The Global Language of Business

Healthcare

Applying GS1 Standards for DSCSA and Traceability

Addendum: Diagrams and XML Examples for Serialized Exceptions Processing

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GS1 US®, a member of GS1 global, is a not-for-profit information standards organization that facilitates industry collaboration to 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-based RFID, data synchronization, and electronic information exchange. GS1 US also manages the United Nations Standard Products and Services Code® (UNSPSC®).

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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 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

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 and every saleable unit, it is likely that exceptions regarding traceability-related data will occur early on. This document was developed by the GS1 Healthcare US Secure Supply Chain Task Force as a means to start assessing how supply chain partners might further leverage the GS1 Electronic Product Code Information Services (EPCIS) standard to address exceptions within supply chain business processes that impact serialization and visibility. The primary goal is to address those exceptions that are likely to occur during the transition to serialized products.

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 examples of exception processing using the EPCIS standard, it is recognized that there are other methods (e.g., Electronic Data Interchange (EDI), etc.) 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   Exception Categories

The serialized exceptions presented in this document have been grouped into four categories:

- Product and No Data
- Data and No Product
- Damaged Products
- Multiple Errors

1.2   Exception Scenarios in this Document

To date, the GS1 Healthcare US Secure Supply Chain Task Force has identified eighteen Serialized Item-Level Exceptions that could occur within those four categories.

For each exception, this document provides specific business process steps, narrative tables with steps and EPCIS events, *Serialized Exception Flow Diagrams*, 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
1 – Product, No Data	**Exception 1-1: Overage discovered at receiving** 1-1A: Buyer keeps unexpected product 1-1B: Buyer refuses or returns unexpected product
	Exception 1-2: Traceability data contains incorrect lot information for entire shipment
	Exception 1-3: Quantity inference problem (concealed overage) 1-3A: Seller decides to sell extra product 1-3B: Seller asks Buyer to return extra product
	Exception 1-4: Incorrect traceability data 1-4A: Serial number in *Shipping* event is incorrect 1-4B: Sold-to information in *Shipping* event is incorrect
	Exception 1-5: No traceability data is received
2 – Data, No Product	**Exception 2-1: Shortage discovered at receiving** 2-1A: Buyer wants the missing product 2-1B: Buyer wants to cancel the missing product
	Exception 2-2: Quantity inference problem (concealed shortage)
	Exception 2-3: Undelivered or lost shipment
3 – Damaged Product	**Exception 3-1: Damaged product discovered at receiving** 3-1A: Buyer returns product to Seller 3-1B: Seller authorizes Buyer to destroy product
4 – Multiple Errors	**Exception 4-1: Product inference problem**
	Exception 4-2: Shipment for Buyer "Y" arrives at Buyer "X" 4-2A: Buyer X is not a customer of Seller, Buyer refuses to receive product from carrier 4-2B: Buyer X refutes the invoice, Seller voids the shipment 4-2C: Buyer X is a customer of Seller, Buyer keeps the product

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.

1.3   How to Use This Document

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

- Use this link to open a PDF containing all of the exception processing diagrams: *Serialized Exception Flow Diagrams*

- Once that document is open in the background, use the link provided with each individual exception to go directly to the corresponding diagram in the opened PDF.

- 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.

1.4   Exception Notification Process

In most cases, when a *Shipping* 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 Number® (GTIN®) (at a minimum)—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**. Members of the supply chain should use one of the following ways 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;

- 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

- Photocopies and photographs (except when additional documentation is needed)

The problem with these technologies is that they require too much interpretation by one or both parties. That is, someone must visually read (or listen) and then re-type all of the characters in the serialized GTINs. Re-typing serialized GTINs can too easily lead to errors that would 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*.

1.5   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*

- *Addendum: Guidance and XML Examples for Supply Chain Choreographies in Lot-Level Management*

- *Addendum: Diagrams and XML Examples for Lot-Level Management Exceptions Processing*

- *Addendum: Diagrams and XML Examples for Serialized Exceptions Processing*

2   Exception Category 1: Product, No Data

The exceptions in Category 1 are exceptions in which product arrives at the Buyer, 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
1 – Product, No Data	**Exception 1-1: Overage discovered at receiving** 1-1A: Buyer keeps unexpected product 1-1B: Buyer refuses or returns unexpected product
	Exception 1-2: Traceability data contains incorrect lot information for entire shipment
	Exception 1-3: Quantity inference problem (concealed overage) 1-3A: Seller decides to sell extra product 1-3B: Seller asks Buyer to return extra product
	Exception 1-4: Incorrect traceability data 1-4A: Serial number in *Shipping* event is incorrect 1-4B: Shipping event contains incorrect Sold-To information
	Exception 1-5: No traceability data is received

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

Definition: Buyer orders two cases, but three cases are delivered against that order. The EPCIS *Shipping* event documents two cases. In order for the buyer to keep the extra case, the seller creates and sends a *Shipping* event for the third case that was inadvertently shipped.

■ The flow diagram for Exception 1-1A is available at the link below:
   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■ 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	Resolution Steps	Resolution
Overage discovered at receiving - Buyer wants to keep the product.	***Manual Intervention*** 1. Buyer places order for two cases. 2. Seller process the order for two cases. 3. By 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 inventoried. 6. Buyer quarantines the one case without DSCSA data. 7. Buyer notifies Seller of the overage, and that the Buyer would like to keep the extra case. 8. Seller investigates the one case discrepancy. Buyer provides Seller with an order for one case. 9. Seller provides EPCIS *Shipping* event for one case in which Ship Date is the original ship date and Transfer Date is date of new shipment event. 10. Buyer transfers one case from quarantine to inventory.	Seller provides additional DSCSA data to Buyer. Buyer retains extra case.

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

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. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SNs 123, 456, 789) **E2: Packing** (three events: lowest saleable unit SNs to case SNs 123, 456, 789)		
S1			Buyer places order for two cases.
S2	Seller processes order for two cases.		

Step	Seller	Transfer	Buyer
S3	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. **EPCIS event(s) created**: **E3: Shipping** (case SNs 123, 456)	Seller ➜ Buyer **Physical**: case SN 123, 456, 789 **EPCIS**: **E1: Commissioning** (case SNs 123, 456 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123, 456) **E3: Shipping** (case SNs 123, 456)	
S4			Three cases arrive at Buyer's dock: SN 123, 456, 789.
S5			Buyer receives SN 123, 456, but cannot receive SN 789 because there is no data. **EPCIS event(s) created**: **E4: Receiving** (case SNs 123, 456) [Situational: when cases are opened] **E5: Unpacking** (case SNs 123, 456)
S6			Buyer quarantines case SN 789 because there is no data.
S7			Buyer notifies Seller of overage.
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. Since the Buyer wants to keep the extra case, the Seller creates a *Shipping* event to reflect the prior shipment. **EPCIS event(s) created:** **E6: Shipping** (case SN 789)	Seller ➜ Buyer **EPCIS**: **E1: Commissioning** (case SN 789 including relevant lowest saleable unit SNs) **E2: Packing** (for case SN 789) **E6: Shipping** (case SN 789)	
S9			Buyer now receives case SN 789 **EPCIS event(s) created:** **E7: Receiving** (case SN 789) [Situational: when cases are opened] **E8: Unpacking** (case SN 789)

2.2 Exception 1-1B: Overage discovered at receiving - Buyer refuses/returns product

Definition: Buyer orders two cases, but three cases are delivered against that order. The EPCIS *Shipping* event documents two cases. (NOTE: Although the buyer is refusing and returning the unexpected product, the return process is not modeled since this example focuses on DSCSA related exchanges only.)

■ The flow diagram for Exception 1-1B is available at the link below:

   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■ XML examples: *Exception 1-1B: Overage discovered at receiving -- Buyer refuses or returns unexpected product*

Table 2-4 Business Process Steps for Exception 1-1B where Buyer refuses or returns unexpected product

Scenario	Resolution Steps	Resolution
Overage discovered at receiving - Buyer refuses or returns the unexpected product	***Manual intervention: If Buyer recognizes the overage before the delivery truck leaves, Buyer can refuse delivery of the extra (1) case. The remaining cases would be processed into inventory normally.*** 1. Buyer places order for two cases. 2. Seller process the order for two cases. 3. By 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 inventoried. 6. Buyer refuses the one extra case to the carrier, or quarantines the one extra case and prepares for a return. 7. Buyer notifies Seller of the overage, and that the Buyer refused the one extra case to the carrier, or would like to return the extra case. 8. Seller investigates the one case discrepancy. Buyer returns the extra one case. 9. Seller adjusts inventory if needed.	Buyer either refuses delivery of extra case, or notifies Seller of issue and treats the case as a return item.

Table 2-5 Narrative Table for Exception 1-1B where Buyer refuses or returns unexpected product

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. **EPCIS event(s) created**: **E1: Commissioning** (lowest saleable unit SNs, case SNs 123, 456, 789) **E2: Packing** (three events: lowest saleable unit SNs to case SNs 123, 456, 789)		
S1			Buyer places order for two cases.

Step	Seller	Transfer	Buyer
S2	Seller processes order for two cases.		
S3	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. **EPCIS event(s) created:** **E3: Shipping** (case SNs 123, 456)	Seller ➔ Buyer **Physical**: case SN 123, 456, 789 **EPCIS:** **E1: Commissioning** (case SNs 123, 456 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123, 456) **E3: Shipping** (case SNs 123, 456)	
S4			Three cases arrive at Buyer's dock: SN 123, 456, 789.
S5			Buyer receives SN 123, 456, but cannot receive SN 789 because there is no data. **EPCIS event(s) created:** **E4: Receiving** (case SNs 123, 456) [Situational: when cases are opened] **E5: Unpacking** (case SNs 123, 456)
S6a		Buyer ➔ Seller **Physical**: case SN 789	Buyer refuses to receive case SN 789 from carrier because there is no data.
S6b		Buyer ➔ Seller **Physical**: case SN 789	Buyer quarantines case SN 789 and subsequently returns case SN 789 to Seller because there is no data.
S7			Buyer notifies Seller of overage and informs Seller of the Buyer's decision to either refuse or return case SN 789.
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	The Seller receives back case SN 789 from the Buyer.		

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

Definition: Buyer orders two cases. Two cases physically arrive marked with lot number XYZ. The accompanying traceability EPCIS *Commissioning* events reflect a different lot number value than what is marked in the product. 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 supporting *Commissioning* events.

■ The flow diagram for Exception 1-2 is available at the link below:

https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■ XML examples: *Exception 1-2: Traceability data contains incorrect lot information for entire shipment*

Table 2-6 Business Process Steps for Exception 1-2

Scenario	Resolution Steps	Resolution
Traceability data contains incorrect lot number for entire shipment	***Manual intervention:*** 1. Buyer places order for two cases. 2. Seller processes order for two cases. 3. Seller ships two cases from Lot# XYZ. Sellers IT systems mistakenly records *Commissioning* events with Lot# ABC. 4. Two cases arrive at Buyer's dock: SN 123, 456. Both are physically marked with Lot# XYZ. 5. Buyer quarantines cases because the lot number in the EPCIS *Commissioning* events (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 *Commissioning* events. 7. Seller investigates lot number discrepancy. The case SNs are legitimate and the incorrect lot was recorded in the Seller's *Commissioning* events. The Seller issues an errorDeclaration for the invalid *Commissioning* event. 8. Seller issues a new *Commissioning* event with all required data and the original commissioning date. 9. Upon receipt of EPCIS event data supporting the physical shipment, Buyer transfers products from quarantine and receives products into inventory.	The "errorDeclaration" explains that there was an error and provides the proper balancing event to keep the EPCIS inventories or audit trail in agreement with other inventories. Buyer will experience delays while product is in quarantine awaiting proper DSCSA data.

Table 2-7 Narrative Table for Exception 1-2

Step	Seller	Transfer	Buyer
S0	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. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123, 456 with Lot# ABC) **E2: Packing** (two events: lowest saleable unit SNs to case SNs 123, 456)		
S1			Buyer places order for two cases.
S2	Seller processes order for two cases.		
S3	Seller ships two cases from Lot# XYZ. Physical shipment contains SN 123 and 456. Seller's IT system incorrectly records *Commissioning* events for both cases from Lot# ABC. **EPCIS event(s) created:** **E3: Shipping** (case SNs 123, 456)	Seller ➜ Buyer **Physical:** case SN 123, 456 of Lot# XYZ **EPCIS:** **E1: Commissioning** (case SNs 123, 456 including relevant lowest saleable unit SNs) Lot# ABC **E2: Packing** (for case SNs 123, 456) **E3: Shipping** (case SNs 123, 456)	
S4			Two cases arrive at Buyer's dock: SN 123, 456. Both are from Lot# XYZ.
S5			Buyer quarantines cases 123 and 456 because Lot# ABC in the EPCIS *Commissioning* events do NOT match Lot# XYZ on the physical products.
S6			Buyer notifies Seller of incorrect lot data in EPCIS *Commissioning* events.

Step	Seller	Transfer	Buyer
S7	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 *Commissioning* events. To resolve the issue, the Seller issues an *errorDeclaration* for the *Commissioning* events with incorrect lot number and creates corrective *Commissioning* events for case SNs 123, 456 and the relevant lowest saleable units in the cases. **EPCIS event(s) created:** **E4: Commissioning errorDeclaration** (lowest saleable unit SNs, case SNs 123, 456 with Lot# ABC) **E5: Commissioning** (lowest saleable unit SNs, case SNs 123, 456 with Lot# XYZ)	Seller ➜ Buyer **EPCIS**: **E4: Commissioning errorDeclaration** (lowest saleable unit SNs, case SNs 123, 456 with Lot# ABC) **E5: Commissioning** (case SNs 123 and 456 including relevant lowest saleable unit SNs with Lot# XYZ)	
S8			Buyer now receives case SNs 123 and 456. **EPCIS event(s) created:** **E6: Receiving** (case SNs 123, 456) [Situational: when cases are opened] **E7: Unpacking** (case SNs 123, 456)

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

Definition: Using inference to validate receipt of the entire case, the Buyer reads the serialized identifiers, cross-checks the shipping documents for the case, and verifies the integrity of the outer case and its security features. If all three conditions are confirmed, the rest of the items in the case can be inferred to be present. 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. Seller decides to sell extra product.

- The flow diagram for Exception 1-3A is available at the link below:

    https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- 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

Scenario	Resolution Steps		Resolution
Quantity Inference Problem (Concealed Overage) – Seller decides to sell extra product	*Manual intervention:*		Buyer will experience delays while product is in quarantine awaiting proper DSCSA data. Seller provides additional DSCSA data to Buyer enabling Buyer to retain extra lowest saleable unit.
	1.	Buyer places order for one case.	
	2.	Seller processes order for one case.	
	3.	One case arrives at the Seller's dock.	
	4.	Buyer receives one case containing 12 lowest saleable units and infers the inner serial numbers are correct.	
	5.	Buyer receives the one case of 12 items into inventory.	
	6.	Upon opening and unpacking the case, the Buyer discovers there are 13 serialized items inside instead of 12.	
	7.	Buyer quarantines the extra item without the recorded DSCSA serial number.	
	8.	Buyer notifies the Seller of serial number overage.	
	9.	Seller decides to sell the extra LSU with correct serial number to Buyer. Seller issues *Commissioning* and *Shipping* events to support the extra LSU.	
	10.	Upon receiving the supporting DSCSA event data for the extra product, the Buyer now receives the item into inventory.	

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

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: 12 lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		
S3	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. **EPCIS event(s) created:** **E3: Shipping** (case SN 123)	Seller ➔ Buyer **Physical**: case SN 123 **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SN 123) **E3: Shipping** (case SN 123)	
S4			One case arrives at Buyer's dock: SN 123.
S5			Buyer receives case SN 123 with inferred quantity of 12. **EPCIS event(s) created:** **E4: Receiving** (case SN 123)
S6			Buyer opens up case SN 123 and discovers there are thirteen SNs inside. SN 112 is unexpectedly found inside. **EPCIS event(s) created:** **E5: Unpacking** (case SN 123)
S7			Buyer quarantines extra lowest saleable unit SN 112 because there is no DSCSA supporting data.
S8			Buyer notifies Seller of overage.

