive the serialized product without the correct supporting DSCSA transaction data due to the file failing. Buyer quarantines the three cases of serialized product. The Seller transmits a corrected EPCIS Shipping event with the correct destination owning party GLN that identifies the appropriate sold-to party. Upon receipt of the corrected EPCIS Shipping event, the Buyer receives the three cases into inventory.

Reference File: [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_6\\_1-4A\\_Incorrect\\_SoldTo.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_6_1-4A_Incorrect_SoldTo.zip)

### 4.6.1 Sample XML: Exchange1 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.6 Exception 1-4A: Incorrect traceability data - Sold-to information in Shipping event is incorrect: Seller Exchange1 -->

```

<!--Use Case Example: The Seller processes the Buyer's order for three cases. Seller transmits the EPCIS file to the correct Buyer but there is an incorrect destination owning party GLN (that does not represent this organization of the Buyer) in the Shipping event. While the DSCSA file is transmitted to the right Buyer organization, the Buyer sold-to information is incorrect in the supporting EPCIS transaction and shipping events.

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W) In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220020</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                  <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                </VocabularyElement>
                <!-- master data for case -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler2 -->
        <VocabularyElement id="urn:epc:id:sgln:0246835.11339.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 GS1 WHLS2
XYZ</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">664
Grand Ave</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
2024</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Los
Angeles</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">90006</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- Ela: Commissioning events (12 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

    </bizLocation>
    <extension>
      <ilmd>
        <cbvmda:lotNumber>A123</cbvmda:lotNumber>
        <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
      </ilmd>
    </extension>
  </ObjectEvent>
  <!-- Elb: Commissioning events (3 case SNs 123, 456, 789) -->
  <ObjectEvent>
    <eventTime>2024-03-27T06:46:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
    <extension>
      <ilmd>
        <cbvmda:lotNumber>A123</cbvmda:lotNumber>
        <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
      </ilmd>
    </extension>
  </ObjectEvent>
  <!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    </childEPCs>
  </AggregationEvent>

```



```

        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:52:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-21T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
    <eventTime>2024-10-21T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>

```

```

    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
  <TransactionEvent>
    <eventTime>2024-10-21T06:55:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0246835113397:POXYZ567</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
  <TransactionEvent>
    <eventTime>2024-10-21T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0246835113397:POXYZ444</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E6: Shipping pallet of 3 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>

```

```

        <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0246835113397:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0246835113397:POXYZ444</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0246835.11339.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.6.2 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.6 Exception 1-4A: Incorrect traceability data - Sold-to information in Shipping
event is incorrect: Seller Exchange2 -->
<!--Use Case Example: The Seller transmits a corrected EPCIS Shipping event with the correct
destination owning party GLN that identifies the appropriate sold-to party as a resolution to
the issue reported by the Buyer who cannot receive the three cases which arrived at the correct
Buyer location with the incorrect sold-to party in the accompanying DSCSA transaction data.

```

This example shows the corrected EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W).

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>

```

```

    <sbdh:Receiver>
      <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
    </sbdh:Receiver>
    <sbdh:DocumentIdentification>
      <sbdh:Standard>EPCglobal</sbdh:Standard>
      <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      <sbdh:InstanceIdentifier>1100220021</sbdh:InstanceIdentifier>
      <sbdh:Type>Events</sbdh:Type>
      <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <!-- master data for lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
            <!-- master data for case -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
          <VocabularyElementList>
            <!-- MFG -->
            <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
              <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
              <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>

```



```
A</attribute>
Oaks</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- MFG DC-->
<VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
Agoura Rd</attribute>
500</attribute>
Village</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler -->
<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
<attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
```

```

</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- El1a: Commissioning events (12 LSUs: 4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- El1b: Commissioning events (3 case SNs 123, 456, 789) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>

```

```

    </bizLocation>
    <extension>
      <ilmd>
        <cbvmda:lotNumber>A123</cbvmda:lotNumber>
        <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
      </ilmd>
    </extension>
  </ObjectEvent>
  <!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:52:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
  </AggregationEvent>

```

```

    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E7: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
  <ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </ObjectEvent>
  <!-- E8: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
  <AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5c: Transaction event PO XYZ567 covers case SN 123 -->
  <TransactionEvent>
    <eventTime>2024-10-22T06:55:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>

```



```

    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E5d: Transaction event PO XYZ444 covers case SN 456 -->
  <TransactionEvent>
    <eventTime>2024-10-22T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E9: Shipping pallet of 3 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>

```

```

        </destinationList>
    </extension>
    <gslushc:dropShipment>>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.6.3 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.6 Exception 1-4A: Incorrect traceability data - Sold-to information in Shipping
event is incorrect: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Upon receipt of the corrected EPCIS Shipping event, the Buyer receives
the three cases into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of
GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.
W's DC receives pallet, unpacks cases from pallet and records inferred receiving into inventory
for the 12 LSUs contained in the 3 cases.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220022</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E10: Receiving pallet of 3 cases ordered (SNs 123, 456, 789) -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567300</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>

```

```

        <!-- 3 business documents: 2 POs from buying Wholesaler1, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E11: Wholesaler unpacks cases from pallet -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
    <!-- E12a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:49:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>

```


```

    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E12b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E12c: Capture receipt of 4 LSUs inferred to be contained in case SN 789 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>

```

```
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 4.7 Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping event is incorrect

 **Note:** In this scenario the Buyer orders three cases of a product from Seller. The Seller processes the Buyer's order. Seller transmits an incorrect *Shipping* event that reflects neither a correct destination location party GLN nor a GLN representing the intended organization. While the shipment of three cases arrives at the correct Buyer location, the Buyer decided not to receive the serialized product without the correct supporting DSCSA transaction data pursuant to a business decision based upon company policy. Buyer quarantines the serialized products until the Seller transmits a corrected EPCIS Shipping event with the correct destination location party. Upon receipt of the corrected EPCIS Shipping event, the Buyer receives the products into inventory.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_7\\_1-4B\\_Incorrect\\_ShipTo.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_7_1-4B_Incorrect_ShipTo.zip)

### 4.7.1 Sample XML: Exchange1: Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.7 Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping
event is incorrect: Seller Exchange1 -->
<!--Use Case Example: The Seller processes the Buyer's order for three cases. Seller transmits
the EPCIS file to the correct Buyer but there is an incorrect destination location GLN (that
does not represent this organization of the Buyer) in the Shipping event. While the DSCSA
file is transmitted to the right Buyer organization, the Buyer ship-to information is incorrect
in the supporting EPCIS transaction and shipping events.
```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W) In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220023</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
```



```

<VocabularyElementList>
  <!-- master data for lowest saleable unit -->
  <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
  </VocabularyElement>
  <!-- master data for case -->
  <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
  </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
  <VocabularyElementList>
    <!-- MFG -->
    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    </VocabularyElement>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
  </VocabularyElementList>
  <!-- MFG DC-->
  <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
  </VocabularyElement>
</Vocabulary>

```



```
500</attribute>
Village</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler -->
<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
  <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
  <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
  <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
  </VocabularyElement>
  <!-- Wholesaler2's DC -->
  <VocabularyElement id="urn:epc:id:sgln:0246835.11335.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 WHLS2 DC
XYZ</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2024
Figueroa St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A100</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Los
Angeles</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">90006</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
  </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (12 LSUs: 4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
```

```

    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- Elb: Commissioning events (3 case SNs 123, 456, 789) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
  </childEPCs>

```

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        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:52:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-21T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>

```

```

</epcList>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
  <eventTime>2024-10-21T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
<TransactionEvent>
  <eventTime>2024-10-21T06:55:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
  </bizTransactionList>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
</TransactionEvent>
<!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
<TransactionEvent>
  <eventTime>2024-10-21T06:56:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ444</bizTransaction>
  </bizTransactionList>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>

```

```

    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E6: Shipping pallet of 3 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0246835.11335.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.7.2 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.7 Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping
event is incorrect: Seller Exchange2 -->
<!--Use Case Example: The Seller transmits a corrected EPCIS Shipping event with the correct
destination location GLN that identifies the appropriate ship-to party as a resolution to the

```

issue reported by the Buyer who cannot receive the three cases which arrived at the correct Buyer location with the incorrect ship-to party in the accompanying DSCSA transaction data.

This example shows the corrected EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W).

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220024</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
              </VocabularyElement>
              <!-- master data for case -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            </VocabularyElementList>
          </Vocabulary>
        </EPCISMasterData>
      </extension>
  </EPCISHeader>
</EPCISDocument>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElementList>
</Vocabulary>

```



```

        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- Ela: Commissioning events (12 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
                </ilmd>
            </extension>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

        <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
</extension>
</ObjectEvent>
<!-- Elb: Commissioning events (3 case SNs 123, 456, 789) -->
<ObjectEvent>
    <eventTime>2024-03-27T06:46:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
    <extension>
        <ilmd>
            <cbvmda:lotNumber>A123</cbvmda:lotNumber>
            <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
    </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>

```

```

<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:52:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E7: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567300</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E8: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
  <eventTime>2024-10-22T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>

```

```

    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5c: Transaction event PO XYZ567 covers case SN 123 -->
  <TransactionEvent>
    <eventTime>2024-10-22T06:55:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E5d: Transaction event PO XYZ444 covers case SN 456 -->
  <TransactionEvent>
    <eventTime>2024-10-22T06:56:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
    </bizTransactionList>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E9: Shipping pallet of 3 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.7.3 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.7 Exception 1-4B: Incorrect traceability data - Ship-to information in Shipping
event is incorrect: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Upon receipt of the corrected EPCIS Shipping event, the Buyer receives
the three cases into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of
GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.
W's DC receives pallet, unpacks cases from pallet and records inferred receiving into inventory
for the 12 LSUs contained in the 3 cases.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>

```

```

</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>1100220025</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>

```

```

Biopharm Ct</attribute>          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
A</attribute>                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Oaks</attribute>                 <attribute id="urn:epcglobal:cbv:mda#city">Thousand
                                  <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                  </VocabularyElement>
                                  <!-- MFG DC-->
                                  <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                                  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                  </VocabularyElement>
                                  <!-- Wholesaler -->
                                  <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                  </VocabularyElement>
                                  <!-- Wholesaler's DC-->
                                  <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                                  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                                  <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                                  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                  </VocabularyElement>
                                  </VocabularyElementList>
                                  </Vocabulary>

```

```

        </VocabularyList>
    </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E10: Receiving pallet of 3 cases ordered (SNs 123, 456, 789) -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567300</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 3 business documents: 2 POs from buying Wholesaler1, Delivery Document
created by MFG DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
            </bizTransactionList>
            <extension>
                <!-- Source Owning Party is MFG, Source Location is MFG DC -->
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E11: Wholesaler unpacks cases from pallet -->
        <AggregationEvent>
            <eventTime>2024-10-22T17:48:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
            </childEPCs>
    </EventList>
</EPCISBody>
</EPCISHeader>
</EPCISMasterData>
</EPCIS>

```



```

<action>DELETE</action>
<bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</bizLocation>
</AggregationEvent>
<!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
<!-- E12a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
<AggregationEvent>
  <eventTime>2024-10-22T17:49:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </bizLocation>
  <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
(without unpacking the aggregated children from the parent) on the basis
of aggregation information
(e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
  <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
</AggregationEvent>
<!-- E12b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
<AggregationEvent>
  <eventTime>2024-10-22T17:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>

```

```

        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
</AggregationEvent>
<!-- E12c: Capture receipt of 4 LSUs inferred to be contained in case SN 789 using
Aggregation event -->
<AggregationEvent>
    <eventTime>2024-10-22T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.8 Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong Receiver.

**Note:** In this scenario the Buyer orders three cases of a product from Seller to be shipped to Buyer location "ABC." The Seller processes the Buyer's order. Seller has an incorrect Receiver listed in the EPCIS header (Company "XYZ") and transmits the EPCIS file to a Receiver outside the intended organization not affiliated with the Buyer. While the shipment of three cases arrives at the Buyer's "ABC" location, the Buyer cannot receive the serialized product without the supporting DSCSA transaction data. Buyer's "ABC" location quarantines the three cases of serialized product until the Seller transmits a corrected EPCIS file. Upon receipt of the corrected EPCIS file, Buyer's "ABC" location receives the products into inventory.

Reference File: [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_8\\_1-5\\_Incorrect\\_Receiver.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_8_1-5_Incorrect_Receiver.zip)

### 4.8.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.8 Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong Receiver: Seller Exchange1 -->
<!--Use Case Example: Buyer orders three cases of a product from Seller to be shipped to Buyer location "ABC." The Seller processes the Buyer's order. Seller has an incorrect Receiver listed in the EPCIS header (Company "XYZ") and transmits the EPCIS file to a Receiver outside the intended organization not affiliated with the Buyer.
```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W). In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:0246835.11339.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220026</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
```

```

        <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
          <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
          <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
      </VocabularyElementList>
    </Vocabulary>
    <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
      <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
          <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
          <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
      </VocabularyElementList>
    </Vocabulary>
  </VocabularyList>
</VocabularyList>

```

```

        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1a: Commissioning events (12 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            </epcList>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCISMessage>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- Elb: Commissioning events (3 case SNs 123, 456, 789) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>

```