Step	Seller	Transfer	Buyer
S9	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 creates a *Shipping* event so Buyer can keep SN 112. **EPCIS event(s) created:** **E6: Shipping** (lowest saleable unit SN 112)	Seller ➔ Buyer **EPCIS:** **E1: Commissioning** (lowest saleable unit SN 112) **E6: Shipping** (lowest saleable unit SN 112)	
S10			Buyer now receives lowest saleable unit SN 112. **EPCIS event(s) created:** **E7: Receiving** (lowest saleable unit SN 112)

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

Definition: Using inference to validate receipt of the entire case, the Buyer reads the serialized identifiers, cross-checks the shipping documents for the case, and verifies the integrity of the outer case and its security features. If all three conditions are confirmed, the rest of the items in the case can be inferred to be present. This scenario presents a concealed overage that is found after the products have been received into inventory using inferred aggregation. Buyer notifies seller of the extra product. Seller asks Buyer to return the product.

- The flow diagram for Exception 1-3B is available at the link below:
    https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 1-3B: Quantity inference problem (concealed overage) -- Seller asks Buyer to return the product*

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

Scenario	Resolution Steps	Resolution
Quantity inference problem (Concealed Overage) – Seller asks buyer to return the product	***Manual intervention:***	Buyer returns the unexpected extra lowest saleable unit found inside the case to the Seller.
	1. Buyer places order for one case.	
	2. Seller processes order for one case.	
	3. One case arrives at the Seller's dock.	
	4. Buyer receives one case containing 12 lowest saleable units and infers the inner serial numbers are correct.	
	5. Buyer receives the 1 case of 12 items into inventory.	
	6. Upon opening and unpacking the case, the Buyer discovers there are 13 serialized items inside instead of 12.	
	7. Buyer quarantines the extra lowest saleable unit without the recorded DSCSA serial number.	
	8. Buyer notifies the Seller of serial number overage.	
	9. Seller decides to ask the Buyer to return the extra product.	
	10. Buyer returns extra lowest saleable unit to the Seller.	

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

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		

Step	Seller	Transfer	Buyer
S3	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. **EPCIS event(s) created:** **E3: Shipping** (case SN 123)	Seller ➔ Buyer **Physical:** case SN 123 **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E3: Shipping** (case SN 123)	
S4			One case arrives at Buyer's dock: SN 123.
S5			Buyer receives case SN 123 with inferred quantity of 12. **EPCIS event(s) created:** **E4: Receiving** (case SN 123)
S6			Buyer opens up case SN 123 and discovers there are thirteen SNs inside. SN 112 is unexpectedly found inside. **EPCIS event(s) created:** **E5: Unpacking** (case SN 123)
S7			Buyer quarantines extra lowest saleable unit SN 112 because there is no DSCSA supporting data.
S8		Buyer ➔ Seller **Physical:** lowest saleable unit, SN 112	Buyer notifies Seller of overage and returns extra lowest saleable unit SN 112.
S9	Seller investigates 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.		
S10	Seller receives extra lowest saleable unit, SN 112.		

2.6   Exception 1-4A: Incorrect traceability data - serial number in *Shipping* event is incorrect

Definition: The Seller processes the Buyer's order for three cases. Two of the three cases shipped by the Seller have physically marked serial numbers that match the EPCIS *Shipping* event. One of the three cases that arrive is marked with a serial number that does not match the EPCIS *Shipping* event. While the Buyer receives the 2 matching serialized cases, the Buyer quarantines the one case without matching supporting DSCSA data. Seller remediates the EPCIS *Shipping* event for the mismatched serial number to enable buyer to keep the product.

- The flow diagram for Exception 1-4A is available at the link below:

    https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 1-4A: Incorrect traceability data -- serial number in Shipping event is incorrect*

Table 2-12 Business Process Steps for Exception 1-4A where serial number in *Shipping* event is incorrect

Scenario	Resolution Steps	Resolution
Incorrect traceability data - *Shipping* event contains incorrect serial number	***Manual intervention:*** 1. Buyer places an order for three cases. 2. Seller processes an order for three cases. 3. Seller ships three cases, transmits the correct *Commissioning* and *Packing* EPCIS events, and a partially correct *Shipping* event. While 2 of the 3 cases in the EPCIS *Shipping* event match the physical cases, 1 of the case is marked with a SN that does not match the serialized EPCIS *Shipping* event. 4. Three cases arrive at the Buyers dock. 5. Buyer receives the two cases whose SNs match the EPCIS *Shipping* event record. 6. Buyer quarantines one case with mismatched SN. 7. Buyer notifies Seller of the discrepancy. 8. Seller issues a *VoidShipping* event for the incorrect case serial number only. 9. Seller issues a new *Shipping* event with the correct SN and Buyer transfers the case from quarantine and receives that case into inventory.	The *VoidShipping* event explains that there was an error and provides the proper balancing event to keep the EPCIS inventories or audit trail in agreement with other inventories. A corrective *Shipping* event is created to correct the serial number.

Table 2-13 Narrative Table for Exception 1-4A where serial number in *Shipping* event is incorrect

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including four serialized cases with SN 123, 456 789 and 891. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SNs 123, 456, 789, 891) **E2: Packing** (four events: lowest saleable unit SNs to case SN 123, 456, 789, 891)		
S1			Buyer places order for three cases.
S2	Seller processes order for three cases.		
S3	Seller ships three cases. Physical shipment has SN 123, 456, and 789. The seller's system sends the commissioning, packing and shipping events for SN 123 & 456. However, instead of sending event information for SN 789, the seller's IT system mistakenly sends commissioning, packing and shipping events associated with SN 891 which causes a mismatch with the physically shipped case SN 789. **EPCIS event(s) created:** **E3: Shipping** (case SNs 123, 456, 891)	Seller ➔ Buyer **Physical:** case SN 123, 456, 789 **EPCIS:** **E1: Commissioning** (case SNs 123, 456, 891 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123, 456, 891) **E3: Shipping** (case SNs 123, 456, 891)	
S4			Three cases arrive at Buyer's dock: SN 123, 456, 789.
S5			Buyer receives SN 123, 456, but cannot receive 789 because there is no supporting *Shipping* event for SN 789. **EPCIS event(s) created:** **E4: Receiving** (case SNs 123, 456) [Situational: when cases are opened] **E5: Unpacking** (case SNs 123, 456)
S6			Buyer quarantines case SN 789 because there is no shipping event data.
S7			Buyer notifies Seller of *Shipping* event discrepancy.

Step	Seller	Transfer	Buyer
S8	Seller investigates *Shipping* event discrepancy between case 789 and 891. The result of the investigation is that case 789 is legitimate but incorrectly recorded in the *Shipping* event as case SN 891. The Seller voids the previous *Shipping* event for case SN 891 and creates a new *Shipping* event for case SN 789. **EPCIS event(s) created:** **E6: VoidShipping** (case SN 891) **E7: Shipping** (case SN 789)	Seller ➔ Buyer **EPCIS:** **E6: VoidShipping** (case SN 891) **E1: Commissioning** (case SN 789 including relevant lowest saleable unit SNs) **E2: Packing (for case SN 789)** **E7: Shipping** (case SN 789)	
S9			Buyer now receives case 789. **EPCIS event(s) created:** **E8: Receiving** (case SN 789) [Situational: when cases are opened] **E9: Unpacking** (case SN 789)

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

Definition: The Seller processes the Buyer's order for three cases. Seller transmits an incorrect *Shipping* event reflecting the Sold-to party as Buyer XYZ instead of Buyer ABC. While the shipment of 3 cases arrive at Buyer ABC's distribution center, Buyer ABC cannot receive the serialized product without the correct supporting DSCSA transaction data. Buyer ABC quarantines the serialized products until the Seller transmits a corrected EPCIS *Shipping* event with the Sold-to party reflected as Buyer ABC. Upon receipt of the corrected EPCIS *Shipping* event, Buyer ABC receives the products into inventory.

- The flow diagram for Exception 1-4B is available at the link below:

    https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 1-4B: Incorrect traceability data – Shipping event contains incorrect Sold-To information*

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

Scenario	Resolution Steps		Resolution
Incorrect traceability data - *Shipping* event contains incorrect Sold-to information	***Manual intervention:***		The *VoidShipping* event explains that there was an error in the location and provides the proper balancing event to keep the EPCIS inventories or audit trail in agreement with other inventories. A corrective *Shipping* event is created to resolve the wrong location.
	1.	Buyer ABC places an order for three cases.	
	2.	Seller processes ABC's order for three cases	
	3.	Seller ships three cases to ABC's distribution center, transmits the correct *Commissioning* and *Packing* events but sends the incorrect *Shipping* event that lists the Sold-to party as XYZ instead of ABC.	
	4.	Three cases arrive at Buyer ABC's <u>dock</u>.	
	5.	Buyer quarantines the three cases for lack of supporting EPCIS *Shipping* event data.	
	6.	Buyer notifies the Seller of the Sold-to discrepancy in the *Shipping* event.	
	7.	Seller issues a *VoidShipping* event for the entire shipment that lists XYZ as Sold-to party and creates a new *Shipping* event listing ABC as the correct Sold-to party.	
	8.	Buyer transfers three cases from quarantine and receives them into inventory.	

Table 2-15 Narrative Table for Exception 1-4B where *Shipping* event contains incorrect Sold-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. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SNs 123, 456, 789) **E2: Packing** (three events: lowest saleable unit SNs to case SN 123, 456, 789)		
S1			Buyer ABC places order for three cases.
S2	Seller processes ABC's order for three cases.		

Step	Seller	Transfer	Buyer
S3	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 Sold-to entity in the *Shipping* event is XYZ instead of ABC. **EPCIS event(s) created:** **E3: Shipping** (case SNs 123, 456, 789) with Sold-To as XYZ	Seller ➔ Buyer **Physical:** case SN 123, 456, 789 **EPCIS:** **E1: Commissioning** (case SNs 123, 456, 789 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123, 456, 789) **E3: Shipping** (case SNs 123, 456, 789) with Sold-To as XYZ	
S4			Three cases arrive at Buyer ABC's dock: SN 123, 456, 789
S5			Buyer quarantines the three cases, SNs 123, 456, and 789, because the *Shipping* event incorrectly states XYZ as the Sold-to instead of ABC.
S6			Buyer notifies Seller of the Sold-to discrepancy in the *Shipping* event.
S7	Upon investigating the discrepancy in the *Shipping* event, the Seller determines that the shipment of SN 123,456 and 789 to ABC is legitimate but the previously recorded *Shipping* event data is flawed. The Seller voids the previous *Shipping* event with incorrect Sold-to and creates a new *Shipping* event for case SN 123,456 and 789 with ABC as Sold-to. **EPCIS event(s) created:** **E4: VoidShipping** (case SNs 123, 456, 789) with Sold-To as XYZ **E5: Shipping** (case SNs 123, 456, 789) with Sold-To as ABC.	Seller ➔ Buyer **EPCIS:** **E4: VoidShipping** (case SNs 123, 456, 789) with Sold-To as XYZ **E5: Shipping** (case SNs 123, 456, 789) with Sold-To as ABC	
S8			Buyer now receives case SNs 123, 456, and 789. **EPCIS event(s) created:** **E6: Receiving** (case SNs 123, 456, 789) [Situational: when cases are opened] **E7: Unpacking** (case SNs 123, 456, 789)

2.8   Exception 1-5: No traceability data is received

Definition: The Seller processes Buyer's order for one 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 fails to be delivered to the Buyer. The Buyer quarantines the case until the seller re-transmits the *Commissioning*, *Packing* and *Shipping* event supporting the physical shipment.

- The flow diagram for Exception 1-5 is available at the link below:
  https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf
- XML examples: *Exception 1-5: No traceability data is received*

Table 2-16 Business Process Steps for Exception 1-5 where no traceability data is received

Scenario	Resolution Steps	Resolution
No traceability data is received	***Manual intervention:*** 1. Buyer places an order for one case. 2. Seller processes and order for one case. 3. Seller ships one case, but fails to transmit the supporting EPCIS data to the Buyer. 4. One case arrives at the Buyers dock 5. Buyer quarantines one case without traceability data. 6. Buyer notifies Seller of the missing traceability data. 7. Seller determines failed transmission as the cause of missing supporting data. 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.	Seller re-transmits the supporting EPCIS events to enable the buyer to receive the quarantined serialized products into inventory.

Table 2-17 Narrative Table for Exception 1-5 where no traceability data is received

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		

Step	Seller	Transfer	Buyer
S3	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. **EPCIS event(s) created:** **E3: Shipping** (case SN 123)	Seller ➜ Buyer **Physical:** case SN 123	
S4			One case arrives at Buyer's 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 system triggers a re-transmission of *Commissioning*, *Packing* and *Shipping* events corresponding to case SN 123.	Seller ➜ Buyer **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SN 123) **E3: Shipping** (case SN 123)	
S8			Buyer now receives case SN 123. **EPCIS event(s) created:** **E4: Receiving** (case SN 123) [Situational: when cases are opened] **E5: Unpacking** (case SN 123)

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

2 – Data, No Product	**Exception 2-1: Shortage discovered at receiving**
	    2-1A: Buyer wants to receive the missing product
	    2-1B: Buyer wants to cancel the order for the missing product

	Exception 2-2: Quantity inference problem (concealed shortage)
	Exception 2-3: Undelivered or Lost Shipment

3.1 Exception 2-1A: Shortage discovered at receiving - Buyer wants to receive the missing product

Definition: 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 account for three cases. With two physical cases matching the supporting traceability data, only two of the cases that arrive are received into inventory. The Seller remediates the extra traceability data by issuing a *VoidShipping* event and subsequently processes a second shipment to fulfill the third case in the original order. The second shipment is, however, not in the scope of this scenario.

■ The flow diagram for Exception 2-1A is available at the link below:

   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■ XML examples: *Exception 2-1A: Shortage discovered at receiving -- Buyer wants to receive the missing product*

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

Scenario	Resolution Steps	Resolution
Shortage discovered at receiving -- Buyer wants to receive the missing case	***Manual intervention:***	The *VoidShipping* event explains that there was an error and provides the proper balancing event to keep the EPCIS inventories or audit trail in agreement with other inventories.
	1. Buyer places an order for three cases.	
	2. Seller processes and 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.	
	7. Seller investigates the shipping discrepancy with the omitted case from the shipment. Subsequently, the Seller issues a *VoidShipping* event to cancel the *Shipping* event that only exists electronically without a physical case to match the event record.	
	8. Seller processes a second shipment to fulfill the missing case that was not shipped for the first order. *(Note that this second shipment is not in scope of this scenario and not modeled in the example XML.)*	

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

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. **EPCIS event(s) created**: **E1: Commissioning** (lowest saleable unit SNs, case SNs 123, 456, 789) **E2: Packing** (three events: lowest saleable unit SNs to case SN 123, 456, 789)		
S1			Buyer places order for three cases.
S2	Seller processes order for three cases		
S3	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. **EPCIS event(s) created**: **E3: Shipping** (case SN 123, 456, 789)	Seller ➔ Buyer **Physical**: case SN 123, 456 **EPCIS**: **E1: Commissioning** (case SN 123, 456, 789 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123, 456, 789) **E3: Shipping** (case SN 123, 456, 789)	
S4			Two cases arrive at Buyer's dock: SN 123, 456.
S5			Buyer receives SN 123, 456 which account for the two physical received. While there's data for SN 789, Buyer cannot receive SN 789 since the physical case is missing. **EPCIS event(s) created**: **E4: Receiving** (case SNs 123, 456) [Situational: when cases are opened] **E5: Unpacking** (case SNs 123, 456)
S6			Buyer notifies Seller of missing case SN 789.
S7	Seller investigates the shipping discrepancy. Since case SN 789 was omitted from the shipment, Seller voids the previously recorded *Shipping* event for SN 789 only. **EPCIS event(s) created**: **E6: voidShipping** (case SN 789)	Seller ➔ Buyer **EPCIS**: **E6: voidShipping** (case SN 789)	

Step	Seller	Transfer	Buyer
S8	Seller processes second shipment to fulfill the missing case in the order. Since this second shipment is out of scope for this scenario, the process steps and electronic message exchanges are not modeled for this scenario.		