```

</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:52:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567100</epc>
  </epcList>
  <action>ADD</action>

```

```

<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
  <eventTime>2024-10-22T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
<TransactionEvent>
  <eventTime>2024-10-22T06:55:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
  </bizTransactionList>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
</TransactionEvent>
<!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
<TransactionEvent>
  <eventTime>2024-10-22T06:56:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
  </bizTransactionList>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>

```



```

    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
  </TransactionEvent>
  <!-- E6: Shipping pallet of 3 cases ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.41234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.8.2 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.8 Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong
Receiver: Seller Exchange2 -->
<!--Use Case Example: For the Buyer to receive the shipment into inventory, the Seller creates
and sends a new EPCIS file listing "ABC "as the correct Receiver. Note that the supporting
events in the EPCIS file for the shipment are unchanged.

```

This example shows the corrected EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W).

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-23T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220027</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-23T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
              </VocabularyElement>
              <!-- master data for case -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            </VocabularyElementList>
          </Vocabulary>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
    
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        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- Ela: Commissioning events (12 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
                    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

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    </extension>
  </ObjectEvent>
  <!-- E1b: Commissioning events (3 case SNs 123, 456, 789) -->
  <ObjectEvent>
    <eventTime>2024-03-27T06:46:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
    <extension>
      <ilmd>
        <cbvmda:lotNumber>A123</cbvmda:lotNumber>
        <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
      </ilmd>
    </extension>
  </ObjectEvent>
  <!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  </AggregationEvent>

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    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:52:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
  <eventTime>2024-10-22T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</AggregationEvent>

```

```

        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- E5a: Transaction event PO XYZ567 covers case SN 123 -->
    <TransactionEvent>
        <eventTime>2024-10-22T06:55:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
            </bizTransactionList>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
        </epcList>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
    </TransactionEvent>
    <!-- E5b: Transaction event PO XYZ444 covers case SN 456 -->
    <TransactionEvent>
        <eventTime>2024-10-22T06:56:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ444</bizTransaction>
            </bizTransactionList>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        </epcList>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
    </TransactionEvent>
    <!-- E6: Shipping pallet of 3 cases ordered -->
    <ObjectEvent>
        <eventTime>2024-10-22T07:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sscc:030001.41234567100</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <!-- 3 business documents: 2 POs from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.8.3 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.8 Exception 1-5: Receiver in EPCIS header is incorrect, routed to the wrong
Receiver: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Upon receipt of the corrected EPCIS file, Buyer's "ABC" location receives
the products into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of
GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.
W's DC receives pallet, unpacks cases from pallet and records inferred receiving into inventory
for the 12 LSUs contained in the 3 cases.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-23T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>

```



```

<sbdh:Standard>EPCglobal</sbdh:Standard>
<sbdh:TypeVersion>1.0</sbdh:TypeVersion>
<sbdh:InstanceIdentifier>1100220028</sbdh:InstanceIdentifier>
<sbdh:Type>Events</sbdh:Type>
<sbdh:CreationDateAndTime>2024-10-23T18:45:16Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>

```



```
A</attribute>
Oaks</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- MFG DC-->
<VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
Agoura Rd</attribute>
500</attribute>
Village</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler -->
<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
<attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
```

```

</extension>
  <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E7: Receiving pallet of 3 cases ordered (SNs 123, 456, 789) -->
    <ObjectEvent>
      <eventTime>2024-10-23T17:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.41234567100</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </bizLocation>
      <!-- 3 business documents: 2 POs from buying Wholesaler1, Delivery Document
created by MFG DC -->
      <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ444</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
      </bizTransactionList>
      <extension>
        <!-- Source Owing Party is MFG, Source Location is MFG DC -->
        <sourceList>
          <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
          <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owing Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
          <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
          <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
      </extension>
    </ObjectEvent>
    <!-- E8: Wholesaler unpacks cases from pallet -->
    <AggregationEvent>
      <eventTime>2024-10-23T17:48:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:030001.41234567100</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
      </childEPCs>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>

```

```

    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
  <!-- E9a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-23T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E9b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-23T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>

```

```

    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E9c: Capture receipt of 4 LSUs inferred to be contained in case SN 789 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-23T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.9 Exception 1-6: No DSCSA transaction data for an entire shipment is received due to a transmission issue



**Note:** In this scenario the Buyer orders one case of a product from Seller. The Seller processes Buyer's order. The Seller ships the serialized case to the Buyer and sends the supporting EPCIS events for DSCSA. The serialized case arrives at the Buyer's dock, but the Buyer does not receive the supporting DSCSA event information. Buyer takes steps internally to confirm that their systems have not received and consumed the transaction information. The Buyer quarantines the case and contacts the Seller. Seller re-transmits the Commissioning, Packing and Shipping event supporting the physical shipment.

Reference File: [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_9\\_1-6\\_NoDSCSAdata\\_transmissionErr.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_9_1-6_NoDSCSAdata_transmissionErr.zip)

#### 4.9.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.9 1-6: No DSCSA transaction data for an entire shipment is received due to a
transmission issue: Seller Exchange1 -->
<!--Use Case Example: Buyer orders one case of a product from Seller. The Seller processes
Buyer's order. The Seller ships the serialized case to the Buyer and sends the supporting
EPCIS events for DSCSA.
```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W). In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220029</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
```

```

        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
  <VocabularyElementList>
    <!-- MFG -->
    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- MFG DC-->
    <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>

```

```

Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
DC1 ABC</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
<attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
<attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
<attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (4 LSUs in a case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>

```



```

        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E1b: Commissioning events (1 case SN 123) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E2: Aggregation event (packing case SN 123 with 4 LSUs) -->
    <AggregationEvent>
      <eventTime>2024-03-27T06:50:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      </childEPCs>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
    </AggregationEvent>
    <!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
    <ObjectEvent>
      <eventTime>2024-10-22T06:47:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.51234567100</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>

```

```

        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E5: Shipping shipper case of 1 case ordered -->
<ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owing Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owing Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>

```

```

        </extension>
        <gslushc:dropShipment>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.9.2 Sample XML: Exchange2 - Seller -> Buyer

<?xml version="1.0" encoding="UTF-8"?>  
 <!-- Section 2.9 1-6: No DSCSA transaction data for an entire shipment is received due to a transmission issue: Seller Exchange2 -->  
 <!--Use Case Example: Buyer orders one case of a product from Seller. The Seller processes Buyer's order. The Seller ships the serialized case to the Buyer and sends the supporting EPCIS events for DSCSA. Upon investigating the reported missing traceability data for SN 123, the Seller determines that a transmission error occurred. Seller IT system triggers a re-transmission of the same EPCIS file previously sent.

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W). In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220029</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
    <!-- master data for case -->
    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
        </gslushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- Ela: Commissioning events (4 LSUs in a case) -->
            <ObjectEvent>
                <eventTime>2024-03-27T06:45:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                </epcList>
                <action>ADD</action>
                <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
                <disposition>urn:epcglobal:cbv:disp:active</disposition>
            </ObjectEvent>
        </EventList>
    </EPCISBody>

```

```

<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E1b: Commissioning events (1 case SN 123) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>

```

```

    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </ObjectEvent>
  <!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
  <AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5: Shipping shipper case of 1 case ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>

```

```

        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.9.3 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.9 1-6: No DSCSA transaction data for an entire shipment is received due to a
transmission issue: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Upon receipt of EPCIS supporting data, Buyer transfers the case from
quarantine and receives it into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case
of GTIN A. In this example, 1 case of GTIN A contains 4 LSUs.
W's DC receives shipper case, unpacks case from shipper case and records inferred receiving
into inventory for the 4 LSUs contained in the 1 case.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCGlobal-epcis-1.2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-23T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220030</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-10-23T18:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
    </extension>
    <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.

```



```
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
          </VocabularyElement>
          <!-- MFG DC-->
          <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
```

```

DC</attribute>
Agoura Rd</attribute>
500</attribute>
Village</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler -->
<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
<attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
<attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
<attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
<EventList>
  <!-- E6: Receiving shipper case of 1 case ordered (SN 123) -->
  <ObjectEvent>
    <eventTime>2024-10-23T17:45:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>

```

```

<action>OBSERVE</action>
<bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</bizLocation>
<!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
  </bizTransactionList>
  <extension>
    <!-- Source Owning Party is MFG, Source Location is MFG DC -->
    <sourceList>
      <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
      <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
    </sourceList>
    <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
    <destinationList>
      <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
      <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
    </destinationList>
  </extension>
</ObjectEvent>
<!-- E7: Wholesaler unpacks case from shipper case -->
<AggregationEvent>
  <eventTime>2024-10-23T17:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </childEPCs>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </bizLocation>
</AggregationEvent>
<!-- Without unpacking, record inferred receiving into inventory of 4 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
<!-- E8: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
<AggregationEvent>
  <eventTime>2024-10-23T17:49:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>


```

```

    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
      <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.10 Exception 1-7: GLN incorrect in the file causing failure – the Sender has bad data

 **Note:** In this scenario the Buyer orders one case of a product from Seller. The Seller processes Buyer’s order. The serialized case is shipped to the Buyer along with the supporting EPCIS events for DSCSA. While the serialized case arrives at the Buyer’s dock, the supporting DSCSA event information contains the incorrect Buyer GLN and therefore fails in the Buyer’s system. The Seller shall update their system with the correct GLN and communicate such to the Buyer. Subsequently, the Seller regenerates the EPCIS document with the correct GLN. The Buyer quarantines the case until the Seller re-transmits the Commissioning, Packing and Shipping event supporting the physical shipment with the correct GLN.

*Reference File:* [https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_10\\_1-7\\_Incorrect\\_BuyerGLNinSellerSystem.zip](https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_10_1-7_Incorrect_BuyerGLNinSellerSystem.zip)

### 4.10.1 Sample XML: Exchange1 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.10 Exception 1-7: GLN incorrect in the file causing failure - the Sender has
bad data: Seller Exchange1 -->
<!--Use Case Example: The Seller processes the Buyer’s order for one case. Seller transmits the
EPCIS file to the correct Buyer but the supporting DSCSA event information contains the
incorrect Buyer GLN and therefore fails in the Buyer’s system. While the Buyer GLN in the
accompanying EPCIS event correctly reflects the Buyer's GS1 company prefix, the specific GLN
value reflects a regional GLN location instead of the Buyer's GS1 corporate GLN, which Buyer
expects to be the Sold-To party GLN.

```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)

In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 4 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220031</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
          <EPCISMasterData>
            <VocabularyList>
              <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                <VocabularyElementList>
                  <!-- master data for lowest saleable unit -->
                  <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                  </VocabularyElement>
                  <!-- master data for case -->
                  <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                </VocabularyElementList>
              </Vocabulary>
            </VocabularyList>
          </EPCISMasterData>
        </extension>
      </EPCISHeader>
    </EPCISDocument>
  </pre>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.721345.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Regional</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">664
Grand Ave</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
2024</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Los
Angeles</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">90006</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
100</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
  </VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G) .</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (4 LSUs) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- Elb: Commissioning event (1 case SN 123) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>

```

```

<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
<AggregationEvent>
  <eventTime>2024-10-21T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </childEPCs>
  <action>ADD</action>

```



```

    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5: Shipping shipper case of 1 case ordered -->
  <ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399997213457:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.721345.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.10.2 Sample XML: Exchange2 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
```

<!-- Section 2.10 Exception 1-7: GLN incorrect in the file causing failure - the Sender has bad data: Seller Exchange2 -->

<!--Use Case Example: After updating their master data system with the correct Buyer GLN, the Seller generates and sends a new EPCIS file containing supporting EPCIS events with the EPCIS header section updated to reflect the correct Buyer GLN.

This example shows the corrected EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W).

In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 4 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
        <sbdh:DocumentIdentification>
          <sbdh:Standard>EPCglobal</sbdh:Standard>
          <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
          <sbdh:InstanceIdentifier>1100220032</sbdh:InstanceIdentifier>
          <sbdh:Type>Events</sbdh:Type>
          <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                  <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                </VocabularyElement>
                <!-- master data for case -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- El1a: Commissioning events (4 LSUs) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
                    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- El1b: Commissioning events (1 case SN 123) -->
        <ObjectEvent>

```

```

<eventTime>2024-03-27T06:46:16Z</eventTime>
<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<epcList>
  <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
</epcList>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E6: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567200</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E7: Aggregation event (packing shipper case with 1 case SN 123) -->
<AggregationEvent>

```

```

<eventTime>2024-10-22T06:48:16Z</eventTime>
<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sscc:030001.51234567200</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</bizLocation>
</AggregationEvent>
<!-- E8: Shipping shipper case of 1 case ordered -->
<ObjectEvent>
  <eventTime>2024-10-22T07:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567200</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
  </bizTransactionList>
  <extension>
    <!-- Source Owning Party is MFG, Source Location is MFG DC -->
    <sourceList>
      <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
      <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
    </sourceList>
    <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
    <destinationList>
      <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
      <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
    </destinationList>
  </extension>
  <gslushc:dropShipment>>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.10.3 Sample XML: Buyer Receives Product

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.10 Exception 1-7: GLN incorrect in the file causing failure - the Sender has
bad data: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Upon receipt of the corrected EPCIS Shipping event, the Buyer takes
product out of quarantine and receives the one case into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1
case of GTIN A. In this example, 1 case of GTIN A contains 4 LSUs.
W's DC receives shipper case, unpacks cases from shipper case and records inferred receiving
into inventory for the 4 LSUs contained in the 1 case.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220033</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
          <EPCISMasterData>
            <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
            <VocabularyList>
              <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                <VocabularyElementList>
                  <!-- master data for lowest saleable unit -->
                  <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">

```





```
Corp ABC</attribute>
Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
DC1</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
  <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
  <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
  <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
  <attribute
  </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E9: Receiving shipper case of 1 case ordered (SN 123) -->
    <ObjectEvent>
      <eventTime>2024-10-22T17:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.51234567200</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </bizLocation>
      <!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
      created by MFG DC -->
      <bizTransactionList>
        <bizTransaction
        type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
        type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
```

```

    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
  </ObjectEvent>
  <!-- E10: Wholesaler unpacks case from shipper case -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Without unpacking, record inferred receiving into inventory of 4 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
  <!-- E11: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>


```

```

    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
    (without unpacking the aggregated children from the parent) on the basis
of aggregation information
    (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.11 Exception 1-8: File failed due to missing Master Data in the Buyer's system – the Receiver has an incorrect GTIN for the product

 **Note:** In this scenario the Buyer orders a case of a product from Seller. The Seller processes Buyer's order. Based upon information available per previous orders, Buyer's system reflects a GTIN for a case that contains six lowest saleable units. However, at the time the order was placed, the Seller's GTIN for this product reflects a case configuration of twelve lowest saleable units per case. The serialized case is shipped to the Buyer along with the supporting EPCIS events for DSCSA. While the serialized case arrives at the Buyer's dock, the supporting DSCSA event information contains an unrecognized GTIN and therefore fails in the Buyer's system. Since the GTIN is unknown to the Buyer's system, the Seller confirms and communicates the correct GTIN to the Buyer. The Buyer quarantines the case until it can re-process the Seller's Commissioning, Packing and Shipping event data supporting the physical shipment.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_11\\_1-8\\_FailureDueTo\\_IncorrectGTIN\\_inBuyerSystem.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_11_1-8_FailureDueTo_IncorrectGTIN_inBuyerSystem.zip)

### 4.11.1 Sample XML: Exchange1 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.11 Exception 1-8: File failed due to missing Master Data in the Buyer's system -
the Receiver has an incorrect GTIN for the product: Seller Exchange1 -->
<!--Use Case Example: Based upon information available per previous orders, Buyer's system
reflects a GTIN for a case that contains six lowest saleable units. However, at the time the
order was placed, the Seller's GTIN for this product reflects a case configuration of twelve
lowest saleable units per case. The serialized case is shipped to the Buyer along with the
supporting EPCIS events for DSCSA.

```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W). In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A with 12 LSUs.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>

```

```

    <sbdh:Sender>
      <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
    </sbdh:Sender>
    <sbdh:Receiver>
      <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
    </sbdh:Receiver>
    <sbdh:DocumentIdentification>
      <sbdh:Standard>EPCglobal</sbdh:Standard>
      <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      <sbdh:InstanceIdentifier>1100220034</sbdh:InstanceIdentifier>
      <sbdh:Type>Events</sbdh:Type>
      <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <!-- master data for lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
            <!-- master data for case -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
          <VocabularyElementList>
            <!-- MFG -->
            <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">

```



```
LLC</attribute>          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
Biopharm Ct</attribute> <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
A</attribute>           <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Oaks</attribute>       <attribute id="urn:epcglobal:cbv:mda#city">Thousand
                        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- MFG DC-->
                        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
Agoura Rd</attribute>  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
500</attribute>       <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Village</attribute>   <attribute id="urn:epcglobal:cbv:mda#city">Westlake
                        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Wholesaler -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>      <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Wholesaler's DC-->
                        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>       <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>     <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
```

```

        </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
    <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- Ela: Commissioning events (12 LSUs in a case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
                    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- Elb: Commissioning events (1 case SN 123) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:46:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>

```

```

    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
    <extension>
      <ilmd>
        <cbvmda:lotNumber>A123</cbvmda:lotNumber>
        <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
      </ilmd>
    </extension>
  </ObjectEvent>
  <!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
  <AggregationEvent>
    <eventTime>2024-03-27T06:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
  <ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </ObjectEvent>
  <!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
  <AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>

```

```

    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5: Shipping shipper case of 1 case ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.11.2 Sample XML: Exchange2 - Seller -> Buyer



```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.11 Exception 1-8: File failed due to missing Master Data in the Buyer's system -
the Receiver has an incorrect GTIN for the product: Seller Exchange1 -->
<!--Use Case Example: Based upon information available per previous orders, Buyer's system
reflects a GTIN for a case that contains six lowest saleable units. However, at the time the
order was placed, the Seller's GTIN for this product reflects a case configuration of twelve
lowest saleable units per case. While the serialized case arrives at the Buyer's dock, the
supporting DSCSA event information contains an unrecognized GTIN and therefore fails in the
Buyer's system. Since the GTIN is unknown to the Buyer's system, the Seller confirms and
communicates the correct GTIN to the Buyer. For the Buyer to receive the shipment into
inventory, the Seller needs to communicate and align with Buyer on the correct GTIN reflecting
the correct case configuration. No correction is needed to the EPCIS file as the failure was
due to unknown master data in the Buyer's system. Seller IT system triggers a re-transmission
of the same EPCIS file previously sent.
```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W). In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A with 12 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220034</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">

```

```
Corp ABC</attribute>      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
                           <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>          <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                           <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                           <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                           <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                           </VocabularyElement>
                           <!-- Wholesaler's DC-->
                           <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                             <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>           <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>          <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                           <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                           <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                           <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                           </VocabularyElement>
                           </VocabularyElementList>
                           </Vocabulary>
                           </VocabularyList>
                           </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E1a: Commissioning events (12 LSUs in a case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</EPCIS>
```

```

<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E1b: Commissioning events (1 case SN 123) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>

```

```

    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
  <ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </ObjectEvent>
  <!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
  <AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5: Shipping shipper case of 1 case ordered -->
  <ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.11.3 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 2.11 Exception 1-8: File failed due to missing Master Data in the Buyer's system -
the Receiver has an incorrect GTIN for the product: Buyer (W) Receives Product into inventory -
-->
<!--Use Case Example: After updating their master data system with correct GTIN for the case
with 12 LSUs, the Buyer processes the supporting DSCSA data file from the Seller and
consequently transfers the case from quarantine and receives it into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case
of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
W's DC receives shipper case, unpacks case from shipper case and records inferred receiving
into inventory for the 12 LSUs contained in the 1 case.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-23T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>

```

```

<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>1100220035</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2024-10-23T18:45:16Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>

```



```
A</attribute>
Oaks</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- MFG DC-->
<VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
Agoura Rd</attribute>
500</attribute>
Village</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler -->
<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1 ABC</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
<attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
```



```

</extension>
  <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E6: Receiving shipper case of 1 case ordered (SN 123) -->
    <ObjectEvent>
      <eventTime>2024-10-23T17:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.51234567100</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </bizLocation>
      <!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
      <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
      </bizTransactionList>
      <extension>
        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
          <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
          <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
          <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
          <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
      </extension>
    </ObjectEvent>
    <!-- E7: Wholesaler unpacks case from shipper case -->
    <AggregationEvent>
      <eventTime>2024-10-23T17:48:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      </childEPCs>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
      </readPoint>


```

```

    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Without unpacking, record inferred receiving into inventory of 12 Lowest
  Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
  <!-- E8: Capture receipt of 12 LSUs inferred to be contained in case SN 123 using
  Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-23T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
    reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
    indicate the inferred integrity of that aggregation
    (without unpacking the aggregated children from the parent) on the basis
    of aggregation information
    (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
    -->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.12 Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing product- Correction made within 24 hours of the original shipment

 **Note:** In this scenario the Buyer orders three cases from Seller. The Seller processes an order for three cases, but inadvertently ships only two cases\* to the Buyer. While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, the two cases that arrived are received into

inventory by the Buyer. Seller ships the shortage (the third case from the original order), within 24 hours of the initial shipment and the Buyer treats the TI sent originally as Advance TI.

Reference File: [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_12\\_2-1A\\_Shortage\\_BuyerWantsMissing\\_w\\_in24hrs.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_12_2-1A_Shortage_BuyerWantsMissing_w_in24hrs.zip)

#### 4.12.1 Sample XML: Exchange - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.1 Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing
product- Correction made within 24 hours of the original shipment: Seller Exchange1 -->
<!--Use Case Example: Buyer orders three cases from Seller. The Seller processes an order for
three cases, but inadvertently ships only two cases to the Buyer.
```

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs each.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Identifier>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Identifier>
        <sbdh:DocumentIdentification>
          <sbdh:Standard>EPCglobal</sbdh:Standard>
          <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
          <sbdh:InstanceIdentifier>1100220036</sbdh:InstanceIdentifier>
          <sbdh:Type>Events</sbdh:Type>
          <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
```

```

        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
  <VocabularyElementList>
    <!-- MFG -->
    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- MFG DC-->
    <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>

```

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Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
DC1</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (12 LSUs: 4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</EPCISHeader>
</EPCISMessage>

```

```

<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- Elb: Commissioning events (3 case SNs 123, 456, 789) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->

```

```

<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:52:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567300</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
  <eventTime>2024-10-22T06:48:16Z</eventTime>

```

```

<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sscc:030001.41234567300</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</bizLocation>
</AggregationEvent>
<!-- E5: Shipping pallet with the manufacturer unaware that only 2 cases have
      been physically packed in the pallet. -->
<ObjectEvent>
  <eventTime>2024-10-22T07:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567300</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
  </bizTransactionList>
  <extension>
    <!-- Source Owing Party is MFG, Source Location is MFG DC -->
    <sourceList>
      <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
      <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
    </sourceList>
    <!-- Destination Owing Party is Wholesaler, Destination Location is
Wholesaler DC -->
    <destinationList>
      <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
      <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
    </destinationList>
  </extension>
  <gslushc:dropShipment>>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```



#### 4.12.2 Sample XML: Buyer Receives Product

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.1 Exception 2-1A: Shortage discovered at Buyer - Buyer wants the missing
product- Correction made within 24 hours of the original shipment: Buyer (W) Receives Product
into inventory -->
<!--Use Case Example: While the physical shipment only contains two cases, the supporting
traceability data accounts for three cases. With two physical cases matching the supporting
traceability data, only the two cases that arrived are received into inventory by the Buyer.
```

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W) Corp.

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

W's DC receives pallet, unpacks 2 cases from pallet and records inferred receiving into inventory for the 8 LSUs contained in the 2 cases. Buyer notifies the Seller of the missing case SGTIN.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220037</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>

```

```

        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Receiving pallet -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567300</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
            <bizTransactionList>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E7: Wholesaler unpacks 2 cases from pallet -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
    <!-- E8a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:49:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        </childEPCs>
        <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>

```

```

    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E8b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.13 Exception 2-1B: Shortage discovered at receiving – Buyer wants to cancel the order for the missing product

**Note:** In this scenario the Buyer orders three cases from Seller. The Seller processes an order for three cases, but inadvertently ships only two cases\* to the Buyer. While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, the two cases that arrived are received into inventory by the Buyer. Seller ships the shortage past 24 hours of the original shipment and therefore must send the DSCSA transaction data to support the three cases received at the Buyer.