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

Definition: 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 account for three cases. With two physical cases matching the supporting traceability data, only two of the cases that arrived are received into inventory. The Buyer cancels the order for the third case, and the Seller remediates the extra traceability data by issuing a *VoidShipping* event.

■   The flow diagram for Exception 2-1B is available at the link below:

   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■   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	Resolution Steps		Resolution
Shortage discovered at receiving – Buyer wants to cancel the order for the missing product	**Manual intervention:**		The *VoidShipping* event explains that there was an error and provides the proper balancing event to keep the EPCIS inventories or audit trail in agreement with other inventories. The Buyer decides to cancel the order for the remaining balance.
	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 and cancels the remaining order for the missing case.	
	7.	Seller investigate the shipping discrepancy with the omitted case from the shipment and the Seller issues a *VoidShipping* event to cancel the *Shipping* event that only exists electronically without a physical case to match the event record.	

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

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. **EPCIS event(s) created**: **E1: Commissioning** (lowest saleable unit SNs, case SNs 123, 456, 789) **E2: Packing** (three events: lowest saleable unit SNs to case SN 123, 456, 789)		
S1			Buyer places order for three cases.
S2	Seller processes order for three cases		

Step	Seller	Transfer	Buyer
S3	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. **EPCIS event(s) created**: **E3: Shipping** (case SNs 123, 456, 789)	Seller ➔ Buyer **Physical**: case SN 123, 456 **EPCIS**: **E1: Commissioning** (case SNs 123, 456, 789 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123, 456, 789) **E3: Shipping** (case SNs 123, 456, 789)	
S4			Two cases arrive at Buyer's dock: SN 123, 456.
S5			Buyer receives SN 123, 456 which account for the two physical received. While there's data for SN 789, Buyer cannot receive SN 789 since the physical case is missing. **EPCIS event(s) created**: **E4: Receiving** (case SNs 123, 456) [Situational: when cases are opened] **E5: Unpacking** (case SNs 123, 456)
S6			Buyer notifies Seller of missing case SN 789. Buyer also cancels the remaining order for the missing case.
S7	Seller investigates the shipping discrepancy. Since case SN 789 was omitted from the shipment, Seller voids the previously recorded *Shipping* event for SN 789. **EPCIS event(s) created**: **E6: voidShipping** (case SN 789)	Seller ➔ Buyer **EPCIS**: **E6: voidShipping** (case SN 789)	

3.3 Exception 2-2: Quantity inference problem (concealed shortage)

Definition: Seller processes and ships an order of one case to the Buyer with the accompanying traceability data for one case. The Buyer receives the one case and infers that there are twelve lowest saleable units in the sealed case. Later after opening the case, the Buyer discovers there are only eleven lowest saleable units inside the case and reports the discrepancy to the Seller. 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 issues a *VoidShipping* event to void the shipment of the missing lowest saleable unit.

■ The flow diagram for Exception 2-2 is available at the link below:

https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■ XML examples: *Exception 2-2: Quantity inference problem (concealed shortage)*

Table 3-6 Business Process Steps for Exception 2-2

Scenario	Resolution Steps	Resolution
Quantity inference problem (concealed shortage)	***Manual intervention:*** 1. Buyer places an order for one case. 2. Seller processes an order for one case. 3. Seller ships one case, thinking there were twelve serialized lowest saleable units in the case. 4. One case arrives at the Buyers dock. 5. Buyer receives the one case under inference. 6. Buyer later opens the case and discovers only eleven lowest saleable units are inside the case. 7. Buyer notifies the Seller about the concealed shortage of the missing lowest saleable unit. 8. Seller investigates the missing lowest saleable unit which should have been packed in the sealed case. The Seller resolves the discrepancy by issuing a *VoidShipping* event for the single lowest saleable unit that was mistakenly not included in the sealed case.	The *VoidShipping* event explains that there was an error and provides the proper balancing event to keep the EPCIS inventories or audit trail in agreement with other inventories.

Table 3-7 Narrative Table for Exception 2-2

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		

Step	Seller	Transfer	Buyer
S3	Seller physically ships one case thinking there are twelve serialized lowest saleable units in the case. Physical shipment has SN 123. Seller's IT system reflects there are 12 serialized lowest saleable units in SN 123. In reality, the case contains 11 lowest saleable units. **EPCIS event(s) created:** **E3: Shipping** (case SN 123)	Seller ➔ Buyer **Physical**: case SN 123 **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E3: Shipping** (case SN 123)	
S4			One case arrives at Buyer's dock: SN 123.
S5			Buyer receives SN 123. **EPCIS event(s) created:** **E4: Receiving** case SN 123
S6			Buyer opens up case SN 123 and discovers there are only eleven SNs inside. Case SN 123 is missing a lowest saleable unit SN 111. **EPCIS event(s) created:** **E5: Unpacking** (case SN 123)
S7			Buyer notifies Seller about shortage of lowest saleable unit, SN 111, missing from case SN 123.
S8	Seller investigates SN 111, the missing serialized lowest saleable unit, which should have been packed inside case SN 123 and shipped to the Buyer. The Seller voids the previous shipping event for SN 111. **EPCIS event(s) created:** **E6: voidShipping** (lowest saleable unit SN 111))	Seller ➔ Buyer **EPCIS:** **E6: voidShipping** (lowest saleable unit SN 111))	

3.4 Exception 2-3: Undelivered or lost shipment

Definition: Seller processes and ships an order of one case to the Buyer with the accompanying traceability data for one case. 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 a delivery issue occurred and issues a *VoidShipping* event to correct the lost shipment.

■ The flow diagram for Exception 2-3 is available at the link below:

  https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■ XML examples: *Exception 2-3: Undelivered or lost shipment*

Table 3-8 Business Process Steps for Exception 2-3

Scenario	Resolution Steps	Resolution
Undelivered or lost shipment	***Manual intervention:***	The Seller issues a *VoidShipping* event to correct their inventory since the Buyer never received the shipment.
	1. Buyer places an order for one case.	
	2. Seller process an order for one case.	
	3. Seller ships order of one case to Buyer with EPCIS *Commissioning*, *Packing* and *Shipping* events.	
	4. The Buyer receives an invoice for the previously place order but the shipment never arrives at Buyer.	
	5. Buyer notifies the Seller of the missing shipment. Buyer disputes the invoice for products not received.	
	6. Seller investigates the missing shipment and determines a delivery issue occurred.	
	7. Seller issues a *VoidShipping* event to cancel the shipment.	

Table 3-9 Narrative Table for Exception 2-3

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		

Step	Seller	Transfer	Buyer
S3	Seller ships one case. Physical shipment contains SN 123. Seller's IT system records the *Shipping* event for SN 123. **EPCIS event(s) created:** **E3: Shipping** (case SN 123)	Seller ➔ Buyer **Physical:** case SN 123 **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E3: Shipping** (case SN 123)	
S4			Buyer receives an invoice for the previously placed order but the physical shipment of case SN 123 never arrived at the Buyer's DC.
S5			Buyer investigates missing case SN 123 for which Buyer has supporting event data but missing the physical product.
S6			Buyer notifies Seller of missing shipment.
S7	Upon investigating the reported missing shipment, the Seller determines that a delivery problem occurred. Seller voids the previously recorded shipping event for SN 123. **EPCIS event(s) created:** **E4: voidShipping** (case SN 123)	Seller ➔ Buyer **EPCIS:** **E4: voidShipping** (case SN 123)	

4   Exception Category 3 – Damaged Product

The exceptions in Category 3 are exceptions in which the Buyer discovers that the product arriving from the Seller is damaged. The scenario in Exception Category 3 is listed in the table below, and this scenario is covered individually in this chapter.

Table 4-1 Exception Category 3 Scenarios

Category	Exception Scenario
3 – Damaged Product	**Exception 3-1: Damaged product discovered at receiving** 3-1A: Buyer returns product to Seller 3-1B: Seller authorizes Buyer to destroy product

4.1   Exception 3-1A: Damaged product discovered at receiving - Buyer returns product to Seller

Definition: Seller processes and ships an order of one case to the Buyer with the accompanying traceability data for one case. The product arrives damaged at the Buyer's dock. The Buyer receives and quarantines the damaged product, and notifies the Seller of the damaged goods that the Buyer will be returning to the seller. (NOTE: Although a return shipment event can be generated, this example does not model the events supporting the return process because it focuses on DSCSA exchanges only.)

- The flow diagram for Exception 3-1A is available at the link below:

    https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 3-1A: Damaged product discovered at receiving – Buyer returns product to Seller*

Table 4-2 Business Process Steps for Exception 3-1A where Buyer returns product to Seller

Scenario	Resolution Steps		Resolution
Damaged product discovered at receiving – Buyer returns product to Seller	*Manual intervention:*		Buyer records a *Receiving* event with a disposition of damaged and initiates product return process.
	1.	Buyer places an order for one case.	
	2.	Seller process an order for one case	
	3.	Seller ships order of one case to Buyer with EPCIS *Commissioning*, *Packing* and *Shipping* events.	
	4.	One case arrives at the Buyer's dock.	
	5.	Buyer determines the case arrives damaged and receives the product as damaged.	
	6.	Buyer quarantines the damaged case.	
	7.	Buyer notifies Seller of the damaged case.	
	8.	Buyer returns the damaged case and the Seller receives back that case.	

Table 4-3 Narrative Table for Exception 3-1A where Buyer returns product to Seller

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created**: **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		

S3	Seller ships one physical case, SN 123. Seller's IT system records the *Shipping* event for SN 123. **EPCIS event(s) created**: **E3: Shipping** (case SN 123)	Seller ➜ Buyer **Physical**: case SN 123 **EPCIS**: **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SN 123) **E3: Shipping** (case SN 123)	
S4			One case arrives at Buyer's dock: SN 123.
S5			Buyer detects that physical case SN 123 arrives damaged. Buyer receives SN 123 with a disposition of damaged. **EPCIS event(s) created**: E4: Receiving (case SN 123) with disposition = damaged
S6			Buyer quarantines damaged case SN 123.
S7		Buyer ➜ Seller **Physical**: case SN 123	Buyer notifies Seller that damaged case SN 123 is being returned.
S8	Seller receives back damaged case SN 123.		

4.2   Exception 3-1B: Damaged product discovered at receiving - Seller authorizes Buyer to destroy product

Definition: Seller processes and ships an order of one case to the Buyer with the accompanying traceability data for one case. The product arrives damaged at the Buyer's dock. The Buyer receives, quarantines the damaged product and notifies the Seller of the damaged goods. Seller authorizes Buyer to destroy the product.

■   The flow diagram for Exception 3-1B is available at the link below:

   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■   XML examples: *Exception 3-1B: Damaged product discovered at receiving – Seller authorizes Buyer to destroy product*

Table 4-4 Business Process for Exception 3-1B where Seller authorizes Buyer to destroy product

Scenario	Resolution Steps		Resolution
Damaged product discovered at receiving – Seller authorizes Buyer to destroy product	***Manual intervention:***		Buyer records a *Receiving* event with a disposition of damaged. Authorized by the seller to destroy the damaged product, Buyer sends the damaged case to an authorized destruction facility, and records an EPCIS *Destroy* event.
	1.	Buyer places an order for one case.	
	2.	Seller process an order for one case	
	3.	Seller ships order of one case to Buyer with EPCIS *Commissioning*, *Packing* and *Shipping* events.	
	4.	One case arrives at the Buyer's dock.	
	5.	Buyer determines the case arrives damaged and receives the product as damaged.	
	6.	Buyer quarantines the damaged case.	
	7.	Buyer notifies Seller of the damaged case.	
	8.	Seller authorizes the buyer to destroy the damaged case	
	9.	Buyer sends the damage case to an authorized destruction facility.	

Table 4-5 Narrative Table for Exception 3-1B where Seller authorizes Buyer to destroy product

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created**: **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		

Step	Seller	Transfer	Buyer
S3	Seller ships one case. Physical shipment has SN 123. **EPCIS event(s) created**: **E3: Shipping** (case SN 123)	Seller ➔ Buyer **Physical**: case SN 123 **EPCIS**: **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SN 123) **E3: Shipping** (case SN 123)	
S4			One case arrives at Buyer's dock: SN 123.
S5			Buyer detects that physical case SN 123 arrives damaged. Buyer receives SN 123 with a disposition of damaged. **EPCIS event(s) created**: **E4: Receiving** (case SN 123) with disposition = damaged
S6			Buyer quarantines damaged case SN 123.
S7			Buyer notifies Seller that case SN 123 is damaged.
S8	Seller authorizes the destruction of damaged case SN 123.		
S9			Buyer sends damaged case SN 123 for destruction. Buyer's system records a *Destroy* event for case SN 123. **EPCIS event(s) created**: **E5: Destroying** (case SN 123)

5 Exception Category 4 – Multiple Errors

The exceptions in Category 4 are exceptions in which there are multiple simultaneous errors. The scenarios in Exception Category 4 are listed in the table below, and each scenario is covered individually in this chapter.

Table 5-1 Exception Category 4 Scenarios

Category	Exception Scenario
4 – Multiple Errors	**Exception 4-1: Product inference problem**
	Exception 4-2: Shipment for Buyer "Y" arrives at Buyer "X" 4-2A: Buyer X is not a customer of Seller, Buyer refuses to receive product from carrier 4-2B: Buyer X refutes the invoice, Seller voids the shipment 4-2C: Buyer X is a customer of Seller, Buyer keeps the product

5.1   Exception 4-1: Product inference problem

Definition: Seller processes and ships an order of one case to the Buyer with the accompanying traceability data for one case. Buyer receives the sealed case and its contents under inference. Buyer later opens the case and discovers that while there are twelve lowest saleable units inside, there is an extra lowest saleable unit SN, and one that is missing. The Seller investigates the dual issue and rectifies the missing lowest saleable unit by generating a *VoidShipping* event for the specific missing lowest saleable unit SN. Buyer returns unexpected product. (NOTE: Although the Buyer is returning the unexpected product, the return process is not modeled here because this example focuses on DSCSA exchanges only.)

- The flow diagram for Exception 4-1 is available at the link below:

    https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 4-1: Product inference problem*

Table 5-2 Business Process Steps for Exception 4-1

Scenario	Resolution Steps	Resolution
Product inference problem	***Manual intervention:***	Seller issues a *VoidShipping* event for the missing lowest saleable unit, and receives back the extra lowest saleable unit.
	1. Buyer places an order for one case.	
	2. Seller processes an order for one case.	
	3. Seller ships one homogenous case, believing there are twelve lowest saleable units in the case. Seller transmits accompanying EPCIS *Commissioning*, *Packing* and *Shipping* events.	
	4. One case arrives at the Buyer's dock.	
	5. Buyer receives full case containing twelve items and infers there are twelve inner lowest saleable units.	
	6. Buyer later opens the case and discovers that while there are twelve lowest saleable units inside the case there's a missing and an extra lowest saleable unit.	
	7. Buyer quarantines the extra lowest saleable unit because there is no supporting traceability data.	
	8. Buyer notifies the Seller of the missing lowest saleable unit and informs the Seller that the Buyer is returning the extra lowest saleable unit.	
	9. The Seller corrects the issue with the missing lowest saleable unit by generating a *VoidShipping* event only for the missing lowest saleable unit.	
	10. The Seller receives back the extra lowest saleable unit.	

Table 5-3 Narrative Table for Exception 4-1

Step	Seller	Transfer	Buyer
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (one event: lowest saleable unit SNs to case SN 123)		
S1			Buyer places order for one case.
S2	Seller processes order for one case.		
S3	Seller physically ships one homogeneous case thinking there are twelve serialized lowest saleable units in the case. Physical shipment has SN 123. Seller's IT system reflects there are 12 serialized lowest saleable units in SN 123. **EPCIS event(s) created:** **E3: Shipping** (case SN 123)	Seller ➜ Buyer **Physical:** case SN 123 **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs 100-111) **E2: Packing** (for case SNs 123 with lowest saleable unit SNs 100-111) **E3: Shipping** (case SN 123)	
S4			One case arrives at Buyer's dock: SN 123.
S5			Buyer receives SN 123. **EPCIS event(s) created:** E4: Receiving (case SN 123)
S6			Buyer opens up case SN 123 and detects two problems in the shipment: While there are 12 lowest saleable units inside the case, there's an extra lowest saleable unit SN 113 and a missing lowest saleable unit SN 111. **EPCIS event(s) created:** **E5: Unpacking** (case SN 123)
S7			Buyer quarantines extra lowest saleable unit SN 113 because there is no data.

Step	Seller	Transfer	Buyer
S8		Buyer ➔ Seller **Physical:** Lowest saleable unit SN 113	Buyer notifies Seller of the missing lowest saleable unit SN 111 and informs Seller that Buyer is returning extra lowest saleable unit SN 113.
S9	Seller investigates the dual issue of missing SN 111 and extra SN 113. The Seller rectifies the missing lowest saleable unit, SN 111, by voiding the previously recorded *Shipping* event for SN 111. **EPCIS event(s) created:** **E6: voidShipping** (Lowest saleable unit SN 111)	Seller ➔ Buyer **EPCIS:** **E6: voidShipping** (Lowest saleable unit SN 111)	
S10	Seller receives back the extra lowest saleable unit, SN 113.		

5.2 Exception 4-2A: Shipment for Buyer Y arrives at Buyer X who is not a customer of Seller, Buyer X refuses to receive product from carrier

Definition: Seller processes an order for Buyer Y, but mistakenly ships the products to Buyer X who is not a customer. The traceability data for the case is transmitted to Buyer Y. Buyer X refuses to receive the unknown and unexpected shipment from the carrier. Seller generates a *VoidShipping* event to resolve the miss delivery.

- The flow diagram for Exception 4-2A is available at the link below:

   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 4-2A - Shipment for Buyer Y arrives at Buyer X who is not a customer of Seller, Buyer X refuses to receive product from carrier*

Table 5-4 Business Process Steps for Exception 4-2A

Scenario	Resolution Steps		Resolution
Shipment for Buyer Y arrives at Buyer X who is not a customer of Seller. Buyer X refuses to receive product from carrier.	***Manual intervention:***		Buyer Y will experience delays while a replacement order is processed by the Seller. Buyer X refuses the receipt of the case from the carrier. Seller issues *VoidShipping* event for the miss delivery.
	1.	Buyer Y places an order for one case.	
	2.	Seller processes Buyer Y's order for one case.	
	3.	Seller mistakenly ships one case to Buyer X. The supporting EPCIS *Commissioning*, *Packing* and *Shipping* events were sent to Buyer Y.	
	4.	The product arrives at Buyer X.	
	5.	Buyer X refuses to receive the one case from the carrier.	
	6.	Seller issues a *VoidShipping* event to Buyer Y since the shipment did not arrive.	

Table 5-5 Narrative Table for Exception 4-2A

Step	Seller	Transfer	Buyer Y	Buyer X
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (three events: lowest saleable unit SNs to case SN 123)			
S1			Buyer Y places order for one case.	
S2	Seller processes Buyer Y's order for one case.			

Step	Seller	Transfer	Buyer Y	Buyer X
S3	Seller mistakenly ships one case to Buyer X's DC. Physical shipment has SN 123. While the physical products go to Buyer X's distribution center, the Seller's system records that the Sold-To and Ship-To entities in the *Shipping* event are respectively, Y and Y's DC. **EPCIS event(s) created:** **E3: Shipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.	Seller ➜ Buyer X **Physical:** case SN 123 Seller ➜ Buyer Y EPCIS: **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E3: Shipping** (case SN 123) with Sold-To as Y, Ship-To as Y's DC.		
S4				One case arrives at Buyer X's dock: SN 123
S5		Buyer X ➜ Seller **Physical:** case SN 123		Buyer X refuses to receive case SN 123 from carrier.
S6	Upon investigating the discrepancy in the shipping event, the Seller determines SN 123 is legitimate but the shipment intended for Buyer Y was incorrectly delivered to Buyer X. The Seller voids the previously recorded *Shipping* event for Buyer Y. **EPCIS event(s) created:** **E4: voidShipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.	Seller ➜ Buyer Y EPCIS: **E4: voidShipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.		

5.3 Exception 4-2B: Shipment for Buyer Y arrives at Buyer X, Buyer Y refutes invoice, Seller voids shipment

Definition: Seller processes an order for Buyer Y, but mistakenly ships the products to Buyer X who is not a customer. The traceability data for the case is transmitted to Buyer Y. Buyer Y disputes the invoice for products never received. Seller generates *VoidShipping* event to resolve the mis-delivery.

- The flow diagram for Exception 4-2B is available at the link below:

  https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

- XML examples: *Exception 4-2B: Shipment for Buyer Y arrives at Buyer X -- Buyer Y refutes invoice, Seller voids shipment*

Table 5-6 Business Process Steps for Exception 4-2B

Scenario	Resolution Steps		Resolution
Shipment for Buyer Y arrives at Buyer X. Buyer Y refutes invoice. Seller voids shipment.	***Manual intervention:***		Buyer Y will experience delays while a replacement order is processed by the Seller. Buyer X refutes the invoice for the case never received. Seller issues *VoidShipping* event for the missed delivery.
	1.	Buyer Y places an order for one case.	
	2.	Seller processes Buyer Y's order for one case.	
	3.	Seller mistakenly ships one case to Buyer X. The supporting EPCIS *Commissioning*, *Packing* and *Shipping* events were sent to Buyer Y.	
	4.	The Invoice for one case is received by Buyer Y, but shipment never arrives.	
	5.	Buyer Y investigates the missing case.	
	6.	Buyer Y disputes invoice and notifies the Seller of the missing case.	
	7.	Seller determines that Buyer Y's order was incorrectly delivered to Buyer X.	
	8.	Seller issues a *VoidShipping* event for the shipment that was not sent to Buyer Y.	

Table 5-7 Narrative Table for Exception 4-2B

Step	Seller	Transfer	Buyer Y
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (three events: lowest saleable unit SNs to case SN 123)		
S1			Buyer Y places order for one case.
S2	Seller processes Buyer Y's order for one case.		

Step	Seller	Transfer	Buyer Y
S3	Seller mistakenly ships one case to Buyer X's DC. Physical shipment has SN 123. While the physical products go to Buyer X's distribution center, the Seller's system records that the Sold-to and Ship-to entities in the *Shipping* event are Y and Y's DC, respectively. **EPCIS event(s) created:** **E3: Shipping** (case SN 123) with Sold-To as Y, Ship-To as Y's DC.	Seller ➜ Buyer X **Physical:** case SN 123 Seller ➜ Buyer Y **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E3: Shipping** (case SN 123) with Sold-To as Y, Ship-To as Y's DC.	
S4			Invoice for case SN 123 is received by Buyer Y.
S5			Buyer Y investigates missing case SN 123.
S6			Buyer Y refutes invoice and notifies Seller of missing shipment.
S7	Upon investigating the discrepancy in the *Shipping* event, the Seller determines Buyer Y's order was processed incorrectly and shipment intended for Buyer Y was incorrectly delivered to Buyer X.		
S8	Seller voids the previous *Shipping* event for Buyer Y.. **EPCIS event(s) created:** **E4: voidShipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.	Seller ➜ Buyer Y **EPCIS event(s) created:** **E4: voidShipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.	

5.4   Exception 4-2C: Shipment for Buyer Y arrives at Buyer X (who is a customer of Seller), Buyer X keeps product

Definition: Seller processes an order for Buyer Y, but mistakenly ships the products to Buyer X who is also a customer. The traceability data for the case is transmitted to Buyer Y. Because Buyer X wants to keep the delivered product, Seller processes an order for Buyer X and sends the supporting traceability data to Buyer X.

■   The flow diagram for Exception 4-2C is available at the link below:

   https://resources.gs1us.org/Portals/0/SerializedExcpFlowSetv08172016sentforPublishing.pdf

■   XML examples: *Exception 4-2C: Shipment for Buyer Y arrives at Buyer X who is also a customer of Seller, Buyer keeps product*

Table 5-8 Business Process Steps for Exception 4-2C

Scenario	Resolution Steps		Resolution
Shipment for Buyer Y arrives at Buyer X (who is a customer of Seller). Buyer X keeps product	***Manual intervention:***		Because Buyer X wants to keep the already delivered product, Seller processes an order for Buyer X and sends Buyer X supporting traceability data.
	1.	Buyer Y places an order for one case.	
	2.	Seller processes Buyer Y's order for one case.	
	3.	Seller mistakenly ships one case to Buyer X. The supporting EPCIS *Commissioning*, *Packing* and *Shipping* events were sent to Buyer Y.	
	4.	Product arrives at Buyer X.	
	5.	Buyer X quarantines the product because it is lacking supporting traceability data.	
	6.	Buyer X notifies Seller of the unexpected delivery and conveys desire to keep the product.	
	7.	Seller investigates reported issue and determines products intended for Buyer Y was incorrectly delivered to Buyer X.	
	8.	Seller issues *VoidShipping* event to cancel Buyer Y's order.	
	9.	Seller enters and processes an order for Buyer X to enable Buyer X to keep the product that was already delivered. Seller generates and sends supporting EPCIS *Commissioning*, *Packing* and *Shipping* events to Buyer X.	
	10.	Upon receipt of supporting EPCIS traceability data, Buyer X receives product into inventory.	

Table 5-9 Narrative Table Exception 4-2C

Step	Seller	Transfer	Buyer Y	Buyer X
S0	Previous to this use case, Seller has serialized inventory on hand, including one serialized case with SN 123. **EPCIS event(s) created:** **E1: Commissioning** (lowest saleable unit SNs, case SN 123) **E2: Packing** (three events: lowest saleable unit SNs to case SN 123)			
S1			Buyer Y places order for one case.	
S2	Seller processes Buyer Y's order for one case.			
S3	Seller mistakenly ships one case to Buyer X's DC. Physical shipment has SN 123. While the physical products go to Buyer X's distribution center, the Seller's system records that the Sold-to and Ship-to entities in the *Shipping* event are Y and Y's DC respectively. **EPCIS event(s) created:** **E3: Shipping** (case SN 123) with Sold-To as Y	Seller ➜ Buyer X **Physical:** case SN 123 Seller ➜ Buyer Y **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E3: Shipping** (case SN 123) with Sold-To as Y, Ship-To as Y's DC.		
S4				One case arrives at Buyer X's dock: SN 123
S5				Buyer X quarantines case SN 123 because there's no traceability data.
S6				Buyer X conveys that it wants to keep the product.

Step	Seller	Transfer	Buyer Y	Buyer X
S7	Upon investigating the discrepancy in the *Shipping* event, the Seller determines SN 123 is legitimate and the shipment intended for Buyer Y was incorrectly delivered to Buyer X. The Seller voids the previous *Shipping* event for Buyer Y. **EPCIS event(s) created:** **E4: voidShipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.	Seller ➜ Buyer Y **EPCIS:** **E4: voidShipping** (case SN 123) with Sold-To as Y and Ship-To as Y's DC.		
S8	Seller enters an order for Buyer X and creates a *Shipping* event with Buyer X as Sold-to and Ship-to reflecting the prior physical shipment. **EPCIS event(s) created:** **E5: Shipping** (case SN 123) with Sold-To as X and Ship-To as X's DC	Seller ➜ Buyer X **EPCIS:** **E1: Commissioning** (case SN 123 including relevant lowest saleable unit SNs) **E2: Packing** (for case SNs 123) **E5: Shipping** (case SN 123) with Sold-To as X and Ship-To as X's DC		
S9				Buyer X now receives case SN 123 **EPCIS event(s) created:** **E6: Receiving** (case SN 123) [Situational: when cases are opened] **E7: Unpacking** (case SN 123)

6 XML Examples

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

6.1.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-1A-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-1A: OVERAGE-DISCOVERED AT RECEIVING (KEEP) -->
<!-- Seller Exchange1: Step S3:  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.
Included in this example scenario is an illustration of multiple Purchase Orders for the
shipment.
Case SN 123 and all of its contents are associated with PO XYZ567.
Case SN 456 and its contents (LSUs 030001.0012345.21, 030001.0012345.22 and 030001.0012345.23)
are split between 2 POs.
LSU 030001.0012345.21 is under PO XYZ567 while LSUs, 030001.0012345.22 and 030001.0012345.23,
are under PO XYZ444
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```xml
                        <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">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
```

```xml
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
      </gs1ushc:dscsaTransactionStatement>
   </EPCISHeader>
   <EPCISBody>
      <EventList>
        <!-- E1: Commissioning events (case SNs 123, 456 including relevant lowest saleable
unit SNs) -->
        <ObjectEvent>
           <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.21</epc>
              <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
              <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
              <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>2019-03-31</cbvmda:itemExpirationDate>
              </ilmd>
           </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
           <eventTime>2016-03-25T17:10:18Z</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>
           </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>
        <!-- E2:Packing event (for case SN 456) -->
        <AggregationEvent>
           <eventTime>2016-03-25T17:10:19Z</eventTime>
```

```xml
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.23</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: Shipping event (case SNs 123, 456)-->
    <ObjectEvent>
        <eventTime>2016-03-27T17:10:14Z</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>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111111.0</id>
        </readPoint>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ444</bizTransaction>
        </bizTransactionList>
        <extension>
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            </sourceList>
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- Using a Transaction Event, record the shipping contents specifically associated
with PO# XYZ567 -->
    <TransactionEvent>
        <!-- Use the same eventTime in the transaction event as in the shipping event -->
        <eventTime>2016-03-27T17:10:14Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <bizTransactionList>
            <!-- Associate PO# XYZ567 to the EPCs in the business transaction -->
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
        </bizTransactionList>
```

```xml
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.21</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:030001.111111.0</id>
                </readPoint>
            </TransactionEvent>
            <!-- Using a Transaction Event, record the shipping contents specifically associated
with PO# XYZ444 -->
            <TransactionEvent>
                <!-- Use the same eventTime in the transaction event as in the shipping event -->
                <eventTime>2016-03-27T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <bizTransactionList>
                    <!-- Associate PO# XYZ444 to the EPCs in the business transaction -->
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ444</bizTransaction>
                </bizTransactionList>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.23</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:030001.111111.0</id>
                </readPoint>
            </TransactionEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.1.2   Sample XML: Buyer Receives Product (First Receipt)

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-1A-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-1A: OVERAGE-DISCOVERED AT RECEIVING (KEEP) -->
<!-- Buyer Receives-1st: Step S5:  Buyer receives SN 123, 456, but cannot receive SN 789
because there is no data. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
```

```xml
                </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>2016-03-28T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
```

```xml
                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
            <!-- Buyer -->
            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
        </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E4: Receiving (case SNs 123, 456)-->
        <ObjectEvent>
            <eventTime>2016-03-28T17:10:14Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ444</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 123) -->
```

```xml
        <AggregationEvent>
            <eventTime>2016-03-28T17:20:16Z</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>
            </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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 456) -->
        <AggregationEvent>
            <eventTime>2016-03-28T17:21:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.1.3   Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-1A-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-1A: OVERAGE-DISCOVERED AT RECEIVING (KEEP) -->
<!-- Seller Exchange2: Step 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. Since the buyer
wants to keep the extra case, the seller creates a shipping event to reflect the prior
shipment.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
```

```
    <sbdh:StandardBusinessDocumentHeader>
        <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
        <sbdh:Sender>
            <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
            <sbdh:Identifier
Authority="SGLN">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>2016-03-29T17:10:16Z</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
```

```xml
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Pharma LLC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
    <gs1ushc:dscsaTransactionStatement>
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
    </gs1ushc:dscsaTransactionStatement>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
        <!-- E1: Commissioning (case SN 789 including relevant lowest saleable unit SNs) -->
        <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.33</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>2019-03-31</cbvmda:itemExpirationDate>
```

```xml
            </ilmd>
          </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 789)-->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:18Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.33</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: Shipping event (case SN 789)-->
        <ObjectEvent>
            <!-- Since case SN 789 was already physically shipped,
                      the shipping event date/time for SN 789 needs to reflect the physical
shipping date/time -->
            <eventTime>2016-03-27T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.789</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:B123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ789</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.1.4   Sample XML: Buyer Receives Product (2nd Receipt)

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-1A-BuyerReceives-2nd.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-1A: OVERAGE-DISCOVERED AT RECEIVING (KEEP) -->
<!-- Buyer Receives-2nd: Step S9:  Buyer now receives case SN 789 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-30T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-30T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```xml
                    <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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E7: Receiving (case SN 789)-->
        <ObjectEvent>
            <eventTime>2016-03-30T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.789</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
```

```xml
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:B123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ789</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
            <!-- [Situational: when cases are opened]  E8: Unpacking (case SN 789) -->
            <AggregationEvent>
                <eventTime>2016-03-30T17:20:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
                <childEPCs>
                    <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.33</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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
            </AggregationEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.2 Exception 1-1B: Overage discovered at receiving -- Buyer refuses or returns 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.