Reference File: [https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_13\\_2-1B\\_Shortage\\_BuyerWantsMissing\\_after\\_24hrs.zip](https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_13_2-1B_Shortage_BuyerWantsMissing_after_24hrs.zip)

### 4.13.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.2 Exception 2-1B: Shortage discovered at Buyer- Buyer wants the missing product
- Correction made after 24 hours of the original shipment: Seller Exchange1 -->
<!--Use Case Example: Buyer orders three cases from Seller. The Seller processes an order for
three cases, but inadvertently ships only two cases to the Buyer.
```

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs each.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
        <sbdh:DocumentIdentification>
          <sbdh:Standard>EPCglobal</sbdh:Standard>
          <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
          <sbdh:InstanceIdentifier>1100220038</sbdh:InstanceIdentifier>
          <sbdh:Type>Events</sbdh:Type>
          <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1a: Commissioning events (12 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            </epcList>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```



```

    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E1b: Commissioning events (3 case SNs 123, 456, 789) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>

```

```

    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
  </AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:52:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-22T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.41234567300</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>

```

```

        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E5: Shipping pallet with the manufacturer unaware that only 2 cases have
    been physically packed in the pallet. -->
<ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
    </bizTransactionList>
    <extension>
        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>

```

```

                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                </destinationList>
            </extension>
            <gslushc:dropShipment>false</gslushc:dropShipment>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.13.2 Sample XML: Buyer Receives Product 1

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.2 Exception 2-1B: Shortage discovered at Buyer- Buyer wants the missing product
- Correction made after 24 hours of the original shipment: Buyer (W) Receives Product into
inventory -->
<!--Use Case Example: While the physical shipment only contains two cases, the supporting
traceability data accounts for three cases. With two physical cases matching the supporting
traceability data, only the two cases that arrived are received into inventory by the Buyer.

```

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W) Corp. In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs. W's DC receives pallet, unpacks 2 cases from pallet and records inferred receiving into inventory for the 8 LSUs contained in the 2 cases. Buyer notifies the Seller of the missing case SGTIN.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220039</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
                <VocabularyList>

```

```

    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
      <VocabularyElementList>
        <!-- master data for lowest saleable unit -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
          <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
          <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
      </VocabularyElementList>
    </Vocabulary>
    <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
      <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
          <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
          <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
      </VocabularyElementList>
    </Vocabulary>
  
```

```

Agoura Rd</attribute>          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
500</attribute>              <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Village</attribute>          <attribute id="urn:epcglobal:cbv:mda#city">Westlake
                               <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                               </VocabularyElement>
                               <!-- Wholesaler -->
                               <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
Corp ABC</attribute>          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
                               <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>              <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                               <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                               <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                               </VocabularyElement>
                               <!-- Wholesaler's DC-->
                               <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
DC1</attribute>              <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
                               <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>              <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                               <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                               <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                               </VocabularyElement>
                               </VocabularyElementList>
                               </VocabularyList>
                               </VocabularyList>
                               </EPCISMasterData>
</extension>
<gs1ushc:guidelineVersion>GS1 US DSCSA R1.3</gs1ushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E6: Receiving pallet -->
    <ObjectEvent>
      <eventTime>2024-10-22T17:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.41234567300</epc>
      </epcList>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>

```

```

    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
      </destinationList>
    </extension>
  </ObjectEvent>
  <!-- E7: Wholesaler unpacks 2 cases from pallet -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
  <!-- E8a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>

```

```

        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
    (without unpacking the aggregated children from the parent) on the basis
of aggregation information
    (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
    <!-- E8b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:50:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        </childEPCs>
        <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
        <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
            <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
        </AggregationEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```



### 4.13.3 Sample XML: Exchange2 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.2 Exception 2-1B: Shortage discovered at Buyer- Buyer wants the missing product
- Correction made after 24 hours of the original shipment: Buyer (W) Receives Product into
inventory -->
<!--Use Case Example: While the physical shipment only contains two cases, the supporting
traceability data accounts for three cases. With two physical cases matching the supporting
traceability data, only the two cases that arrived are received into inventory by the Buyer.
```

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesaler (W)'s DC to Wholesaler (W) Corp.

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

W's DC receives pallet, unpacks 2 cases from pallet and records inferred receiving into inventory for the 8 LSUs contained in the 2 cases. Buyer notifies the Seller of the missing case SGTIN.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220039</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>

```

```

        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Receiving pallet -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567300</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
            <bizTransactionList>

```

```

        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E7: Wholesaler unpacks 2 cases from pallet -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
    <!-- E8a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-22T17:49:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        </childEPCs>
        <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>

```

```

    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
  <!-- E8b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.13.4 Sample XML: Buyer Receives Product 2

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.2 Exception 2-1B: Shortage discovered at Buyer- Buyer wants the missing product
- Correction made after 24 hours of the original shipment: Buyer (W) Receives Product into
inventory -->

```

<!--Use Case Example: While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, only the two cases that arrived are received into inventory by the Buyer.

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W) Corp.

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

W's DC receives pallet, unpacks 2 cases from pallet and records inferred receiving into inventory for the 8 LSUs contained in the 2 cases. Buyer notifies the Seller of the missing case SGTIN.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-24T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220041</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-24T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              </VocabularyElementList>
            </Vocabulary>
          </VocabularyList>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>

```

```

        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
  <VocabularyElementList>
    <!-- MFG -->
    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- MFG DC-->
    <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
      <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler -->
    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
      <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>

```

```

Ave S</attribute>
378</attribute>
1502</attribute>
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC-->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
DC1</attribute>
St</attribute>
100</attribute>
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
<attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
<attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
<attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
<EventList>
<!-- E12: Receiving shipper case -->
<ObjectEvent>
<eventTime>2024-10-24T17:45:16Z</eventTime>
<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<epcList>
<epc>urn:epc:id:sscc:030001.51234567101</epc>
</epcList>
<action>OBSERVE</action>
<bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
<id>urn:epc:id:sgln:039999.810234.0</id>
</readPoint>
<bizLocation>
<id>urn:epc:id:sgln:039999.810234.0</id>
</bizLocation>
<!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
<bizTransactionList>
<bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
<bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
</bizTransactionList>
<extension>

```



```

        <!-- Source Owning Party is MFG, Source Location is MFG DC -->
        <sourceList>
            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
        </sourceList>
        <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
        </destinationList>
    </extension>
</ObjectEvent>
<!-- E13: Wholesaler unpacks 1 case from shipper case -->
<AggregationEvent>
    <eventTime>2024-10-24T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567101</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.711</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
</AggregationEvent>
<!-- Without unpacking, record inferred receiving into inventory of 4 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
<!-- E14: Capture receipt of 4 LSUs inferred to be contained in case SN 711 using
Aggregation event -->
<AggregationEvent>
    <eventTime>2024-10-24T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.711</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.29</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.30</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>


```

```

        <!-- Note the use of GS1 US extension element, completeness_inferred, to
        indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
        of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
    -->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.14 Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order amended to exclude the missing product/quantity

 **Note:** In this scenario the Buyer orders three cases from Seller. Seller processes an order for three cases, but inadvertently ships only two cases\* to the Buyer. While the physical shipment only contains two cases, the supporting traceability data accounts for three cases. With two physical cases matching the supporting traceability data, the two cases that arrive are received into inventory by the Buyer. Buyer no longer wants the third case. Buyer requests that the Purchase Order be amended to exclude the missing case.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_14\\_2-1C\\_Shortage\\_BuyerWantsToExcludeMissingProd.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_14_2-1C_Shortage_BuyerWantsToExcludeMissingProd.zip)

### 4.14.1 Sample XML: Exchange - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.3 Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order
amended to exclude the missing product/quantity: Seller Exchange1 -->
<!--Use Case Example: Buyer orders three cases from Seller. The Seller processes an order for
three cases, but inadvertently ships only two cases to the Buyer.

```

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs each.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>

```

```

    <sbdh:InstanceIdentifier>1100220042</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
    </EPCISMasterData>
  </extension>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>

```

```

</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (12 LSUs: 4 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- Elb: Commissioning events (3 case SNs 123, 456, 789) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
  </EventList>
</EPCISBody>

```

```

</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:51:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E2c: Aggregation event (packing case SN 789 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:52:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>

```

```

        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 3 cases SNs 123, 456, 789) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E5: Shipping pallet with the manufacturer unaware that only 2 cases have
    been physically packed in the pallet. -->
<ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>

```

```

</bizTransactionList>
<extension>
  <!-- Source Owning Party is MFG, Source Location is MFG DC -->
  <sourceList>
    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
  </sourceList>
  <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
  <destinationList>
    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
  </destinationList>
</extension>
<gslushc:dropShipment>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.14.2 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.3 Exception 2-1C: Shortage discovered at Buyer - Buyer wants Purchase Order
amended to exclude the missing product/quantity: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: While the physical shipment only contains two cases, the supporting
traceability data accounts for three cases. With two physical cases matching the supporting
traceability data, only the two cases that arrived are received into inventory by the
Buyer. Buyer notifies the Seller of the missing case SGTIN. Since Buyer no longer wants the
third case, Buyer requests that the Purchase Order be amended to exclude the missing case.

```

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W) Corp.

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 3 cases of GTIN A. In this example, 3 cases of GTIN A contains 4 LSUs.

W's DC receives pallet, unpacks 2 cases from pallet and records inferred receiving into inventory for the 8 LSUs contained in the 2 cases.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>

```



```

    <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
  </sbdh:Receiver>
  <sbdh:DocumentIdentification>
    <sbdh:Standard>EPCglobal</sbdh:Standard>
    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>1100220043</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">

```



```
LLC</attribute>          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
Biopharm Ct</attribute> <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
A</attribute>           <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Oaks</attribute>       <attribute id="urn:epcglobal:cbv:mda#city">Thousand
                        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- MFG DC-->
                        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
Agoura Rd</attribute>  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
500</attribute>       <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Village</attribute>   <attribute id="urn:epcglobal:cbv:mda#city">Westlake
                        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Wholesaler -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>     <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Wholesaler's DC-->
                    <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
```

```

        </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Receiving pallet -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.41234567300</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from buying Wholesaler1, Delivery Document
created by MFG DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
            </bizTransactionList>
            <extension>
                <!-- Source Owning Party is MFG, Source Location is MFG DC -->
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E7: Wholesaler unpacks 2 cases from pallet -->
        <AggregationEvent>
            <eventTime>2024-10-22T17:48:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
            </childEPCs>
            <action>DELETE</action>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

<bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</bizLocation>
</AggregationEvent>
<!-- Without unpacking, record inferred receiving into inventory of 8 Lowest
Saleable Units (LSUs) contained in 2 cases with supporting DSCSA data -->
<!-- E8a: Capture receipt of 4 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
<AggregationEvent>
  <eventTime>2024-10-22T17:49:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </bizLocation>
  <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
(without unpacking the aggregated children from the parent) on the basis
of aggregation information
(e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
  <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
</AggregationEvent>
<!-- E8b: Capture receipt of 4 LSUs inferred to be contained in case SN 456 using
Aggregation event -->
<AggregationEvent>
  <eventTime>2024-10-22T17:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </childEPCs>
  <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>

```

```
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</bizLocation>
<!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
      (without unpacking the aggregated children from the parent) on the basis
of aggregation information
      (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
  <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 4.15 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer requests a replacement of the shortage.

**Note:** In this scenario the Buyer places an order for one case for Buyer's customer to be fulfilled via drop shipment by Seller. Seller processes the drop shipment order and ships an order of one case to the Buyer's customer with the accompanying traceability data for one case. The Buyer's customer receives the one sealed case and infers that there are twelve lowest saleable units inside. After receipt and then opening of the case, the Buyer's customer discovers there are only eleven lowest saleable units inside the case and reports the shortage to the Buyer (the party that they placed the order to). The Buyer informs Seller of the discrepancy. The Seller investigates the missing serialized lowest saleable unit, which should have been packed inside the serialized case and shipped to the Buyer's customer. To resolve the issue and match the purchased order quantity, the Seller drop ships a replacement lowest saleable unit to the Buyer's customer with accompanying traceability data.

*Reference File:* [https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_15\\_2-2A\\_QtyInference\\_ConcealedShort\\_BuyerReqReplacement\\_DropShip.zip](https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_15_2-2A_QtyInference_ConcealedShort_BuyerReqReplacement_DropShip.zip)

### 4.15.1 Sample XML: Exchange1: Seller1 -> Buyer2

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.4 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer requests a replacement of the shortage: Seller Exchange1 -->
<!--Use Case Example: Seller1 processes the drop shipment order and ships an order of one case with the accompanying traceability data for one case to Buyer2, who is Buyer1's customer .
```

- Seller1 is the original selling party.
- Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
- Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship the ordered products directly to Buyer2.
- Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.

This example shows the EPCIS message sent by Seller1 to Buyer2, the drop ship customer. In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220044</sbdh:InstanceIdentifier>
```

```

        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-
21T08:45:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
        <EPCISMasterData>
            <VocabularyList>
                <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                    <VocabularyElementList>
                        <!-- master data for lowest saleable unit -->
                        <VocabularyElement
id="urn:epc:idpat:sgtin:030001.0012345.*">
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
                                    </VocabularyElement>
                                    <!-- master data for case -->
                                    <VocabularyElement
id="urn:epc:idpat:sgtin:030001.1012345.*">
                                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
                                            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                                            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                                            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                                            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                                            <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
                                                </VocabularyElement>
                                                </VocabularyElementList>
                                            </Vocabulary>
                                            <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
                                                <VocabularyElementList>
                                                    <!-- MFG: Seller1 -->
                                                    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                                                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
                                                            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
                                                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite A</attribute>

```

```

                                <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                </VocabularyElement>
                                <!-- MFG DC: Seller1's DC -->
                                <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">2806 Agoura Rd</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                </VocabularyElement>
                                <!-- Wholesaler: Buyer1/Seller2 -->
                                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug
Wholesaler Corp</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park Ave S</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">New
York</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#state">NY</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                </VocabularyElement>
                                <!-- Dispenser's Retail Store: Buyer2 (Drop ship location) -
->
                                <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP Retail Store1</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main St</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#state">KY</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                                </VocabularyElement>

```



```

        </VocabularyElementList>
      </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement
>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of
FDCA Sec. 581(27) (A) - (G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- El1a: Commissioning events (12 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-
27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- El1b: Commissioning events (1 case SN 123) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>

```

```

        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
    <extension>
        <ilmd>
            <cbvmda:lotNumber>A123</cbvmda:lotNumber>
            <cbvmda:itemExpirationDate>2027-03-
27</cbvmda:itemExpirationDate>
        </ilmd>
    </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:50:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-21T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
<AggregationEvent>

```

```

<eventTime>2024-10-21T06:48:16Z</eventTime>
<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sscc:030001.51234567100</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111121.0</id>
</bizLocation>
</AggregationEvent>
<!-- E5: Shipping shipper case of 1 case ordered
  Buyer1 provides PO for the order (PO XYZ567) and Buyer2's ship-to
location, the drop shipment information. -->
<ObjectEvent>
  <eventTime>2024-10-21T07:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567100</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created
by Seller1's DC -->
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransact
ion>
    <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransa
ction>
  </bizTransactionList>
  <extension>
    <!-- Source Owning Party is Seller1, Source Location is Seller1's DC
-->
    <sourceList>
      <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
      <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
    </sourceList>
    <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer2's drop ship location -->
    <destinationList>
      <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
      <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
    </destinationList>
  </extension>
  <gslushc:dropShipment>true</gslushc:dropShipment>
</ObjectEvent>

```

```

    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>

```

#### 4.15.2 Sample XML: Buyer2 Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.4 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer
requests a replacement of the shortage: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: One shipper case containing case SN 123 arrives at Buyer2's dock,
who is Buyer1's customer's drop ship location.
  • Seller1 is the original selling party.
  • Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
  • Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1
to ship the ordered products directly to Buyer2.
  • Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.

```

For internal operations, Buyer2 optionally records EPCIS Receiving and/or Unpacking data.

This example shows the EPCIS message sent internally by Drop Ship Customer's Retail store to Drop Ship Customer's corporate office.

In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.

Buyer2 receives shipper case, and unpacks case from shipper case. Without unpacking the LSUs from case 123, Buyer2 receives case SN 123 into inventory with inferred quantity of 12.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-
1_2.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-
21T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220045</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-
21T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process
since this is assumed to be an internal operation. This is included in this example for

```

illustration purposes to depict the EPCIS events and master data involved in the end to end choreography.

```
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement
id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
            </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement
id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG: Seller1 -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC: Seller1's DC -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">2806 Agoura Rd</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug
Wholesaler Corp</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park Ave S</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New
York</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser: Buyer2 -->
        <VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser
Corp</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">630 Fairview Ave</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Burien</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98166</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser's Retail Store: Buyer2 (Drop ship location) -
->
        <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP Retail Store1</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main St</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Receiving shipper case of 1 case ordered (SN 123) -->
        <ObjectEvent>
            <eventTime>2024-10-21T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.51234567100</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:084436921.568.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:084436921.568.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created
by Seller1's DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransact
ion>
                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransa
ction>
            </bizTransactionList>
            <extension>
                <!-- Source Owning Party is Seller1, Source Location is Seller1's DC
-->
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer2's drop ship location -->
                <destinationList>

```

```

        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
        </destinationList>
    </extension>
</ObjectEvent>
<!-- E7: Buyer2 unpacks case 123 from shipper case. -->
<AggregationEvent>
    <eventTime>2024-10-21T17:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:084436921.568.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:084436921.568.0</id>
    </bizLocation>
</AggregationEvent>
<!-- Without unpacking, record inferred receiving into inventory of 12
Lowest Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
<!-- E8: Capture receipt of 12 LSUs inferred to be contained in case SN 123
using Aggregation event -->
<AggregationEvent>
    <eventTime>2024-10-21T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:084436921.568.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:084436921.568.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation

```



```

        (without unpacking the aggregated children from the parent) on the
basis of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream
supplier. -->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.15.3 Buyer2 Unpacks Product and Discovers Shortage

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.4 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer
requests a replacement of the shortage: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: Buyer2, the Buyer1's customer who is also the drop ship customer,
opens case SN 123 and discovers there are only eleven SNs inside. SN 12 is unexpectedly
missing. Buyer2 notifies Seller2 of the missing lowest saleable unit providing the
SGTIN.

```

- Seller1 is the original selling party.
- Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
- Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship the ordered products directly to Buyer2.
- Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.

For internal operations, Buyer2, optionally records EPCIS Unpacking event.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-
1_2.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-
24T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220046</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-10-
24T18:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
    <extension>
        <EPCISMasterData>

```

```

        <!--Note: Master data in EPCIS Header is optional for Receiving process
        since this is assumed to be an internal operation. This is included in this example for
        illustration purposes to depict the EPCIS events and master data involved in the end to
        end choreography.
        -->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement
id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
              </VocabularyElement>
              <!-- master data for case -->
              <VocabularyElement
id="urn:epc:idpat:sgtin:030001.1012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
          <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
            <VocabularyElementList>
              <!-- Dispenser: Buyer2 -->
              <VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser
Corp</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">630 Fairview Ave</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 100</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#city">Burien</attribute>
            </VocabularyElementList>
          </Vocabulary>
        </VocabularyList>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98166</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Dispenser's Retail Store: Buyer2 (Drop ship location) -
->
        <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP Retail Store1</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main St</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E9: Buyer2, the drop ship customer, unpacks the contents of case SN
123.
        Buyer2 discovers that there are only eleven SNs inside.
        SN 12 is unexpectedly missing. -->
    <AggregationEvent>
        <eventTime>2024-10-24T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:084436921.568.0</id>
        </readPoint>

```

```

        <bizLocation>
            <id>urn:epc:id:sgln:084436921.568.0</id>
        </bizLocation>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.15.4 Sample XML: Exchange2 – Seller1 -> Buyer2

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.4 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer
requests a replacement of the shortage: Seller Exchange2 -->
<!--Use Case Example: Since Buyer2 (drop ship customer) wants to receive missing product
and Seller1 agrees to drop ship missing product, Seller1 physically ships another unit
to Buyer2 with the accompanying traceability data for one unit to replace the missing
unit in the previous shipment.

```

- Seller1 is the original selling party.
- Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
- Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship the ordered products directly to Buyer2.
- Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.

This example shows the EPCIS message sent by Seller1 to Buyer2 who is Buyer1's customer and the party receiving the drop shipment from Seller1.

In this scenario, the DSCSA data accompanying replacement shipment supports 1 shipper case containing 1 lowest saleable unit of GTIN A.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-
1_2.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-
25T08:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220047</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-10-
25T08:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>

```

```

    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
      <VocabularyElementList>
        <!-- master data for lowest saleable unit -->
        <VocabularyElement
id="urn:epc:idpat:sgtin:030001.0012345.*">
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
          <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement
id="urn:epc:idpat:sgtin:030001.1012345.*">
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
          <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
        </VocabularyElement>
      </VocabularyElementList>
    </Vocabulary>
    <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
      <VocabularyElementList>
        <!-- MFG: Seller1 -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
          <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite A</attribute>
          <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
          <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
      </VocabularyElementList>
    </Vocabulary>
  
```

```

        <!-- MFG DC: Seller1's DC -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">2806 Agoura Rd</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug
Wholesaler Corp</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park Ave S</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New
York</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser's Retail Store: Buyer2 (Drop ship location) -
->
        <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP Retail Store1</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main St</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#state">KY</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
    <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement
>

```

```

    <gslushc:legalNotice>Seller has complied with each applicable subsection of
FDCA Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
  </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E1: Commissioning events (1 LSU as replacement unit) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.246</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-07-
31</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E10: Commissioning event (1 shipper case) at the MFG DC -->
    <ObjectEvent>
      <eventTime>2024-10-25T06:47:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:030001.51234567200</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
      </bizLocation>
    </ObjectEvent>
    <!-- E11: Aggregation event (packing shipper case with 1 LSU 246) -->
    <AggregationEvent>
      <eventTime>2024-10-25T06:48:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.246</epc>
      </childEPCs>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
      </readPoint>

```

```

    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E12: Shipping shipper case for replacement LSU
    Use the same PO from previous shipment (PO XYZ567) -->
  <ObjectEvent>
    <eventTime>2024-10-25T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567200</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created
  by Seller1's DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransact
ion>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransa
ction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is Seller1, Source Location is Seller1's DC
-->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer2's drop ship location -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
      </destinationList>
    </extension>
    <gslushc:dropShipment>true</gslushc:dropShipment>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.15.5 Sample XML: Buyer2 Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.4 Exception 2-2A: Quantity inference problem (concealed shortage) - Buyer
requests a replacement of the shortage: Buyer (W) Receives Product into inventory -->

```



<!--Use Case Example: One shipper case containing replacement unit arrives at Buyer2's dock, who is Buyer1's customer's drop ship location.

- Seller1 is the original selling party.
- Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
- Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship the ordered products directly to Buyer2.
- Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.

For internal operations, Buyer2 optionally records EPCIS Receiving and/or Unpacking data.

This example shows the EPCIS message sent internally by Drop Ship Customer's Retail store to Drop Ship Customer's corporate office.

In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 lowest saleable unit GTIN A.

Buyer2 receives shipper case, and unpacks replacement unit from shipper case.

-->

```
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-
1_2.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-
26T18:45:16Z">
```

```
<EPCISHeader>
```

```
<sbdh:StandardBusinessDocumentHeader>
```

```
<sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
```

```
<sbdh:Sender>
```

```
<sbdh:Identifier
```

```
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
```

```
</sbdh:Sender>
```

```
<sbdh:Receiver>
```

```
<sbdh:Identifier
```

```
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>
```

```
</sbdh:Receiver>
```

```
<sbdh:DocumentIdentification>
```

```
<sbdh:Standard>EPCglobal</sbdh:Standard>
```

```
<sbdh:TypeVersion>1.0</sbdh:TypeVersion>
```

```
<sbdh:InstanceIdentifier>1100220048</sbdh:InstanceIdentifier>
```

```
<sbdh:Type>Events</sbdh:Type>
```

```
<sbdh:CreationDateAndTime>2024-10-
```

```
26T18:45:16Z</sbdh:CreationDateAndTime>
```

```
</sbdh:DocumentIdentification>
```

```
</sbdh:StandardBusinessDocumentHeader>
```

```
<extension>
```

```
<EPCISMasterData>
```

<!--Note: Master data in EPCIS Header is optional for Receiving process since this is assumed to be an internal operation. This is included in this example for illustration purposes to depict the EPCIS events and master data involved in the end to end choreography.

-->

```
<VocabularyList>
```

```
<Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
```

```
<VocabularyElementList>
```

```
<!-- master data for lowest saleable unit -->
```

```
<VocabularyElement
```

```
id="urn:epc:idpat:sgtin:030001.0012345.*">
```

```
<attribute
```

```
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
```

```
<attribute
```

```
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribu
te>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement
id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#netContentDescription">500 pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG: Seller1 -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC: Seller1's DC -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">2806 Agoura Rd</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug
Wholesaler Corp</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park Ave S</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New
York</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser: Buyer2 -->
        <VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser
Corp</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">630 Fairview Ave</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Burien</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98166</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser's Retail Store: Buyer2 (Drop ship location) -
->
        <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP Retail Store1</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main St</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 500</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
</Vocabulary>

```

```

        </VocabularyList>
    </EPCISMasterData>
</extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E13: Receiving shipper case of 1 case ordered (SN 123) -->
        <ObjectEvent>
            <eventTime>2024-10-26T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.51234567200</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:084436921.568.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:084436921.568.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created
by Seller1's DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransact
ion>
                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransa
ction>
            </bizTransactionList>
            <extension>
                <!-- Source Owning Party is Seller1, Source Location is Seller1's DC
-->
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer2's drop ship location -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E14: Buyer2 unpacks LSU 246 from shipper case. -->
        <AggregationEvent>
            <eventTime>2024-10-26T17:48:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.246</epc>
            </childEPCs>
            <action>DELETE</action>
    </EventList>
</EPCISBody>
</EPCISHeader>
</EPCISMasterData>
</VocabularyList>
</EPCISDocument>

```

```
<bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:084436921.568.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:084436921.568.0</id>
</bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 4.16 Exception 2-2B: Quantity inference problem (concealed shortage) – Buyer does not want to receive replacement for the shortage

**Note:** In this scenario the Buyer places an order for one case from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the case\*. The Buyer receives the sealed case and infers that there are twelve lowest saleable units inside. The Buyer then ships that same case intact to their customer. After receipt and then opening of the case, the Buyer's customer discovers there are only eleven lowest saleable units inside the case and reports the shortage to the Buyer (the party that they placed the order to). Buyer's customer requests that the Purchase Order be amended to exclude the missing lowest saleable unit. The Buyer informs the Seller of the discrepancy. The Seller investigates the missing serialized lowest saleable unit, which should have been packed inside the serialized case and shipped to the Buyer. To resolve the issue, the Seller amends the Buyer's Purchase Order for the missing lowest saleable unit. The Buyer does the same for their customer.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_16\\_2-2B\\_QtyInference\\_ConcealedShort\\_NoReplacement.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_16_2-2B_QtyInference_ConcealedShort_NoReplacement.zip)

### 4.16.1 Sample XML: Exchange1: Seller1 -> Buyer1

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.5 Exception 2-2B: Quantity inference problem (concealed shortage) - Buyer does
not want to receive replacement for the shortage: Seller Exchange1 -->
<!-- This scenario depicts an extended supply chain distribution model; there are 2 selling
parties and 2 purchasing parties:
• Seller1 is the original selling party.
• Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
• Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship
the ordered products directly to Buyer2.
• Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.
-->
<!--Use Case Example: Seller1 (MFG) processes the order for 1 case and provides Buyer1 (W) with
DSCSA transaction data.
This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1
case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
        <sbdh:DocumentIdentification>
          <sbdh:Standard>EPCglobal</sbdh:Standard>
          <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
    </EPCISHeader>
  </epcis:EPCISDocument>
```