6.2.1 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 -> Buyer in the Overage discovered at receiving (Buyer Keeps the Product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-1B-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-1B: OVERAGE - DISCOVERED AT RECEIVING (REFUSE/RETURN)-->
<!-- Seller Exchange1: Step S3:  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.
Included in this example scenario is an illustration of multiple Purchase Orders for the
shipment.
Case SN 123 and all of its contents are associated with PO XYZ567.
Case SN 456 and its contents (LSUs 030001.0012345.21, 030001.0012345.22 and 030001.0012345.23)
are split between 2 POs.
LSU 030001.0012345.21 is under PO XYZ567 while LSUs, 030001.0012345.22 and 030001.0012345.23,
are under PO XYZ444
-->
<!-- Note: 1-1B SellerExchange1 is identical in content to 1-1A SellerExchange1 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
       <sbdh:StandardBusinessDocumentHeader>
           <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
           <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
           </sbdh:Sender>
           <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</sbdh:CreationDateAndTime>
           </sbdh:DocumentIdentification>
       </sbdh:StandardBusinessDocumentHeader>
       <extension>
           <EPCISMasterData>
              <VocabularyList>
```

```xml
<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">00001012345</attribute>
            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
        <!-- Seller -->
        <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">1295 S George Ave</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-6789</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        </VocabularyElement>
        <!-- Buyer -->
        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
    </gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1: Commissioning events (case SNs 123, 456 including relevant lowest saleable
unit SNs) -->
        <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
                <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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:18Z</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>
            </childEPCs>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
```

```xml
        <readPoint>
            <id>urn:epc:id:sgln:030001.111111.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:030001.111111.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- E2: Packing event (for case SN 456) -->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:19Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.23</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: Shipping event (case SNs 123, 456)-->
    <ObjectEvent>
        <eventTime>2016-03-27T17:10:14Z</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>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:030001.111111.0</id>
        </readPoint>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ444</bizTransaction>
        </bizTransactionList>
        <extension>
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            </sourceList>
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
```

```
            <!-- Using a Transaction Event, record the shipping contents specifically associated
with PO# XYZ567 -->
            <TransactionEvent>
                <!-- Use the same eventTime in the transaction event as in the shipping event -->
                <eventTime>2016-03-27T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <bizTransactionList>
                    <!-- Associate PO# XYZ567 to the EPCs in the business transaction -->
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.21</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:030001.111111.0</id>
                </readPoint>
            </TransactionEvent>
            <!-- Using a Transaction Event, record the shipping contents specifically associated
with PO# XYZ444 -->
            <TransactionEvent>
                <!-- Use the same eventTime in the transaction event as in the shipping event -->
                <eventTime>2016-03-27T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <bizTransactionList>
                    <!-- Associate PO# XYZ444 to the EPCs in the business transaction -->
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ444</bizTransaction>
                </bizTransactionList>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.23</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:030001.111111.0</id>
                </readPoint>
            </TransactionEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.2.2 Sample XML: Buyer Receives Product

Note: The message content of *Buyer Receives Product* in this example is identical to the content of the *Buyer Receives Product in the overage discovered at receiving (Buyer Keeps the Product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-1B-BuyerReceives-1st.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-1B: OVERAGE - DISCOVERED AT RECEIVING (REFUSE/RETURN) -->
```

```xml
<!-- Buyer Receives-1st: Step S5:  Buyer receives SN 123, 456, but cannot receive SN 789
because there is no data. -->
<!-- Note: 1-1B BuyerReceives-1st is identical in content to 1-1A BuyerReceives-1st -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-28T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
            <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
                <VocabularyElementList>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E4: Receiving (case SNs 123, 456)-->
        <ObjectEvent>
            <eventTime>2016-03-28T17:10:14Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
            <bizTransactionList>
```

```xml
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ444</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-03-28T17:20:16Z</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>
            </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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 456) -->
        <AggregationEvent>
            <eventTime>2016-03-28T17:21:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

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

6.3.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-2-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-2: TRACEABILITY DATA CONTAINS INCORRECT LOT INFORMATION FOR ENTIRE SHIPMENT -->
<!-- Seller Exchange1: Step S3:  Seller ships two cases from Lot# XYZ. Physical shipment
contains SN 123 and 456. Seller's IT system incorrectly reflects both cases are from Lot#ABC.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
             <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
             <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</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">00001012345</attribute>
                         <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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.*">
```

```xml
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                <!-- Seller -->
                <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">1295 S George
Ave</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer -->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
</EPCISMasterData>
        </extension>
        <gs1ushc:dscsaTransactionStatement>
            <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
            <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
        </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E1: Commissioning events (case SNs 123, 456 including relevant lowest saleable
unit SNs) -->
            <ObjectEvent>
```

```xml
        <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.21</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
            <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>ABC</cbvmda:lotNumber>
                <cbvmda:itemExpirationDate>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
        </extension>
    </ObjectEvent>
    <!-- E2: Packing event (for case SN 123) -->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:18Z</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>
        </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>
    <!-- E2:Packing event (for case SN 456) -->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:19Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
        </childEPCs>
        <action>ADD</action>
        <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
```

```xml
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- E3: Shipping event (case SNs 123, 456)-->
        <ObjectEvent>
            <eventTime>2016-03-27T17:10:14Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.3.2   Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-2-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-2: TRACEABILITY DATA CONTAINS INCORRECT LOT INFORMATION FOR ENTIRE SHIPMENT -->
<!-- Seller Exchange2: S7: 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 commissioning events.  To resolve the issue, the Seller issues
an errorDeclaration for the commissioned events with incorrect lot number and creates
corrective commissioning events for case SNs 123, 456 and the relevant lowest saleable units in
the cases.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:10:16Z">
```

```xml
<EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
        <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
        <sbdh:Sender>
            <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
            <sbdh:Identifier
Authority="SGLN">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>2016-03-28T17:10:16Z</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
```

```xml
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
 </extension>
 <gs1ushc:dscsaTransactionStatement>
     <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
     <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
 </gs1ushc:dscsaTransactionStatement>
 </EPCISHeader>
 <EPCISBody>
   <EventList>
     <!-- E4: Commissioning errorDeclaration (lowest saleable unit SNs, case SNs 123, 456
with Lot#ABC) -->
     <ObjectEvent>
         <eventTime>2016-03-25T17:10:16Z</eventTime>
         <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
         <baseExtension>
             <errorDeclaration>
                 <declarationTime>2016-03-28T10:12:13Z</declarationTime>
                 <reason>urn:epcglobal:cbv:er:incorrect_data</reason>
                 <correctiveEventIDs>
                     <correctiveEventID>urn:uuid:f81d4fae-7dec-11d0-a765-
00a0c91e6bf6</correctiveEventID>
                 </correctiveEventIDs>
             </errorDeclaration>
         </baseExtension>
         <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:030001.0012345.21</epc>
             <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
             <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
```

```xml
                    <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>ABC</cbvmda:lotNumber>
                        <cbvmda:itemExpirationDate>2019-03-31</cbvmda:itemExpirationDate>
                    </ilmd>
                </extension>
            </ObjectEvent>
            <!-- E5: Commissioning (case SNs 123 and 456 including relevant lowest saleable unit
SNs with Lot#XYZ) -->
            <ObjectEvent>
                <eventTime>2016-03-25T17:10:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <baseExtension>
                    <eventID>urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6</eventID>
                </baseExtension>
                <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:030001.0012345.21</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
                    <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>XYZ</cbvmda:lotNumber>
                        <cbvmda:itemExpirationDate>2019-03-31</cbvmda:itemExpirationDate>
                    </ilmd>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.3.3 Sample XML: Buyer Receives Product

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-2-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-2: TRACEABILITY DATA CONTAINS INCORRECT LOT INFORMATION FOR ENTIRE SHIPMENT -->
<!-- Buyer Receives-1st: Step S8:  Buyer now receives case SNs 123 and 456. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-29T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```xml
                            <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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
        <!-- E6: Receiving (case SNs 123, 456)-->
        <ObjectEvent>
            <eventTime>2016-03-29T17:10:14Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </readPoint>
```

```xml
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
            <!-- [Situational: when cases are opened]  E7: Unpacking (case SNs 123) -->
            <AggregationEvent>
                <eventTime>2016-03-29T17:20:16Z</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>
                </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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
            </AggregationEvent>
            <!-- [Situational: when cases are opened]  E7: Unpacking (case SNs 456) -->
            <AggregationEvent>
                <eventTime>2016-03-29T17:21:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
                <childEPCs>
                    <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.23</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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
            </AggregationEvent>
        </EventList>
```

```
    </EPCISBody>
</epcis:EPCISDocument>
```

6.4 Exception 1-3A: Quantity inference problem (concealed overage) -- Seller decides to sell extra product

6.4.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-3A-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-3A: QUANTITY INFERENCE CONCEALED OVERAGE (KEEP)  -->
<!-- Seller Exchange1: S3: Seller physically ships one case thinking there are twelve
serialized lowest saleable units in the case. Physical shipment has SN 123. Seller's IT system
reflects there are 12 serialized lowest saleable units in SN 123.  In reality, there are 13
lowest saleable units.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                <!-- master data for case -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                <!-- Seller -->
                <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">1295 S George
Ave</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer -->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
</EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
```

```xml
        <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
        <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
                <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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:18Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.111</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>
```

```xml
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- E3: Shipping event (case SNs 123)-->
        <ObjectEvent>
            <eventTime>2016-03-27T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.4.2   Sample XML: Buyer Receives Product (First Receipt)

Reference File: <u>https://resources.gs1us.org/Portals/0/xml/Scenario-1-3A-BuyerReceives-1st.xml</u>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-3A: QUANTITY INFERENCE CONCEALED OVERAGE (KEEP) -->
<!-- Buyer Receives-1st: Step S5: Buyer receives SN 123.
                         Step S6: Buyer opens up case SN 123 and discovers there are
thirteen SNs inside. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
```

```xml
            <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-28T17:30:16Z</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
```

```xml
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer -->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
</EPCISMasterData>
        </extension>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E4: Receiving (case SN 123) -->
            <ObjectEvent>
                <eventTime>2016-03-28T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
            <!-- E5: Unpacking (case SN 123) -->
```

```xml
            <!-- Only 12 LSUs are included in the unpacking event since there's no data for the
extra LSU SN 112 -->
            <AggregationEvent>
                <eventTime>2016-03-28T17:20:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
                <childEPCs>
                    <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.111</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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
            </AggregationEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.4.3 Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-3A-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- SCENARIO 1-3A: QUANTITY INFERENCE CONCEALED OVERAGE (KEEP) -->
<!-- Seller Exchange2: Step S9:  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 creates a
shipment message so buyer can keep SN 112.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
```

```xml
            </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>2016-03-29T17:10:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                            </VocabularyElement>
                            <!-- Buyer -->
                            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                        </VocabularyElementList>
```

```xml
            </Vocabulary>
          </VocabularyList>
        </EPCISMasterData>
      </extension>
      <gs1ushc:dscsaTransactionStatement>
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
      </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
      <EventList>
        <!-- E1: Commissioning (lowest saleable unit SN 112) -->
        <ObjectEvent>
          <eventTime>2016-03-25T17:10:16Z</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>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
          </extension>
        </ObjectEvent>
        <!-- E6: Shipping (lowest saleable unit SN 112)-->
        <ObjectEvent>
          <!-- Since case SN 112 was already physically shipped,
                the shipping event date/time for SN 112 needs to reflect the physical
shipping date/time -->
          <eventTime>2016-03-27T17:10:14Z</eventTime>
          <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
          <epcList>
            <epc>urn:epc:id:sgtin:030001.0012345.112</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:030001.111111.0</id>
          </readPoint>
          <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:B123</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ112</bizTransaction>
          </bizTransactionList>
          <extension>
            <sourceList>
              <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
```

```xml
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.4.4 Sample XML: Buyer Receives Product (2nd Receipt)

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-1-3A-BuyerReceives-2nd.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- SCENARIO 1-3A: QUANTITY INFERENCE CONCEALED OVERAGE (KEEP) -->
<!-- Buyer Receives-2nd: Step S10:  Buyer now receives lowest saleable unit SN 112. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-30T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-30T17:30:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
        <EPCISMasterData>
            <VocabularyList>
                <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                    <VocabularyElementList>
                        <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">500
pills</attribute>
                        </VocabularyElement>
                    </VocabularyElementList>
                </Vocabulary>
                <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
                    <VocabularyElementList>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E7: Receiving (lowest saleable unit SN 112)-->
        <ObjectEvent>
            <eventTime>2016-03-30T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.112</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:B123</bizTransaction>
```

```xml
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ112</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.5 Exception 1-3B: Quantity inference problem (concealed overage) -- Seller asks Buyer to return the 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.

6.5.1 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 -> Buyer in the quantity inference problem – concealed overage (Seller decides to sell extra product)* example.

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-1-3B-SellerExchange1.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-3B: QUANTITY INFERENCE CONCEALED OVERAGE (RETURN)  -->
<!-- Seller Exchange1: S3: Seller physically ships one case thinking there are twelve
serialized lowest saleable units in the case. Physical shipment has SN 123. Seller's IT system
reflects there are 12 serialized lowest saleable units in SN 123.  In reality, there are 13
lowest saleable units.
-->
<!-- Note: 1-3B SellerExchange1 is identical in content to 1-3A SellerExchange1 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</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">00001012345</attribute>
```

```xml
				<attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
				<attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
			<!-- Seller -->
			<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">1295 S George
Ave</attribute>
				<attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
				<attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
				<attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
				<attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
				<attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
			</VocabularyElement>
			<!-- Buyer -->
			<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
				<attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
		</VocabularyElementList>
	</Vocabulary>
```

```xml
                </VocabularyList>
            </EPCISMasterData>
        </extension>
        <gs1ushc:dscsaTransactionStatement>
            <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
            <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
        </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
            <ObjectEvent>
                <eventTime>2016-03-25T17:10:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
                    <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>2019-03-31</cbvmda:itemExpirationDate>
                    </ilmd>
                </extension>
            </ObjectEvent>
            <!-- E2: Packing event (for case SN 123) -->
            <AggregationEvent>
                <eventTime>2016-03-25T17:10:18Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
                <childEPCs>
                    <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
```

```xml
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.111</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: Shipping event (case SNs 123)-->
        <ObjectEvent>
            <eventTime>2016-03-27T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.5.2 Sample XML: Buyer Receives Product

✅ **Note**: The message content of *Buyer Receives Product* in this example is identical to the content of the *Buyer Receives Product in the quantity inference problem – concealed overage (Seller decides to sell extra product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-3B-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-3B: QUANTITY INFERENCE CONCEALED OVERAGE (RETURN)  -->
<!-- Buyer Receives-1st: Step S5: Buyer receives SN 123.
                                  Step S6: Buyer opens up case SN 123 and discovers there are
thirteen SNs inside. -->
<!-- Note: 1-3B BuyerReceives-1st is identical in content to 1-3A BuyerReceives-1st -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-28T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                    <!-- master data for case -->
                    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
  </extension>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E4: Receiving (case SN 123) -->
    <ObjectEvent>
      <eventTime>2016-03-28T17:10:14Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
```

```xml
        </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:039999.999999.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.999999.0</id>
        </bizLocation>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
        </bizTransactionList>
        <extension>
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            </sourceList>
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- E5: Unpacking (case SN 123) -->
    <AggregationEvent>
        <!-- Only 12 LSUs are included in the unpacking event since there's no data for
the extra LSU SN 112 -->
        <eventTime>2016-03-28T17:20:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.111</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:039999.999999.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.999999.0</id>
        </bizLocation>
    </AggregationEvent>
  </EventList>
 </EPCISBody>
</epcis:EPCISDocument>
```