```

    <sbdh:InstanceIdentifier>1100220049</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- MFG: Seller1 -->
          <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
</extension>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC: Seller1's DC -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2's DC -->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27)(A)-(G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>

```



```

</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E1a: Commissioning events (12 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E1b: Commissioning events (1 case SN 123) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->

```

```

<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing shipper case with case SN 123) -->
<AggregationEvent>
  <eventTime>2024-10-21T06:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111121.0</id>
  </bizLocation>

```

```

        </bizLocation>
    </AggregationEvent>
    <!-- E5: Shipping shipper case of 1 case ordered -->
    <ObjectEvent>
        <eventTime>2024-10-21T07:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sscc:030001.51234567100</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created by
Seller1's DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is Seller1, Source Location is Seller1's DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Buyer1, Destination Location is
Buyer1/Seller2's DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.16.2 Sample XML: Buyer1 Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.5 Exception 2-2B: Quantity inference problem (concealed shortage) - Buyer does
not want to receive replacement for the shortage: Buyer (W) Receives Product into inventory -->
<!-- This scenario depicts an extended supply chain distribution model; there are 2 selling
parties and 2 purchasing parties:
• Seller1 is the original selling party.
• Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
• Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship
the ordered products directly to Buyer2.
• Buyer2 is Buyer1's customer and the party receiving the drop shipment from Seller1.

```

```
-->
<!--Use Case Example: One shipper case containing case SN 123 arrives at Buyer's dock. Using
inference to confirm receipt of the entire case, the quantity of units in the case are
implied. Buyer receives case into inventory.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case
of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
W's DC receives shipper case, and unpacks case from shipper case. Without unpacking the LSUs
from case 123, Buyer receives case SN 123 into inventory with inferred quantity of 12.
-->
```

```
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T18:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220050</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-21T18:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
```

```

        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG: Seller1 -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC: Seller1's DC -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2 -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
    </VocabularyElementList>
</Vocabulary>

```



```
378</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
    <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    <!-- Wholesaler: Buyer1/Seller2's DC -->
    <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
    </VocabularyList>
    </EPCISMasterData>
</extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
    <!-- E6: Receiving shipper case of 1 case ordered (SN 123) -->
    <ObjectEvent>
    <eventTime>2024-10-21T17:45:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
    <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
    <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- 2 business documents: 1 PO from Buyer1, Delivery Document created by
Seller1's DC -->
    <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
    <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
    <!-- Source Owning Party is Seller1, Source Location is Seller1's DC -->
    <sourceList>
```

```

                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owing Party is Buyer1, Destination Location is
Buyer1/Seller2's DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E7: Wholesaler unpacks case 123 from shipper case. -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        </childEPCs>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.810234.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- Without unpacking, record inferred receiving into inventory of 12 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
    <!-- E8: Capture receipt of 12 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
    <AggregationEvent>
        <eventTime>2024-10-21T17:49:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
        </childEPCs>
        <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>

```

```

        <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
        (without unpacking the aggregated children from the parent) on the basis
of aggregation information
        (e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
        <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
    </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.16.3 Sample XML: Exchange2 – Seller2 -> Buyer2

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.5 Exception 2-2B: Quantity inference problem (concealed shortage) - Buyer does
not want to receive replacement for the shortage: Seller Exchange2 -->
<!-- This scenario depicts an extended supply chain distribution model, there are 2 selling
parties and 2 purchasing parties:
• Seller1 is the original selling party.
• Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
• Buyer1 is the original party who purchased from Seller1.
• Buyer2 is Buyer1's customer and the buyer of product from Seller2.
-->
<!--Use Case Example: Buyer2 places order for one case. Seller2 processes order for one case
and ships case SN 123 to Buyer2. The case previously received by Seller2 is kept intact and
shipped to Buyer2.
This example shows the EPCIS message sent by Seller2 (W) to Buyer2 (D).
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1
case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-11-21T08:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220051</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-11-21T08:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
    </EPCISHeader>

```



```

    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <!-- master data for lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
            <!-- master data for case -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
          <VocabularyElementList>
            <!-- MFG (Seller1) -->
            <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
              <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
              <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
              <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
              <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
              <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
      </VocabularyList>
    </EPCISMasterData>
  </extension>

```

```

<!-- Wholesaler (Buyer1/Seller2) -->
<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
  <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
  <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
  <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Wholesaler's DC (Buyer1/Seller2) -->
<VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
  <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Dispenser (Buyer2) -->
<VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM
CORP</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">7200
Hale Ave.</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100A</attribute>
  <attribute id="urn:epcglobal:cbv:mda#city">Los
Angeles</attribute>
  <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#postalCode">90019</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
</VocabularyElement>
<!-- Dispenser's Retail Store (Buyer2's Retail Store) -->
<VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
  <attribute id="urn:epcglobal:cbv:mda#name">GS1 DISP PHRM CORP
Retail Store1</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">725 Main
St</attribute>
  <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
  <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
  <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>

```

```

        <attribute
id="urn:epcglobal:cbv:mدا#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581(27) (A)-(G).</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (12 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmدا:lotNumber>A123</cbvmدا:lotNumber>
          <cbvmدا:itemExpirationDate>2027-03-27</cbvmدا:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- Elb: Commissioning events (1 case SN 123) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:46:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>

```

```

<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</bizLocation>
<extension>
  <ilmd>
    <cbvmda:lotNumber>A123</cbvmda:lotNumber>
    <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
  </ilmd>
</extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E9: Commissioning event (1 shipper case of GTIN A) at the Wholesaler's DC -->
<ObjectEvent>
  <eventTime>2024-11-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:039999.71234567300</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </bizLocation>
</ObjectEvent>
<!-- E10: Aggregation event (packing shipper case with case SN 123) -->
<AggregationEvent>

```

```

<eventTime>2024-11-21T06:48:16Z</eventTime>
<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sscc:039999.71234567300</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:039999.810234.0</id>
</bizLocation>
</AggregationEvent>
<!-- E11: Shipping shipper case of 1 case ordered -->
<ObjectEvent>
  <eventTime>2024-11-21T07:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:039999.71234567300</epc>
  </epcList>
  <action>OBSERVE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:039999.810234.0</id>
  </readPoint>
  <!-- 2 business documents: 1 PO from buying Dispenser (Buyer2), Delivery
Document created by W (Seller2's DC) -->
  <bizTransactionList>
    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0844369215671:POACC711</bizTransaction>
    <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0399999999991:DEL200</bizTransaction>
  </bizTransactionList>
  <extension>
    <!-- Source Owning Party is Seller2 , Source Location is Seller2's DC -->
    <sourceList>
      <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</source>
      <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</source>
    </sourceList>
    <!-- Destination Owning Party is Buyer2, Destination Location is Buyer2's
Retail Store -->
    <destinationList>
      <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:084436921.567.0</destination>
      <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
    </destinationList>
  </extension>
  <gslushc:dropShipment>>false</gslushc:dropShipment>
  <!-- Set directPurchase @qualifier to ENTIRELY_DIRECT in the Shipping data.
Omit indirectPurchaseEPCs since the entire shipment from W to D is
directly purchased by W from MFG.
Include directPurchaseStatement.
-->
  <gslushc:directPurchase qualifier="ENTIRELY_DIRECT">

```

```

        <directPurchaseStatement>Seller affirms that indicated product(s) were
purchased directly from the manufacturer, exclusive distributor of the manufacturer, or a
repackager who purchased directly unless noted as being indirectly
sourced.</directPurchaseStatement>
        </gslushc:directPurchase>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.16.4 Sample XML: Buyer2 Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.5 Exception 2-2B: Quantity inference problem (concealed shortage) - Buyer does
not want to receive replacement for the shortage: Buyer2 (D) Receives Product into inventory --
>
<!-- This scenario depicts an extended supply chain distribution model, there are 2 selling
parties and 2 purchasing parties:
• Seller1 is the original selling party.
• Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
• Buyer1 is the original party who purchased from Seller1.
• Buyer2 is Buyer1's customer and the buyer of product from Seller2.
-->
<!--Use Case Example: Buyer2 receives one case. Upon opening and unpacking the case, the
Buyer2 discovers a shortage of one lowest saleable unit. Buyer receives the eleven serialized
lowest saleable units into inventory ignoring the additional data received. Buyer2 notifies
Seller2 of the missing SGTIN. Buyer informs Seller2 to amend PO since it does not want to
receive missing product.

```

For internal operations, W optionally records EPCIS Receiving and/or Unpacking data. This example shows the EPCIS message sent internally by Buyer2's Retail Store to Buyer2's Corp. D's Retail Store receives shipper case, and unpacks case from shipper case. After unpacking the LSUs from case 123, Buyer receives the 11 LSUs with DSCSA data and reports shortage to Seller2.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-11-21T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.568.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:084436921.567.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100220052</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2024-11-21T18:45:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>

```

```

</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <!-- master data for lowest saleable unit -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
          <!-- master data for case -->
          <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- Wholesaler: Buyer1/Seller2 -->
          <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
          </VocabularyElementList>
        </Vocabulary>
      </VocabularyList>
    </EPCISMasterData>
  </extension>
</StandardBusinessDocumentHeader>

```

```

        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler: Buyer1/Seller2's DC -->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser: Buyer2 -->
        <VocabularyElement id="urn:epc:id:sgln:084436921.567.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">630
Fairview Ave</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Burien</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98166</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Dispenser Retail Store: Buyer2's Retail Store -->
        <VocabularyElement id="urn:epc:id:sgln:084436921.568.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Dispenser Retail
Store1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">225
Terry Ave N</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
600</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Seattle</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">WA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">98109</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E12: Receiving shipper case of 1 case ordered (SN 123) -->
        <ObjectEvent>
            <eventTime>2024-11-21T17:45:16Z</eventTime>

```



```

<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<epcList>
  <epc>urn:epc:id:sscc:039999.71234567300</epc>
</epcList>
<action>OBSERVE</action>
<bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:084436921.568.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:084436921.568.0</id>
</bizLocation>
<!-- 2 business documents: 1 PO from Buyer2, Delivery Document created by
Seller2's DC -->
<bizTransactionList>
  <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0844369215671:POACC711</bizTransaction>
  <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0399999999991:DEL200</bizTransaction>
</bizTransactionList>
<extension>
  <!-- Source Owning Party is Seller2, Source Location is Seller2's DC -->
  <sourceList>
    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</source>
    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</source>
  </sourceList>
  <!-- Destination Owning Party is Buyer2, Destination Location is Buyer2's
Retail Store -->
  <destinationList>
    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:084436921.567.0</destination>
    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:084436921.568.0</destination>
  </destinationList>
</extension>
</ObjectEvent>
<!-- E13a: Buyer2's Retail store unpacks case 123 from shipper case. -->
<AggregationEvent>
  <eventTime>2024-11-21T17:48:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:039999.71234567300</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </childEPCs>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:084436921.568.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:084436921.568.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E13b: Buyer2's Retail store unpacks LSUs from case 123.
Buyer2's Retail store discovers there are 11 SNs inside.
SN 12 is unexpectedly found missing.-->
<AggregationEvent>


```

```

<eventTime>2024-11-21T17:49:16Z</eventTime>
<eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
  <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
</childEPCs>
<action>DELETE</action>
<bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:084436921.568.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:084436921.568.0</id>
</bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.17 Exception 2-3: Shipment is cancelled and subsequent shipment containing same product is sent to Buyer.

 **Note:** In this scenario the Buyer orders one case from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the case. The Buyer cancels the order while the shipment is in transit. The EPCIS file had already been sent by the Seller when the shipment left the Seller's facility. The Buyer subsequently places an order the next day for a case of the same product in which the same prepared shipment can be sent.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_17\\_2-3\\_ShipmentCancelledSubShipSameProd.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_17_2-3_ShipmentCancelledSubShipSameProd.zip)

### 4.17.1 Sample XML: Exchange1 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.6 Exception 2-3: Shipment is cancelled and subsequent shipment containing same product is sent to Buyer: Seller Exchange1 -->
<!--Use Case Example: Seller (MFG) processes the order for 1 case and provides Buyer (W) with DSCSA transaction data. The Buyer cancels the order while the shipment is in transit. The EPCIS file had already been sent by the Seller when the shipment left the Seller's facility. The Buyer subsequently places an order the next day for a case of the same product in which the same prepared shipment can be sent.

```

This example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W)

In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-21T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100220060</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2024-10-21T08:45:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
      <extension>
        <EPCISMasterData>
          <VocabularyList>
            <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
              <VocabularyElementList>
                <!-- master data for lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                  <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                </VocabularyElement>
                <!-- master data for case -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                  <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                </VocabularyElement>
              </VocabularyElementList>
            </Vocabulary>
          </VocabularyList>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>
```

```

        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>

```

```

St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
100</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
    <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    </VocabularyElement>
    </VocabularyElementList>
    </Vocabulary>
  </VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
<gslushc:dscsaTransactionStatement>
  <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
  <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G) .</gslushc:legalNotice>
</gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- Ela: Commissioning events (12 LSUs per case) -->
    <ObjectEvent>
      <eventTime>2024-03-27T06:45:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>A123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
    <!-- Elb: Commissioning events (1 case SN 123) -->

```

```

<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
  <eventTime>2024-10-21T06:47:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sscc:030001.51234567100</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>

```

```

    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </ObjectEvent>
  <!-- E4: Aggregation event (packing shipper case with 1 case SN 123) -->
  <AggregationEvent>
    <eventTime>2024-10-21T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567100</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- E5: Shipping shipper case of 1 case ordered -->
  <ObjectEvent>
    <eventTime>2024-10-21T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
      <epc>urn:epc:id:sscc:030001.51234567100</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
    <bizTransactionList>
      <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
      <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL100</bizTransaction>
    </bizTransactionList>
    <extension>
      <!-- Source Owning Party is MFG, Source Location is MFG DC -->
      <sourceList>
        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
      </sourceList>
      <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
      <destinationList>
        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>

```

```

        </destinationList>
    </extension>
    <gslushc:dropShipment>false</gslushc:dropShipment>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.17.2 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.6 Exception 2-3: Shipment is cancelled and subsequent shipment containing same
product is sent to Buyer: Seller Exchange2 -->
<!--Use Case Example: Seller (MFG) processes the order subsequently placed by the Buyer for a
case of the same product in a shipment to the same Buyer that was previously cancelled. Seller
(MFG) processes the Buyer's subsequent order for 1 case and provides Buyer (W) with DSCSA
transaction data.

```

In this scenario, this example shows the EPCIS message sent by Manufacturer (MFG) to WholesalerDistributor (W) Seller supporting the shipment of same case under new SSCC with the updated date and time.

The DSCSA data accompanying shipment supports 1 shipper case containing 1 case of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.

```

-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220061</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <!-- master data for lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>

```



```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
        <!-- master data for case -->
        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    
```

```

        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1a: Commissioning events (12 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
            </epcList>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E1b: Commissioning events (1 case SN 123) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2: Aggregation event (packing case SN 123 with 12 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
  </childEPCs>

```

```

        <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E6: Commissioning event (1 shipper case of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567200</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E7: Aggregation event (packing shipper case with 1 case SN 123) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</AggregationEvent>
<!--E8: Shipping shipper case of 1 case ordered -->
<ObjectEvent>
    <eventTime>2024-10-22T07:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.51234567200</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>

```

```

        </readPoint>
        <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ987</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

### 4.17.3 Sample XML: Buyer Receives Product

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.6 Exception 2-3: Shipment is cancelled and subsequent shipment containing same
product is sent to Buyer: Buyer (W) Receives Product into inventory -->
<!--Use Case Example: One shipper case containing case SN 123 arrives at Buyer's dock.
For internal operations, W optionally records EPCIS Receiving and/or Unpacking data.
This example shows the EPCIS message sent internally by Wholesler (W)'s DC to Wholesaler (W)
Corp.
In this scenario, the DSCSA data accompanying shipment supports 1 shipper case containing 1 case
of GTIN A. In this example, 1 case of GTIN A contains 12 LSUs.
W's DC receives shipper case, and unpacks case from shipper case. Without unpacking the LSUs
from case 123, Buyer receives case SN 123 into inventory with inferred quantity of 12.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T18:45:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.810234.0</sbdh:Identifier>
                </sbdh:Sender>

```

```

    <sbdh:Receiver>
      <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
    </sbdh:Receiver>
    <sbdh:DocumentIdentification>
      <sbdh:Standard>EPCglobal</sbdh:Standard>
      <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      <sbdh:InstanceIdentifier>1100220062</sbdh:InstanceIdentifier>
      <sbdh:Type>Events</sbdh:Type>
      <sbdh:CreationDateAndTime>2024-10-22T18:45:16Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <!--Note: Master data in EPCIS Header is optional for Receiving process since
this is assumed to be an internal operation. This is included in this example for illustration
purposes to depict the EPCIS events and master data involved in the end to end choreography.
-->
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <!-- master data for lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
            <!-- master data for case -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
              <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
          <VocabularyElementList>
            <!-- MFG -->
            <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">

```

```

LLC</attribute>          <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
Biopharm Ct</attribute> <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
A</attribute>           <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Oaks</attribute>       <attribute id="urn:epcglobal:cbv:mda#city">Thousand
                        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- MFG DC-->
                        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
Agoura Rd</attribute>  <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
500</attribute>        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
Village</attribute>    <attribute id="urn:epcglobal:cbv:mda#city">Westlake
                        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Wholesaler -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>      <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Wholesaler's DC-->
                        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>

```

```

        </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E9: Receiving shipper case of 1 case ordered (SN 123) -->
        <ObjectEvent>
            <eventTime>2024-10-22T17:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:030001.51234567200</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.810234.0</id>
            </bizLocation>
            <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ987</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL200</bizTransaction>
            </bizTransactionList>
            <extension>
                <!-- Source Owning Party is MFG, Source Location is MFG DC -->
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
                </sourceList>
                <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E10: Wholesaler unpacks case 123 from shipper case. -->
        <AggregationEvent>
            <eventTime>2024-10-22T17:48:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:030001.51234567200</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            </childEPCs>
            <action>DELETE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    </EventList>
</EPCISBody>
</EPCIS>

```




```

    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Without unpacking, record inferred receiving into inventory of 12 Lowest
Saleable Units (LSUs) contained in 1 case with supporting DSCSA data -->
  <!-- E11: Capture receipt of 12 LSUs inferred to be contained in case SN 123 using
Aggregation event -->
  <AggregationEvent>
    <eventTime>2024-10-22T17:49:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
      <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.19</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.20</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
      <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
    </childEPCs>
    <!-- Populate with action=OBSERVE since the Aggregation Event is used to
reflect what is being received -->
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </readPoint>
    <bizLocation>
      <id>urn:epc:id:sgln:039999.810234.0</id>
    </bizLocation>
    <!-- Note the use of GS1 US extension element, completeness_inferred, to
indicate the inferred integrity of that aggregation
of aggregation information
(e.g., earlier EPCIS packing event data) provided by an upstream supplier.
-->
    <gslushc:completeness_inferred>true</gslushc:completeness_inferred>
  </AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## 4.18 Exception 2-4A: Undelivered Shipment – Product is stolen.

 **Note:** In this scenario the Buyer orders two cases from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the two cases. The products are not delivered to the Buyer, who receives an invoice for the missing shipment from the Seller. The Buyer notifies the Seller of the missing serialized products and disputes the invoice. Upon investigating the issue, the Seller determines the product was stolen. This typically requires the Seller to follow their 3911-submission process in addition to dispositioning the product as stolen. Although this situation does not require data exchange amongst trading partners, it can require a change in each of the respected trading partners' systems.

*Reference File:* [https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_18\\_2-4A\\_UndeliveredShipment\\_StolenProduct.zip](https://www.gs1us.org/content/dam/g1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_18_2-4A_UndeliveredShipment_StolenProduct.zip)

### 4.18.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.7 Exception 2-4A: Undelivered Shipment - Product is stolen: Seller Exchange1 -->
<!--Use Case Example: Buyer orders two cases from Seller. Seller processes and ships the order
to the Buyer with the accompanying traceability data for the two cases. The products are not
delivered to the Buyer, who receives an invoice for the missing shipment from the Seller.
```

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 2 cases of GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs each.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220063</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
    <!-- master data for case -->
    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1a: Commissioning events (8 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            </epcList>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCISMessage>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E1b: Commissioning events (2 case SNs 123, 456) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>

```

```

        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 2 cases SNs 123, 456) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>

```

```

        </bizLocation>
    </AggregationEvent>
    <!-- E5: Shipping pallet -->
    <ObjectEvent>
        <eventTime>2024-10-22T07:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sscc:030001.41234567300</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.18.2 Sample XML: Exchange2 - Seller -> Buyer

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.7 Exception 2-4A: Undelivered Shipment - Product is stolen: Seller Exchange2 -->
<!--Use Case Example: After being notified that the shipment never arrived, the Seller
investigates and determines the shipment is stolen. Seller follows its 3911-submission process
and dispositions the product appropriately. Seller sets disposition for SGTINs in cases 123
and 456 to stolen.

```

Although this situation does not require data exchange amongst trading partners, the Seller can optionally send an EPCIS message to the Buyer communicating the stolen disposition for the SGTINs reported by Buyer.

In this scenario, the Seller sends an EPCIS message with an object event listing the SGTINs that are determined to have been stolen with the disposition of stolen.


```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-11-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220064</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-11-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
              </VocabularyElement>
              <!-- master data for case -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
            </VocabularyElementList>
          </Vocabulary>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>
```





```
<epc>urn:epc:id:sgtin:030001.0012345.15</epc>
<epc>urn:epc:id:sgtin:030001.0012345.16</epc>
<epc>urn:epc:id:sgtin:030001.0012345.17</epc>
<epc>urn:epc:id:sgtin:030001.0012345.18</epc>
<epc>urn:epc:id:sgtin:030001.1012345.123</epc>
<epc>urn:epc:id:sgtin:030001.1012345.456</epc>
</epcList>
<action>OBSERVE</action>
<disposition>urn:epcglobal:cbv:disp:stolen</disposition>
<readPoint>
  <id>urn:epc:id:sgln:030001.111111.0</id>
</readPoint>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 4.19 Exception 2-4B: Damaged product discovered at receiving – Seller authorizes Buyer to destroy product

 **Note:** In this scenario the Buyer orders two cases from Seller. Seller processes and ships the order to the Buyer with the accompanying traceability data for the two cases. The products are not delivered to the Buyer who receives an invoice for the missing shipment. The Buyer notifies the Seller of the missing serialized products and disputes the invoice. Upon investigating the issue, the Seller determines that the product was lost in transit due to a delivery issue that occurred and disposes of the product appropriately. Although this situation does not require data exchange amongst trading partners, it can require a change in each of the respected trading partners' systems.

*Reference File:* [https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4\\_19\\_2-4B\\_UndeliveredShipment\\_LostProduct.zip](https://www.gs1us.org/content/dam/gs1us/documents/industries-insights/by-topic/serialized-exemption-management-addendum/4_19_2-4B_UndeliveredShipment_LostProduct.zip)

### 4.19.1 Sample XML: Exchange1 - Seller -> Buyer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.8 Exception 2-4B: Undelivered Shipment - Product is lost: Seller Exchange1 -->
<!--Use Case Example: Buyer orders two cases from Seller. Seller processes and ships the order
to the Buyer with the accompanying traceability data for the two cases. The products are not
delivered to the Buyer, who receives an invoice for the missing shipment from the Seller.
```

In this scenario, the DSCSA data accompanying shipment supports 1 pallet containing 2 cases of GTIN A. In this example, 2 cases of GTIN A contains 4 LSUs each.

```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-10-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
          <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Identifier>
        </sbdh:Receiver>
        <sbdh:DocumentIdentification>
          <sbdh:Standard>EPCglobal</sbdh:Standard>
          <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
          <sbdh:InstanceIdentifier>1100220065</sbdh:InstanceIdentifier>
          <sbdh:Type>Events</sbdh:Type>
          <sbdh:CreationDateAndTime>2024-10-22T08:45:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
```

```

        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
    <!-- master data for case -->
    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <!-- MFG -->
        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- MFG DC-->
        <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
    </VocabularyElementList>
</Vocabulary>

```

```

        <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
Corp ABC</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">230 Park
Ave S</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">New York</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Wholesaler's DC-->
        <VocabularyElement id="urn:epc:id:sgln:039999.810234.0">
        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler
DC1</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">136 Main
St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
100</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#city">Louisville</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">KY</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#postalCode">40218</attribute>
        <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        </VocabularyElementList>
        </Vocabulary>
        </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
    <gslushc:dscsaTransactionStatement>
        <gslushc:affirmTransactionStatement>true</gslushc:affirmTransactionStatement>
        <gslushc:legalNotice>Seller has complied with each applicable subsection of FDCA
Sec. 581 (27) (A) - (G).</gslushc:legalNotice>
    </gslushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1a: Commissioning events (8 LSUs: 4 LSUs per case) -->
        <ObjectEvent>
            <eventTime>2024-03-27T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
            </epcList>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCISMessage>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E1b: Commissioning events (2 case SNs 123, 456) -->
<ObjectEvent>
  <eventTime>2024-03-27T06:46:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </bizLocation>
  <extension>
    <ilmd>
      <cbvmda:lotNumber>A123</cbvmda:lotNumber>
      <cbvmda:itemExpirationDate>2027-03-27</cbvmda:itemExpirationDate>
    </ilmd>
  </extension>
</ObjectEvent>
<!-- E2a: Aggregation event (packing case SN 123 with 4 LSUs) -->
<AggregationEvent>
  <eventTime>2024-03-27T06:50:16Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
    <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>

```

```

        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2b: Aggregation event (packing case SN 456 with 4 LSUs) -->
<AggregationEvent>
    <eventTime>2024-03-27T06:51:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E3: Commissioning event (1 pallet of GTIN A) at the MFG DC -->
<ObjectEvent>
    <eventTime>2024-10-22T06:47:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:030001.41234567300</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </bizLocation>
</ObjectEvent>
<!-- E4: Aggregation event (packing pallet with 2 cases SNs 123, 456) -->
<AggregationEvent>
    <eventTime>2024-10-22T06:48:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:030001.41234567300</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111121.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111121.0</id>

```

```

        </bizLocation>
    </AggregationEvent>
    <!-- E5: Shipping pallet -->
    <ObjectEvent>
        <eventTime>2024-10-22T07:48:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sscc:030001.41234567300</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111121.0</id>
        </readPoint>
        <!-- 2 business documents: 1 PO from buying Wholesaler, Delivery Document
created by MFG DC -->
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:POXYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0300011111215:DEL300</bizTransaction>
        </bizTransactionList>
        <extension>
            <!-- Source Owning Party is MFG, Source Location is MFG DC -->
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                <source
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:030001.111121.0</source>
            </sourceList>
            <!-- Destination Owning Party is Wholesaler, Destination Location is
Wholesaler DC -->
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:039999.810234.0</destination>
            </destinationList>
        </extension>
        <gslushc:dropShipment>>false</gslushc:dropShipment>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

#### 4.19.2 Sample XML: Seller Updates Product Disposition

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Section 3.8 Exception 2-4B: Undelivered Shipment - Product is lost: Seller Updates
Disposition -->
<!--Use Case Example: After being notified that the shipment never arrived, the Seller
investigates. The Seller determines that the product was lost in transit due to a delivery
issue that occurred and dispositions the product appropriately. Seller sets disposition for
SGTINs in cases 123 and 456 to unknown.