6.6 Exception 1-4A: Incorrect traceability data -- serial number in Shipping event is incorrect

6.6.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-1-4A-SellerExchange1.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4A: TRACEABILITY DATA CONTAINS INCORRECT SERIAL NUMBER IN SHIPPING EVENT -->
<!-- Seller Exchange1: Step S3:  Seller ships three cases. Physical shipment has SN 123, 456,
and 789.
The seller's system sends the commissioning, packing and shipping events for SN 123 & 456.
However, instead of sending event information for SN 789, the seller's IT system mistakenly
sends commissioning, packing and shipping events associated with SN 891 which causes a mismatch
with the physically shipped case SN 789.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                    <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">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                <!-- Seller -->
                <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">1295 S George
Ave</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer -->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
</EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
```

```xml
<EPCISBody>
    <EventList>
        <!-- E1: Commissioning (case SNs 123, 456, 891 including relevant lowest saleable
unit SNs) -->
        <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.41</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.42</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.43</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.456</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.891</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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:18Z</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>
            </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>
        <!-- E2:Packing event (for case SN 456) -->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:19Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
```

```xml
            <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</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>
        <!-- E2: Packing event (for case SN 891)-->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:20Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.891</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.41</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.42</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.43</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: Shipping (case SNs 123, 456, 891) -->
        <ObjectEvent>
            <eventTime>2016-03-27T17:10:14Z</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:030001.1012345.891</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
```

```
            </sourceList>
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            </destinationList>
        </extension>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.6.2   Sample XML: Buyer Receives Product (First Receipt)

Note: The message content of *Buyer Receives Product* in this example is identical to the content of the [*Buyer Receives Product in the overage discovered at receiving*](#) example.

Reference File: [*https://resources.gs1us.org/Portals/0/xml/Scenario-1-4A-BuyerReceives-1st.xml*](https://resources.gs1us.org/Portals/0/xml/Scenario-1-4A-BuyerReceives-1st.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4A: TRACEABILITY DATA CONTAINS INCORRECT SERIAL NUMBER IN SHIPPING EVENT -->
<!-- Buyer Receives-1st: Step S5:  Buyer receives SN 123, 456, but cannot receive 789 because
there is no supporting shipping event for SN 789. -->
<!-- Note: 1-4A BuyerReceives-1st is identical in content to 1-1A BuyerReceives-1st -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
             <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
             <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-28T17:30:16Z</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">00001012345</attribute>
                         <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
```

```xml
                        <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">00001012345</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
```

```
            </extension>
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <!-- E4: Receiving (case SNs 123, 456)-->
                <ObjectEvent>
                    <eventTime>2016-03-28T17:10:14Z</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>OBSERVE</action>
                    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
                    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
                    <readPoint>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </bizLocation>
                    <bizTransactionList>
                        <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                    </bizTransactionList>
                    <extension>
                        <sourceList>
                            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                        </sourceList>
                        <destinationList>
                            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                        </destinationList>
                    </extension>
                </ObjectEvent>
                <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 123) -->
                <AggregationEvent>
                    <eventTime>2016-03-28T17:20:16Z</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>
                    </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:039999.999999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </bizLocation>
                </AggregationEvent>
                <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 456) -->
                <AggregationEvent>
                    <eventTime>2016-03-28T17:21:16Z</eventTime>
```

```xml
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.6.3 Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-4A-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4A: TRACEABILITY DATA CONTAINS INCORRECT SERIAL NUMBER IN SHIPPING EVENT -->
<!-- Seller Exchange2: Step S8:  Seller investigates shipping event discrepancy between case
789 and 891. The result of the investigation is that case 789 is legitimate but the previously
recorded shipping event data is flawed.  The Seller voids the previous Shipping event for SN
891 and creates a new Shipping event for case SN 789.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100220018</sbdh:InstanceIdentifier>
              <sbdh:Type>Events</sbdh:Type>
              <sbdh:CreationDateAndTime>2016-03-29T17:10:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
      <extension>
          <EPCISMasterData>
              <VocabularyList>
                  <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
```

```xml
                    <VocabularyElementList>
                        <!-- master data for lowest saleable unit -->
                        <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
```

```xml
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gs1ushc:dscsaTransactionStatement>
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
    </gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E6: voidShipping (case SN 891) -->
        <ObjectEvent>
            <eventTime>2016-03-29T17:10:10Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.891</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E1: Commissioning (case SNs 789 including relevant lowest saleable unit SNs) -->
        <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.33</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
            </epcList>
            <action>ADD</action>
```

```xml
            <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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 789)-->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:20Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.33</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: Shipping (case SN 789) -->
        <ObjectEvent>
            <!-- Since case SN 789 was already physically shipped,
                    the shipping event date/time for SN 789 needs to reflect the physical
shipping date/time -->
            <eventTime>2016-03-27T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.789</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
```

```
        </sourceList>
        <destinationList>
            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

6.6.4 Sample XML: Buyer Receives Product (2nd Receipt)

Note: The message content of *Buyer Receives Product (2nd Receipt)* in this example is identical to the content of the *Buyer Receives Product (2nd Receipt) in the overage discovered at receiving* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-4A-BuyerReceives-2nd.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4A: TRACEABILITY DATA CONTAINS INCORRECT SERIAL NUMBER IN SHIPPING EVENT -->
<!-- Buyer Receives-2nd: Step S9:  Buyer now receives case 789 -->
<!-- Note: 1-4A BuyerReceives-2nd is identical in content to 1-1A BuyerReceives-2nd -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-30T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-30T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
```

```xml
                <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">00001012345</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
            <!-- Seller -->
            <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">1295 S George
Ave</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
            <!-- Buyer -->
            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
        </VocabularyElementList>
    </Vocabulary>
</VocabularyList>
</EPCISMasterData>
```

```xml
                </extension>
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <!-- E8: Receiving (case SN 789) -->
                <ObjectEvent>
                    <eventTime>2016-03-30T17:10:14Z</eventTime>
                    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                    <epcList>
                        <epc>urn:epc:id:sgtin:030001.1012345.789</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:039999.999999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </bizLocation>
                    <bizTransactionList>
                        <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                    </bizTransactionList>
                    <extension>
                        <sourceList>
                            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                        </sourceList>
                        <destinationList>
                            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                        </destinationList>
                    </extension>
                </ObjectEvent>
                <!-- [Situational: when cases are opened] E9: Unpacking (case SN 789) -->
                <AggregationEvent>
                    <eventTime>2016-03-30T17:20:16Z</eventTime>
                    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
                    <childEPCs>
                        <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                        <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                        <epc>urn:epc:id:sgtin:030001.0012345.33</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:039999.999999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </bizLocation>
                </AggregationEvent>
            </EventList>
        </EPCISBody>
</epcis:EPCISDocument>
```

6.7 Exception 1-4B: Incorrect traceability data – Shipping event contains incorrect Sold-To information

6.7.1 Sample XML: Exchange1: Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-4B-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4B: TRACEABILITY DATA CONTAINS INCORRECT SOLD-TO INFORMATION IN THE SHIPPING
EVENT -->
<!-- Seller Exchange1: Step S3:  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 Sold-To entity in the Shipping Event is XYZ instead of ABC.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:26Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100220020</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-27T17:10:26Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
<!-- master data for case -->
<VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
    <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
    <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
            <!-- Seller -->
            <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">1295 S George Ave</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-6789</attribute>
                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            </VocabularyElement>
            <!-- Buyer -->
            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro-ABC LLC</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>
            <!-- Incorrect Buyer Sold To -->
            <VocabularyElement id="urn:epc:id:sgln:069999.999999.0">
                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro-XYZ LLC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">430 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>
```

```xml
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E1: Commissioning (case SNs 123, 456, 789 including relevant lowest saleable
unit SNs) -->
            <ObjectEvent>
                <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.21</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.23</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                    <epc>urn:epc:id:sgtin:030001.0012345.33</epc>
                    <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>2019-03-31</cbvmda:itemExpirationDate>
                    </ilmd>
                </extension>
            </ObjectEvent>
            <!-- E2: Packing event (for case SN 123) -->
            <AggregationEvent>
                <eventTime>2016-03-25T17:10:18Z</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>
                </childEPCs>
                <action>ADD</action>
                <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
                <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
```

```xml
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:030001.111111.0</id>
    </bizLocation>
</AggregationEvent>
<!-- E2:Packing event (for case SN 456) -->
<AggregationEvent>
    <eventTime>2016-03-25T17:10:19Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.23</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>
<!--  E2:Packing event (for case SN 789) -->
<AggregationEvent>
    <eventTime>2016-03-25T17:10:20Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.33</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: Shipping event (case SNs 123, 456, 789)-->
<ObjectEvent>
    <eventTime>2016-03-27T17:10:22Z</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>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:030001.111111.0</id>
```

```
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <!-- Incorrect Sold-To party identified in the bizTransaction PO document -->
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0699999999992:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <!-- Step S3:  The Seller's system records the incorrect Sold-To entity in the
Shipping Event -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:069999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.7.2   Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-4B-SellerExchange2.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4B: TRACEABILITY DATA CONTAINS INCORRECT SOLD-TO INFORMATION IN THE SHIPPING
EVENT -->
<!-- Seller Exchange2: Step S7:  Upon investigating the discrepancy in the shipping event, the
seller determines that the shipment of SN 123,456 and 789 to ABC is legitimate but the
previously recorded shipping event data is flawed.  The Seller voids the previous Shipping
event with incorrect Sold-To and creates a new Shipping event for case SN 123,456 and 789 with
ABC as Sold-To.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>2016-03-29T17:10:16Z</sbdh:CreationDateAndTime>
```

```xml
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <!-- master data for case -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                            </VocabularyElement>
                            <!-- Buyer -->
                            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro-ABC
LLC</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>
                            <!-- Incorrect Buyer Sold To -->
                            <VocabularyElement id="urn:epc:id:sgln:069999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro-XYZ
LLC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">430 Park Ave
S</attribute>
```

```xml
                        <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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E4: voidShipping (case SNs 123, 456, 789) with Sold-To as XYZ -->
        <ObjectEvent>
            <eventTime>2016-03-29T17:10:10Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <!-- Incorrect Sold-To party identified in the bizTransaction PO document -->
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0699999999992:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <!-- The Seller's system records the incorrect Sold-To entity in the Shipping
Event -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:069999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E5: Shipping (case SNs 123, 456, 789) with Sold-To as ABC -->
        <ObjectEvent>
```

```xml
        <!-- Since case SN 123, 456, and 789 were already physically shipped,
                    the shipping event date/time needs to reflect the physical shipping
date/time -->
            <eventTime>2016-03-27T17:10:22Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <!-- Assign Correct Sold-To entity in the Shipping Event -->
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.7.3   Sample XML: Buyer Receives Product

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-1-4B-BuyerReceives-1st.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-4B: TRACEABILITY DATA CONTAINS INCORRECT SOLD-TO INFORMATION IN THE SHIPPING
EVENT -->
<!-- Buyer Receives-1st: Step S8:  Buyer now receives case SNs 123, 456, and 789. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-30T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
```

```xml
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-30T17:30:16Z</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
```

```xml
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
        <!-- E6: Receiving (case SNs 123, 456, 789) -->
        <ObjectEvent>
            <eventTime>2016-03-30T17:10:14Z</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>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
```

```xml
        <!-- [Situational: when cases are opened]  E7: Unpacking (case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-03-30T17:20:16Z</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>
            </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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- [Situational: when cases are opened]  E7: Unpacking (case SNs 456) -->
        <AggregationEvent>
            <eventTime>2016-03-30T17:21:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.456</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.21</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.22</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.23</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- [Situational: when cases are opened]  E7: Unpacking (case SNs 789) -->
        <AggregationEvent>
            <eventTime>2016-03-30T17:22:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.33</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
    </EventList>
```

```xml
    </EPCISBody>
</epcis:EPCISDocument>
```

6.8   Exception 1-5: No traceability data is received

6.8.1   Sample XML: Exchange1 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-5-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-5: TRACEABILITY DATA IS NOT RECEIVED BY BUYER -->
<!-- Seller Exchange1: Step S7:  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 commissioning, packing and shipping events corresponding to case SN 123.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>2016-03-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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.*">
```

```xml
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                     <!-- Seller -->
                     <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                     </VocabularyElement>
                     <!-- Buyer -->
                     <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                  </VocabularyElementList>
               </Vocabulary>
            </VocabularyList>
         </EPCISMasterData>
      </extension>
      <gs1ushc:dscsaTransactionStatement>
         <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
         <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
      </gs1ushc:dscsaTransactionStatement>
   </EPCISHeader>
   <EPCISBody>
      <EventList>
         <!-- E1: Commissioning (case SN 123 including relevant lowest saleable unit SNs)  -->
         <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</eventTime>
```

```xml
<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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
    </ilmd>
</extension>
</ObjectEvent>
<!-- E2: Packing event (for case SN 123) -->
<AggregationEvent>
    <eventTime>2016-03-25T17:10:18Z</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>
    </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: Shipping (case SN 123) -->
<ObjectEvent>
    <eventTime>2016-03-27T17:10:14Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
    </readPoint>
    <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
```

```xml
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.8.2 Sample XML: Buyer Receives Product

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-1-5-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 1-5: TRACEABILITY DATA IS NOT RECEIVED BY BUYER -->
<!-- Buyer Receives-1st: Step S8:  Buyer now receives case SN 123 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</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>2016-03-28T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```xml
                    <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">00001012345</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro LLC</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>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
</EPCISHeader>
```

```xml
    <EPCISBody>
        <EventList>
            <!-- E4: Receiving (case SN 123)-->
            <ObjectEvent>
                <eventTime>2016-03-28T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
            <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 123) -->
            <AggregationEvent>
                <eventTime>2016-03-28T17:20:16Z</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>
                </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:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
            </AggregationEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.9   Exception 2-1A: Shortage discovered at receiving -- Buyer wants to receive the missing product