```

Although this situation does not require data exchange amongst trading partners, the Seller internally sets the disposition of the affected SGTINs to unknown.



```
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
schemaVersion="1.2" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1 EPCglobal-epcis-1_2.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" creationDate="2024-11-22T08:45:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier
Authority="GS1">urn:epc:id:sgln:030001.111121.0</sbdh:Identifier>
        </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1100220066</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2024-11-22T08:45:16Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <!-- master data for lowest saleable unit -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
              </VocabularyElement>
              <!-- master data for case -->
              <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">0001-0123-45</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">US_FDA_NDC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">PILL</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">100mg</attribute>
            </VocabularyElementList>
          </Vocabulary>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>
```

```

                    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                </VocabularyElement>
            </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
            <VocabularyElementList>
                <!-- MFG -->
                <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
LLC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1
Biopharm Ct</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
A</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Thousand
Oaks</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#postalCode">91320</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- MFG DC-->
                <VocabularyElement id="urn:epc:id:sgln:030001.111121.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma
DC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">2806
Agoura Rd</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite
500</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Westlake
Village</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#postalCode">91361</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
</EPCISMasterData>
</extension>
<gslushc:guidelineVersion>GS1 US DSCSA R1.3</gslushc:guidelineVersion>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: Subsequent to the investigation, capture the disposition of unknown for
case SNs 123, 456 and the contained lowest saleable uits SNs -->
        <ObjectEvent>
            <eventTime>2024-11-22T06:45:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.11</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.12</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.13</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.14</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.15</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.16</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.17</epc>
            </epcList>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

    <epc>urn:epc:id:sgtin:030001.0012345.18</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
    <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
  </epcList>
  <action>OBSERVE</action>
  <disposition>urn:epcglobal:cbv:disp:unknown</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:030001.111111.0</id>
  </readPoint>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

## A.1 Glossary

Term	Acronym	Definition
<b>Government Definitions:</b>		
Drug Supply Chain Security Act	DSCSA	The Drug Quality and Security Act (DQSA) was enacted by Congress on November 27, 2013. Title II of DQSA, the Drug Supply Chain Security Act (DSCSA), outlines steps to achieve interoperable, electronic tracing of products at the package level to identify and trace certain prescription drugs as they are distributed in the United States. [Source: <a href="https://www.fda.gov/drugs/drug-supply-chain-integrity/drug-supply-chain-security-act-dscsa">https://www.fda.gov/drugs/drug-supply-chain-integrity/drug-supply-chain-security-act-dscsa</a> ]
National Drug Code	NDC	The National Drug Code is a 10-digit identification number established by the U.S. Food and Drug Administration (U.S. FDA) to identify drugs in accordance with Section 510 of the Federal Food, Drug and Cosmetic Act (Act), 21 U.S.C. §360.
Standardized Numerical Identification	SNI	SNI is the U.S. FDA’s term for the unique identification mandated by the DSCSA.
Drug Enforcement Administration	DEA	The DEA was established in 1973 as the federal organization in charge of enforcing the controlled substances laws of the United States. [Source: <a href="https://www.dea.gov/who-we-are">https://www.dea.gov/who-we-are</a> ]

Term	Acronym	Definition
Transaction Information	TI	<p>Information required by the DSCSA that describes the owning parties, the covered products, and dates that the activity took or is taking place. In an EPCIS document this information is spread throughout the file. Table 10-1 in Section 10 of the GS1 US DSCSA Implementation Guideline R1.3 maps DSCSA Data Attribute to relevant EPCIS segments.</p> <p>Sec. 581</p> <p>“(26) Transaction information.--The term ‘transaction information’ means--</p> <ul style="list-style-type: none"> <li>“(A) the proprietary or established name or names of the product;</li> <li>“(B) the strength and dosage form of the product;</li> <li>“(C) the National Drug Code number of the product;</li> <li>“(D) the container size;</li> <li>“(E) the number of containers;</li> <li>“(F) the lot number of the product;</li> <li>“(G) the date of the transaction;</li> <li>“(H) the date of the shipment, if more than 24 hours after the date of the transaction;</li> <li>“(I) the business name and address of the person from whom ownership is being transferred; and</li> <li>“(J) the business name and address of the person to whom ownership is being transferred.</li> </ul> <p>Source: (<a href="#">FDA.gov DSCSA text web document</a>)</p>

Term	Acronym	Definition
Transaction Statement	TS	<p>An attestation by the seller of a covered product stating that they followed the directives set forth by the DSCSA.</p> <p>Table 10-1 in Section 10 of the GS1 US DSCSA Implementation Guideline R1.3 maps DSCSA Data Attribute to relevant EPCIS segments. Transaction Statement is also covered in Section 10.1.</p> <p>Sec. 581:            `` (27) Transaction statement --The `transaction statement' is a statement, in paper or electronic form, that the entity transferring ownership in a transaction--                `` (A) is authorized as required under the Drug Supply Chain Security Act;                `` (B) received the product from a person that is authorized as required under the Drug Supply Chain Security Act;                `` (C) received transaction information and a transaction statement from the prior owner of the product, as required under section 582;                `` (D) did not knowingly ship a suspect or illegitimate product;                `` (E) had systems and processes in place to comply with verification requirements under section 582;                `` (F) did not knowingly provide false transaction information; and                `` (G) did not knowingly alter the transaction history.</p> <p>Source: (<a href="https://www.fda.gov/dscsa-text-web-document">FDA.gov DSCSA text web document</a>)</p>
<b>Trading Partner Definitions:</b>		
Manufacturer		<p>A manufacturer is defined in section 581(10) of the FD&amp;C Act to mean: [W]ith respect to a product -- (A) a person that holds an application approved under section 505 or a license issued under section 351 of the Public Health Service Act for such product, or if such product is not the subject of an approved application or license, the person who manufactured the product; (B) a co-licensed partner of the person described in subparagraph (A) that obtains the product directly from a person described in this subparagraph or subparagraph (A) or (C); or (C) an affiliate of a person described in subparagraph (A) or (B) that receives the product directly from a person described in this subparagraph or subparagraph (A) or (B).</p>
Repackager		<p>DSCSA defines repackager in section 581(16) of the FD&amp;C Act as "a person who owns or operates an establishment that repacks and relabels a product or package for -- (A) further sale; or (B) distribution without a further transaction."</p>

Term	Acronym	Definition
Wholesaler		DSCSA defines wholesale distributor in section 581(29) of the FD&C Act to mean “a person (other than a manufacturer, a manufacturer’s co-licensed partner, a third-party logistics provider, or repackager) engaged in wholesale distribution (as defined in section 503(e)(4) of the FD&C Act, as amended by [DSCSA]).”
Contract Manufacturing Organization	CMO	For the purposes of the DSCSA, a CMO is an entity that performs manufacturing operations for the NDA/ANDA/BLA holder or a co-licensed partner of the NDA/ANDA/BLA holder, to fulfill a contractual obligation with such manufacturer, but is not responsible for the introduction of the product into interstate commerce. [Source: <a href="http://pdsaonline.org/wp-content/uploads/2015/06/PDSA-Letter_DSCSA-QA_May-2014.pdf">http://pdsaonline.org/wp-content/uploads/2015/06/PDSA-Letter_DSCSA-QA_May-2014.pdf</a> ]
Third Party Logistics	3PL	DSCSA defines a 3PL in section 581(22) of the FD&C Act to mean: [A]n entity that provides or coordinates warehousing, or other logistics services of a product in interstate commerce on behalf of a manufacturer, wholesale distributor, or dispenser of a product, but does not take ownership of the product, nor has responsibility to direct the sale or disposition of the product.
Dispenser		The term dispenser, as defined in section 581(3) of the FD&C Act: (A) means a retail pharmacy, hospital pharmacy, a group of chain pharmacies under common ownership and control that do not act as a wholesale distributor, or any other person authorized by law to dispense or administer prescription drugs, and the affiliated warehouses or distribution centers of such entities under common ownership and control that do not act as a wholesale distributor; and (B) does not include a person who dispenses only products to be used in animals in accordance with section 512(a)(5).
<b>GS1 Standards:</b>		
GS1 Company Prefix	GCP	A GS1 Company Prefix is a unique string of 6–11 digits issued to your company by your local GS1 Member Organization.
Global Trade Item Number®	GTIN®	The Global Trade Item Number (GTIN) is the globally unique GS1 identification number used to identify “trade items” (i.e., products and services that may be priced, ordered, or invoiced at any point in the supply chain).
Serialized GTIN	SGTIN	An SGTIN is the combination of a GTIN and a unique serial number of up to 20 alphanumeric characters.
Global Location Number	GLN	The Global Location Number (GLN) is the globally unique GS1 Identification Number used to identify parties and locations.
Serialized Global Location Number	SGLN	The term SGLN refers to an EPC URI syntax for GLNs that is used in EPCIS. The SGLN syntax is capable of representing a plain GLN (without extension) or a GLN plus extension.
Serial Shipping Container Code	SSCC	The Serial Shipping Container Code (SSCC) is the globally unique GS1 identification number used to identify individual logistic units. A “logistic unit” is defined as an item of any composition established for transport and/or storage which needs to be tracked individually and managed through the supply chain.

Term	Acronym	Definition
Electronic Product Code	EPC®	The Electronic Product Code™ (EPC) is syntax for unique identifiers assigned to physical objects, unit loads, locations, or other identifiable entity playing a role in business operations.
Electronic Product Code Information Services	EPCIS	The EPC Information Services (EPCIS) standard defines a data model and a data-sharing interface that enables supply chain partners to capture and communicate data about the movement and status of objects in the supply chain.
<b>Data Carriers and Barcode Related:</b>		
GS1 DataMatrix		GS1 DataMatrix is a two-dimensional (2D) barcode which may be printed as a square or rectangular symbol made up of individual squares.
Universal Product Code	U.P.C.	A U.P.C. is a type of barcode. Specifically, a UPC-A is a barcode that can hold a GTIN-12, and is familiar from its use on consumer products in North America.
Human Readable Interpretation	HRI	Human Readable Interpretation (HRI) is the printed representation of the data encoded in a barcode (e.g., GS1 DataMatrix or GS1-128 barcode).
Human Readable Form		Human-readable refers to product identifiers on their packaging that can be read absent of requiring a machine.
<b>Guideline Specific Terminology:</b>		
Exception		A misalignment of EPCIS data that provides the TI and TS describing the products involved in a DSCSA ownership change and the physical product in a shipment.
Exception – Data No Product		An exception where there is EPCIS data describing product that is not included in a physical shipment. Commonly referred to as a short.
Exception – Product No Data		An exception where there is physical product in a shipment that is not described in the EPCIS data describing the shipment. Commonly referred to as an overage.
Supplemental File		An additional EPCIS file containing events providing the DSCSA required TI and TS events for product no data exceptions.
Seller1		In an extended supply chain scenario, Seller1 is the original selling party.
Seller2		In an extended supply chain scenario, Seller2 purchased the product from Seller1 and is selling the product to Buyer2.
Buyer1		In an extended supply chain scenario, Buyer1 is the original party who purchased from Seller1.  In an extended drop ship supply chain scenario, Buyer1 is the original party who purchased from Seller1. Buyer1 requested Seller1 to ship the ordered products directly to Buyer2.
Buyer2		In an extended supply chain scenario, Buyer2 is Buyer1’s customer.  In an extended drop ship supply chain scenario, Buyer2 is Buyer1’s customer and the party receiving the drop shipment from Seller1.

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## IAPMO

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