6.9.1   Sample XML: Exchange1 - Seller -> Buyer

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-2-1A-SellerExchange1.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-1A: SHORTAGE DISCOVERED AT RECEIVING (FULFILL MISSING CASE) -->
<!-- Seller Exchange1: Step S3:  Seller ships only two cases by mistake. Physical shipment has
SN 123 and 456.
     Seller's IT system reflects SN 123, 456 and 789 have been shipped.
     This example uses 2 GTINs: GTIN 00300010123455 for case SNs 123 and 789 GTIN
00300010246802 for case SN 456
     This example also illustrates direct purchase statement variation wherein SN 123 and 789
are directly purchased but SN 456 is indirectly purchased
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100420001</sbdh:InstanceIdentifier>
              <sbdh:Type>Events</sbdh:Type>
              <sbdh:CreationDateAndTime>2016-03-27T17:10:16Z</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">00001012345</attribute>
                              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                    <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">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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 lowest saleable unit -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.0024680.*">
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
                </VocabularyElement>
                <!-- master data for case -->
                <VocabularyElement id="urn:epc:idpat:sgtin:030001.1024680.*">
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
                </VocabularyElement>
            </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
            <VocabularyElementList>
                <!-- Seller -->
                <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Distributor
LLC</attribute>
```

```xml
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
  </extension>
  <gs1ushc:dscsaTransactionStatement>
      <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
      <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G). As indicated below, product was purchased directly from the manufacturer,
manufacturer's exclusive distributor or repackager who purchased directly from a
manufacturer.</gs1ushc:legalNotice>
  </gs1ushc:dscsaTransactionStatement>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <!-- E1: Commissioning events (case SNs 123 and 789 including relevant lowest
saleable unit SNs) -->
      <ObjectEvent>
          <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.31</epc>
              <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
              <epc>urn:epc:id:sgtin:030001.0012345.33</epc>
              <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:commissioning</bizStep>
          <disposition>urn:epcglobal:cbv:disp:active</disposition>
          <readPoint>
              <id>urn:epc:id:sgln:030001.111111.0</id>
          </readPoint>
          <bizLocation>
```

```xml
            <id>urn:epc:id:sgln:030001.111111.0</id>
        </bizLocation>
        <extension>
            <ilmd>
                <cbvmda:lotNumber>A123</cbvmda:lotNumber>
                <cbvmda:itemExpirationDate>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
        </extension>
    </ObjectEvent>
    <!-- 2nd GTIN -->
    <!-- E1: Commissioning events (case SN 456 including relevant lowest saleable unit
SNs) -->
    <ObjectEvent>
        <eventTime>2016-03-25T17:10:17Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.0024680.21</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.22</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.23</epc>
            <epc>urn:epc:id:sgtin:030001.1024680.456</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>G123</cbvmda:lotNumber>
                <cbvmda:itemExpirationDate>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
        </extension>
    </ObjectEvent>
    <!-- E2: Packing event (for case SN 123) -->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:18Z</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>
        </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>
    <!-- E2:Packing event (for case SN 456) -->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:19Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
```

```xml
        <parentID>urn:epc:id:sgtin:030001.1024680.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0024680.21</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.22</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.23</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>
    <!-- E2: Packing event (for case SN 789)-->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:20Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.33</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: Shipping event (case SNs 123, 456, 789)-->
    <ObjectEvent>
        <eventTime>2016-03-27T17:10:14Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1024680.456</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.789</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:030001.111111.0</id>
        </readPoint>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
        </bizTransactionList>
        <extension>
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
```

```xml
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
            <gs1ushc:directPurchase value="true">
                <directPurchaseEPCs>
                    <!-- Case SNs 123, 789 are directly purchased -->
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
                </directPurchaseEPCs>
            </gs1ushc:directPurchase>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.9.2   Sample XML: Buyer Receives Product

Reference File: <u>https://resources.gs1us.org/Portals/0/xml/Scenario-2-1A-BuyerReceives-1st.xml</u>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-1A: SHORTAGE DISCOVERED AT RECEIVING (FULFILL MISSING CASE) -->
<!-- Buyer Receives-1st: Step S5:  Buyer receives SN 123, 456, but cannot receive SN 789 since
the physical case is missing. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100420002</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-28T17:30:16Z</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">00001012345</attribute>
```

```xml
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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 lowest saleable unit -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0024680.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
            </VocabularyElement>
            <!-- master data for case -->
            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1024680.*">
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
```

```xml
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
            <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
                <VocabularyElementList>
                    <!-- Seller -->
                    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Distributor
LLC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E4: Receiving (case SNs 123, 456)-->
        <ObjectEvent>
            <eventTime>2016-03-28T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                <epc>urn:epc:id:sgtin:030001.1024680.456</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
```

```xml
                        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                    </bizTransactionList>
                    <extension>
                        <sourceList>
                            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                        </sourceList>
                        <destinationList>
                            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                        </destinationList>
                    </extension>
                </ObjectEvent>
                <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 123) -->
                <AggregationEvent>
                    <eventTime>2016-03-28T17:20:16Z</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>
                    </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:039999.999999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </bizLocation>
                </AggregationEvent>
                <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 456) -->
                <AggregationEvent>
                    <eventTime>2016-03-28T17:21:16Z</eventTime>
                    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                    <parentID>urn:epc:id:sgtin:030001.1024680.456</parentID>
                    <childEPCs>
                        <epc>urn:epc:id:sgtin:030001.0024680.21</epc>
                        <epc>urn:epc:id:sgtin:030001.0024680.22</epc>
                        <epc>urn:epc:id:sgtin:030001.0024680.23</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:039999.999999.0</id>
                    </readPoint>
                    <bizLocation>
                        <id>urn:epc:id:sgln:039999.999999.0</id>
                    </bizLocation>
                </AggregationEvent>
            </EventList>
        </EPCISBody>
</epcis:EPCISDocument>
```

6.9.3   Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-1A-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-1A: SHORTAGE DISCOVERED AT RECEIVING (FULFILL MISSING CASE) -->
<!-- Seller Exchange2:
     Step S7: Seller investigates shipping discrepancy.   Since case SN 789 was omitted from
the shipment, seller voids the prior shipping event for SN 789.
     In Step S8, the seller processes 2nd shipment to fulfill 3rd case in the order.   The
processing of the 2nd shipment is not in the scope of this example XML.
     This example also illustrates direct purchase statement variation wherein SN  789 is
directly purchased
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100420003</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-29T17:10:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <!-- master data for case -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
            </Vocabulary>
            <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
               <VocabularyElementList>
                  <!-- Seller -->
                  <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                     <attribute id="urn:epcglobal:cbv:mda#name">GS1 Distributor
LLC</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                  </VocabularyElement>
                  <!-- Buyer -->
                  <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                     <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
               </VocabularyElementList>
            </Vocabulary>
         </VocabularyList>
      </EPCISMasterData>
   </extension>
   <gs1ushc:dscsaTransactionStatement>
      <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
      <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G). As indicated below, product was purchased directly from the manufacturer,
manufacturer's exclusive distributor or repackager who purchased directly from a
manufacturer.</gs1ushc:legalNotice>
   </gs1ushc:dscsaTransactionStatement>
   </EPCISHeader>
   <EPCISBody>
      <EventList>
         <!-- E6: voidShipping (case SN 789)-->
         <ObjectEvent>
            <eventTime>2016-03-29T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
               <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
```

```xml
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
                <gs1ushc:directPurchase value="true">
                    <directPurchaseEPCs>
                        <!-- Case SN 789 are directly purchased -->
                        <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
                    </directPurchaseEPCs>
                </gs1ushc:directPurchase>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

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

6.10.1 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 -> Buyer in the shortage discovered at receiving (Buyer wants to receive missing product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-1B-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-1B: SHORTAGE DISCOVERED AT RECEIVING (CANCEL) -->
<!-- Seller Exchange1: Step S3:  Seller ships only two cases by mistake. Physical shipment has
SN 123 and 456.
     Seller's IT system reflects SN 123, 456 and 789 have been shipped.
     This example uses 2 GTINs: GTIN 00300010123455 for case SNs 123 and 789 GTIN
00300010246802 for case SN 456
     This example also illustrates direct purchase statement variation wherein SN 123 and 789
are directly purchased but SN 456 is indirectly purchased
-->
<!-- Note: 2-1B SellerExchange1 is identical in content to 2-1A SellerExchange1 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100420001</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
```

```xml
                <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">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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 lowest saleable unit -->
                    <VocabularyElement id="urn:epc:idpat:sgtin:030001.0024680.*">
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
                    </VocabularyElement>
                    <!-- master data for case -->
                    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1024680.*">
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
```

```xml
            </Vocabulary>
            <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
               <VocabularyElementList>
                  <!-- Seller -->
                  <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                     <attribute id="urn:epcglobal:cbv:mda#name">GS1 Distributor
LLC</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                     <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                  </VocabularyElement>
                  <!-- Buyer -->
                  <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                     <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
               </VocabularyElementList>
            </Vocabulary>
         </VocabularyList>
      </EPCISMasterData>
   </extension>
   <gs1ushc:dscsaTransactionStatement>
      <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
      <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G). As indicated below, product was purchased directly from the manufacturer,
manufacturer's exclusive distributor or repackager who purchased directly from a
manufacturer.</gs1ushc:legalNotice>
   </gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
   <EventList>
      <!-- E1: Commissioning events (case SNs 123, 456 and 789 including relevant lowest
saleable unit SNs) -->
      <ObjectEvent>
         <eventTime>2016-03-25T17:10:16Z</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:030001.0012345.31</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
            <epc>urn:epc:id:sgtin:030001.0012345.33</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
         </epcList>
```

```xml
        <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>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
        </extension>
    </ObjectEvent>
    <!-- 2nd GTIN -->
    <!-- E1: Commissioning events (case SN 456 including relevant lowest saleable unit
SNs) -->
    <ObjectEvent>
        <eventTime>2016-03-25T17:10:17Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.0024680.21</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.22</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.23</epc>
            <epc>urn:epc:id:sgtin:030001.1024680.456</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>G123</cbvmda:lotNumber>
                <cbvmda:itemExpirationDate>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
        </extension>
    </ObjectEvent>
    <!-- E2: Packing event (for case SN 123) -->
    <AggregationEvent>
        <eventTime>2016-03-25T17:10:18Z</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>
        </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>
```

```xml
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- E2:Packing event (for case SN 456) -->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:19Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1024680.456</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0024680.21</epc>
                <epc>urn:epc:id:sgtin:030001.0024680.22</epc>
                <epc>urn:epc:id:sgtin:030001.0024680.23</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>
        <!-- E2: Packing event (for case SN 789)-->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:20Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.789</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.31</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.32</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.33</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: Shipping event (case SNs 123, 456, 789)-->
        <ObjectEvent>
            <eventTime>2016-03-27T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                <epc>urn:epc:id:sgtin:030001.1024680.456</epc>
                <epc>urn:epc:id:sgtin:030001.1012345.789</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
```

```xml
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
            <gs1ushc:directPurchase value="true">
                <directPurchaseEPCs>
                    <!-- Case SNs 123, 789 are directly purchased -->
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
                </directPurchaseEPCs>
            </gs1ushc:directPurchase>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.10.2 Sample XML: Buyer Receives Product

Note: The message content of *Buyer Receives Product* in this example is identical to the content of the *Buyer Receives Product in the shortage discovered at receiving (Buyer wants to receive missing product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-1B-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-1B: SHORTAGE DISCOVERED AT RECEIVING (CANCEL) -->
<!-- Buyer Receives-1st: Step S5:  Buyer receives SN 123, 456, but cannot receive SN 789 since
the physical case is missing. -->
<!-- Note: 2-1B Buyer Receives-1st is identical in content to 2-1A Buyer Receives-1st -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
        <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
        <sbdh:Sender>
            <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
        </sbdh:Sender>
        <sbdh:Receiver>
            <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
        </sbdh:Receiver>
        <sbdh:DocumentIdentification>
            <sbdh:Standard>EPCglobal</sbdh:Standard>
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100420002</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
```

```xml
                <sbdh:CreationDateAndTime>2016-03-28T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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 lowest saleable unit -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0024680.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
                            </VocabularyElement>
                            <!-- master data for case -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1024680.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001024680</attribute>
```

```xml
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcisgen</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">GS1 Pharma LLC</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#dosageFormType">TABLET</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#strengthDescription">300mg</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#netContentDescription">200
tablets</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
            <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
                <VocabularyElementList>
                    <!-- Seller -->
                    <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Distributor
LLC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
          </VocabularyList>
        </EPCISMasterData>
      </extension>
   </EPCISHeader>
   <EPCISBody>
     <EventList>
        <!-- E4: Receiving (case SNs 123, 456)-->
        <ObjectEvent>
           <eventTime>2016-03-28T17:10:14Z</eventTime>
           <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
           <epcList>
              <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
              <epc>urn:epc:id:sgtin:030001.1024680.456</epc>
           </epcList>
```

```xml
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
            <id>urn:epc:id:sgln:039999.999999.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.999999.0</id>
        </bizLocation>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
        </bizTransactionList>
        <extension>
            <sourceList>
                <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
            </sourceList>
            <destinationList>
                <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
            </destinationList>
        </extension>
    </ObjectEvent>
    <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 123) -->
    <AggregationEvent>
        <eventTime>2016-03-28T17:20:16Z</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>
        </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:039999.999999.0</id>
        </readPoint>
        <bizLocation>
            <id>urn:epc:id:sgln:039999.999999.0</id>
        </bizLocation>
    </AggregationEvent>
    <!-- [Situational: when cases are opened]  E5: Unpacking (case SN 456) -->
    <AggregationEvent>
        <eventTime>2016-03-28T17:21:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:030001.1024680.456</parentID>
        <childEPCs>
            <epc>urn:epc:id:sgtin:030001.0024680.21</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.22</epc>
            <epc>urn:epc:id:sgtin:030001.0024680.23</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:039999.999999.0</id>
```

```
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
      </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.10.3 Sample XML: Exchange2 - Seller -> Buyer

Note: The message content of *Exchange2 of Seller -> Buyer* in this example is identical to the content of the *Exchange2 of Seller -> Buyer in the shortage discovered at receiving (Buyer wants to receive missing product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-1B-SellerExchange2.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-1B: SHORTAGE DISCOVERED AT RECEIVING (CANCEL) -->
<!-- Seller Exchange2:
      Step S7: Seller investigates shipping discrepancy.   Since case SN 789 was omitted from
the shipment, seller voids the prior shipping event for SN 789.
      In this business scenario of short shipment, the buyer is cancelling the order for case
SN 789.  Therefore, the scenario ends with the voidShipping in Step S7.
      This example also illustrates direct purchase statement variation wherein SN  789 is
directly purchased
-->
<!-- Note: 2-1B SellerExchange2 is identical in content to 2-1A SellerExchange2 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
       <sbdh:StandardBusinessDocumentHeader>
           <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
           <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
           </sbdh:Sender>
           <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100420003</sbdh:InstanceIdentifier>
              <sbdh:Type>Events</sbdh:Type>
              <sbdh:CreationDateAndTime>2016-03-29T17:10:16Z</sbdh:CreationDateAndTime>
           </sbdh:DocumentIdentification>
       </sbdh:StandardBusinessDocumentHeader>
       <extension>
           <EPCISMasterData>
              <VocabularyList>
                 <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                    <VocabularyElementList>
                       <!-- master data for case -->
                       <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
```

```xml
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                      <!-- Seller -->
                      <VocabularyElement id="urn:epc:id:sgln:030001.111111.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Distributor
LLC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                      </VocabularyElement>
                      <!-- Buyer -->
                      <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                    </VocabularyElementList>
                  </Vocabulary>
                </VocabularyList>
              </EPCISMasterData>
          </extension>
          <gs1ushc:dscsaTransactionStatement>
              <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
              <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G). As indicated below, product was purchased directly from the manufacturer,
manufacturer's exclusive distributor or repackager who purchased directly from a
manufacturer.</gs1ushc:legalNotice>
          </gs1ushc:dscsaTransactionStatement>
      </EPCISHeader>
      <EPCISBody>
          <EventList>
```

```xml
        <!-- E6: voidShipping (case SN 789)-->
        <ObjectEvent>
            <eventTime>2016-03-29T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
            <gs1ushc:directPurchase value="true">
                <directPurchaseEPCs>
                    <!-- Case SN 789 are directly purchased -->
                    <epc>urn:epc:id:sgtin:030001.1012345.789</epc>
                </directPurchaseEPCs>
            </gs1ushc:directPurchase>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.11   Exception 2-2: Quantity inference problem (concealed shortage)

6.11.1 Sample XML: Exchange1: Seller -> Buyer

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-2-2-SellerExchange1.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-2: QUANTITY INFERENCE (CONCEALED SHORTAGE)  -->
<!-- Seller Exchange1: S3: Seller physically ships one case thinking there are twelve
serialized lowest saleable units in the case. Physical shipment has SN 123. Seller's IT system
reflects there are 12 serialized lowest saleable units in SN 123.  In reality, the case
contains 11 lowest saleable units.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100420010</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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 -->
```

```xml
                    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
    <gs1ushc:dscsaTransactionStatement>
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
    </gs1ushc:dscsaTransactionStatement>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
        <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
```

```xml
<ObjectEvent>
    <eventTime>2016-04-25T17:10:16Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
        <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>2019-03-31</cbvmda:itemExpirationDate>
        </ilmd>
    </extension>
</ObjectEvent>
<!-- E2: Packing event (for case SN 123) -->
<AggregationEvent>
    <eventTime>2016-04-25T17:10:18Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
        <epc>urn:epc:id:sgtin:030001.0012345.111</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>
```

```xml
                </bizLocation>
            </AggregationEvent>
            <!-- E3: Shipping event (case SNs 123)-->
            <ObjectEvent>
                <eventTime>2016-04-27T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
                </readPoint>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.11.2 Sample XML: Buyer Receives Product

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-2-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-2: QUANTITY INFERENCE (CONCEALED SHORTAGE) -->
<!-- Buyer Receives-1st: Step S5: Buyer receives SN 123.
                                  Step S6: there are only eleven SNs inside.  Case SN 123 is
physically missing lowest saleable unit SN 111. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
```

```xml
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100420011</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:30:16Z</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
```

```xml
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer -->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
 </extension>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E4: Receiving (case SN 123) -->
    <ObjectEvent>
      <eventTime>2016-04-28T17:10:14Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:030001.1012345.123</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:039999.999999.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:039999.999999.0</id>
      </bizLocation>
      <bizTransactionList>
        <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
      </bizTransactionList>
      <extension>
        <sourceList>
          <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
        </sourceList>
        <destinationList>
          <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
        </destinationList>
      </extension>
    </ObjectEvent>
    <!-- E5: Unpacking (case SN 123) -->
    <!-- there are only eleven SNs inside.  Case SN 123 is physically missing lowest
saleable unit SN 111.-->
    <AggregationEvent>
```

```xml
            <eventTime>2016-04-28T17:20:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.11.3 Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-2-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-2B: QUANTITY INFERENCE (CONCEALED SHORTAGE) -->
<!-- Seller Exchange2:
     Step S8: Seller investigates SN 111, the missing serialized lowest saleable unit, which
should have been packed inside case SN 123 and shipped to the buyer.
     As a resolution, the seller voids the previous shipping event for lowest saleable unit SN
111.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:10:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
              <sbdh:Standard>EPCglobal</sbdh:Standard>
```

Applying GS1 Standards for DSCSA and Traceability:
Diagrams and XML Examples for Serialized Exceptions Processing

```xml
            <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
            <sbdh:InstanceIdentifier>1100420012</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2016-04-29T17:10:16Z</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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer -->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
```

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```xml
                </EPCISMasterData>
            </extension>
            <gs1ushc:dscsaTransactionStatement>
                <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
                <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
            </gs1ushc:dscsaTransactionStatement>
        </EPCISHeader>
        <EPCISBody>
            <EventList>
                <!-- E6: voidShipping (lowest saleable unit SN 111) -->
                <ObjectEvent>
                    <eventTime>2016-04-29T17:10:14Z</eventTime>
                    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                    <epcList>
                        <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
                    </epcList>
                    <action>OBSERVE</action>
                    <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
                    <bizTransactionList>
                        <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                        <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                    </bizTransactionList>
                    <extension>
                        <sourceList>
                            <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                        </sourceList>
                        <destinationList>
                            <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                        </destinationList>
                    </extension>
                </ObjectEvent>
            </EventList>
        </EPCISBody>
</epcis:EPCISDocument>
```

6.12 Exception 2-3: Undelivered or lost shipment

6.12.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-2-3-SellerExchange1.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-3: UNDELIVERED OR LOST SHIPMENT (TRACEABILITY DATA TRANSMITTED WITHOUT PHYSICAL
PRODUCT ARRIVING) -->
<!-- Seller Exchange1: Step S3:  Seller ships one case. Physical shipment contains SN 123.
Seller's IT system records the Shipping event for SN 123.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100420013</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:10:16Z</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">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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.*">
```

```xml
                        <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit SNs) -->
        <ObjectEvent>
```

```xml
        <eventTime>2016-04-25T17:10:16Z</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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
            </ilmd>
        </extension>
    </ObjectEvent>
    <!-- E2: Packing event (for case SN 123) -->
    <AggregationEvent>
        <eventTime>2016-04-25T17:10:18Z</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>
        </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: Shipping event (case SNs 123)-->
    <ObjectEvent>
        <eventTime>2016-04-28T17:10:14Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
        </readPoint>
        <bizTransactionList>
            <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
```

```xml
            <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.12.2 Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-2-3-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 2-3: UNDELIVERED OR LOST SHIPMENT (TRACEABILITY DATA TRANSMITTED WITHOUT PHYSICAL
PRODUCT ARRIVING) -->
<!-- Seller Exchange2:
     Step S7: Upon investigating the reported missing shipment, the seller determines that a
delivery problem occurred.
     Seller voids the previously recorded shipping event for SN 123.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:10:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100420014</sbdh:InstanceIdentifier>
              <sbdh:Type>Events</sbdh:Type>
              <sbdh:CreationDateAndTime>2016-04-29T17:10:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
      <extension>
          <EPCISMasterData>
              <VocabularyList>
                  <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                      <VocabularyElementList>
                          <!-- master data for case -->
```

```xml
                    <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
  </extension>
  <gs1ushc:dscsaTransactionStatement>
      <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
      <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
  </gs1ushc:dscsaTransactionStatement>
 </EPCISHeader>
 <EPCISBody>
   <EventList>
     <!-- E4: voidShipping (case SN 123) -->
     <ObjectEvent>
```

```xml
            <eventTime>2016-04-29T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.13 Exception 3-1A: Damaged product discovered at receiving – Buyer returns product to Seller

Note: In this scenario, the Buyer returns the damaged product to the Seller. While the outcome of the two damaged product scenarios varies, the return process variation is not modeled in the sample XML because this guideline focuses on DSCSA related exchanges only.

6.13.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-3-1A-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 3-1A: DAMAGED SHIPMENT (RETURN PRODUCT TO SELLER) -->
<!-- Seller Exchange1: Step S3:  Seller ships one physical case, SN 123. Seller's IT system
records the Shipping event for SN 123.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100520010</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                    <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">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                <!-- Seller -->
                <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">1295 S George
Ave</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer -->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
 </extension>
 <gs1ushc:dscsaTransactionStatement>
     <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
     <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
 </gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
```

```xml
<EPCISBody>
    <EventList>
        <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
        <ObjectEvent>
            <eventTime>2016-04-25T17:10:16Z</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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-04-25T17:10:18Z</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>
            </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: Shipping event (case SNs 123)-->
        <ObjectEvent>
            <eventTime>2016-04-28T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
```

```
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.13.2 Sample XML: Buyer Receives Product

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-3-1A-BuyerReceives-1st.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 3-1A: DAMAGED SHIPMENT (RETURN PRODUCT TO SELLER) -->
<!-- Buyer Receives-1st: Step S5: Buyer detects that physical case SN 123 arrives damaged.
Buyer receives SN 123 with a disposition of damaged. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:30:16Z">
    <EPCISHeader>
      <sbdh:StandardBusinessDocumentHeader>
          <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
          <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
          </sbdh:Sender>
          <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
          </sbdh:Receiver>
          <sbdh:DocumentIdentification>
              <sbdh:Standard>EPCglobal</sbdh:Standard>
              <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
              <sbdh:InstanceIdentifier>1100520011</sbdh:InstanceIdentifier>
              <sbdh:Type>Events</sbdh:Type>
              <sbdh:CreationDateAndTime>2016-04-29T17:30:16Z</sbdh:CreationDateAndTime>
          </sbdh:DocumentIdentification>
      </sbdh:StandardBusinessDocumentHeader>
      <extension>
          <EPCISMasterData>
              <VocabularyList>
                  <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                      <VocabularyElementList>
                          <!-- master data for case -->
```

```xml
<VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
    <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
    <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room 378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E4: Receiving (case SN 123) with disposition = damaged -->
        <ObjectEvent>
            <eventTime>2016-04-29T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            </epcList>
```

```xml
                <action>OBSERVE</action>
                <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
                <disposition>urn:epcglobal:cbv:disp:damaged</disposition>
                <readPoint>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.14   Exception 3-1B: Damaged product discovered at receiving – Seller authorizes Buyer to destroy product

6.14.1   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 -> Buyer in the damaged product discovered at receiving (Buyer returns product to Seller)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-3-1B-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 3-1B: DAMAGED SHIPMENT (RARE CASE: PRODUCT IS DESTROYED BY BUYER) -->
<!-- Seller Exchange1: Step S3:  Seller ships one physical case, SN 123. Seller's IT system
records the Shipping event for SN 123.
-->
<!-- Note: 3-1B SellerExchange1 is identical in content to 3-1A SellerExchange1 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100520010</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                            <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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                            </VocabularyElement>
                            <!-- Buyer -->
                            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                        </VocabularyElementList>
                    </Vocabulary>
                </VocabularyList>
            </EPCISMasterData>
        </extension>
        <gs1ushc:dscsaTransactionStatement>
            <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
            <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
```

```xml
            </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
            <ObjectEvent>
                <eventTime>2016-04-25T17:10:16Z</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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
                    </ilmd>
                </extension>
            </ObjectEvent>
            <!-- E2: Packing event (for case SN 123) -->
            <AggregationEvent>
                <eventTime>2016-04-25T17:10:18Z</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>
                </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: Shipping event (case SNs 123)-->
            <ObjectEvent>
                <eventTime>2016-04-28T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                </epcList>
                <action>OBSERVE</action>
                <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
                <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
```

```xml
                <readPoint>
                    <id>urn:epc:id:sgln:030001.111111.0</id>
                </readPoint>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.14.2 Sample XML: Buyer Receives Product

> ✅ **Note**: The message content of *Buyer Receives Product* in this example is identical to the content of the *Buyer Receives Product in the damaged product discovered at receiving (Buyer returns product to Seller)* example.

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-3-1B-BuyerReceives-1st.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 3-1B: DAMAGED SHIPMENT (RARE CASE: PRODUCT IS DESTROYED BY BUYER) -->
<!-- Buyer Receives-1st: Step S5: Buyer detects that physical case SN 123 arrives damaged.
Buyer receives SN 123 with a disposition of damaged. -->
<!-- Note: 3-1B Receives-1st is identical in content to 3-1A Receives-1st -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100520011</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-29T17:30:16Z</sbdh:CreationDateAndTime>
```

```xml
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <!-- master data for case -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                            </VocabularyElement>
                            <!-- Buyer -->
                            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                        </VocabularyElementList>
                    </Vocabulary>
                </VocabularyList>
            </EPCISMasterData>
        </extension>
    </EPCISHeader>
    <EPCISBody>
```

```xml
        <EventList>
            <!-- E4: Receiving (case SN 123) with disposition = damaged -->
            <ObjectEvent>
                <eventTime>2016-04-29T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                </epcList>
                <action>OBSERVE</action>
                <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
                <disposition>urn:epcglobal:cbv:disp:damaged</disposition>
                <readPoint>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:039999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.14.3 Sample XML: Buyer Destroys Product

Reference File: <u>https://resources.gs1us.org/Portals/0/xml/Scenario-3-1B-BuyerDestroys.xml</u>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 3-1B: DAMAGED SHIPMENT (RARE CASE: PRODUCT IS DESTROYED BY BUYER) -->
<!-- Buyer Destroys: Step S9: Buyer sends damaged case SN 123 for destruction. -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-30T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
```

```xml
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100520012</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-30T17:30:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <!-- master data for case -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                            </VocabularyElement>
                            <!-- Buyer -->
                            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
```

```xml
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <!-- E5: Destroying (case SN 123) -->
        <ObjectEvent>
            <eventTime>2016-04-30T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            </epcList>
            <action>DELETE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
            <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </readPoint>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

6.15 Exception 4-1: Product inference problem

6.15.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-1-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-1: PRODUCT INFERENCE PROBLEM  -->
<!-- This exception covers 2 incidences: product no data(SN 113) and data no product (SN111)) -->
<!-- Seller Exchange1: S3: Seller physically ships one homogeneous case thinking there are
twelve serialized lowest saleable units in the case. Physical shipment has SN 123. Seller's IT
system reflects there are 12 serialized lowest saleable units in SN 123.   In reality, while
there are 12 lowest saleable units inside the case, there's an extra lowest saleable unit SN
113 without traceability data and lowest saleable unit SN 111 is physically missing.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-27T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100620010</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-27T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                        <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">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
```

```xml
<EPCISBody>
    <EventList>
        <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
        <ObjectEvent>
            <eventTime>2016-03-25T17:10:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
                <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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-03-25T17:10:18Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
            </childEPCs>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
```

```xml
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- E3: Shipping event (case SN 123)-->
        <ObjectEvent>
            <eventTime>2016-03-27T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.15.2 Sample XML: Buyer Receives Product

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-1-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-1: PRODUCT INFERENCE PROBLEM  -->
<!-- Buyer Receives-1st: Step S5: Buyer receives SN 123.
                                  Step S6: Buyer opens up case SN 123 and detects two
problems in the shipment:
                                          While there are 12 lowest saleable units
inside the case, there's an extra lowest saleable unit SN 113
                                          and a missing lowest saleable unit SN 111.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-28T17:30:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:039999.111111.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100620011</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-28T17:30:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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.*">
```

```xml
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
  </extension>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <!-- E4: Receiving (case SN 123) -->
    <ObjectEvent>
        <eventTime>2016-03-28T17:10:14Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
            <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        </epcList>
        <action>OBSERVE</action>
```

```xml
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
        <!-- E5: Unpacking (case SN 123) -->
        <!-- Buyer discovers lowest saleable unit, SN 111, is missing -->
        <AggregationEvent>
            <eventTime>2016-03-28T17:20:16Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sgtin:030001.1012345.123</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:030001.0012345.100</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.101</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.102</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.103</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.104</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.105</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.106</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.107</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.108</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.109</epc>
                <epc>urn:epc:id:sgtin:030001.0012345.110</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:039999.999999.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:039999.999999.0</id>
            </bizLocation>
        </AggregationEvent>
      </EventList>
   </EPCISBody>
</epcis:EPCISDocument>
```

6.15.3 Sample XML: Exchange2 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-1-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- SCENARIO 4-1: PRODUCT INFERENCE PROBLEM  -->
<!-- Seller Exchange2: Step S9:  Seller investigates the dual issue of missing SN 111 and extra
SN 113.
                                            The seller rectifies the missing lowest
saleable unit, SN 111, by voiding the previously recorded shipment for SN 111.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-03-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100620012</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-03-29T17:10:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.0012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
```

```xml
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer -->
                    <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
    <gs1ushc:dscsaTransactionStatement>
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
    </gs1ushc:dscsaTransactionStatement>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
        <!-- E6: voidShipping (Lowest saleable unit SN 111) -->
        <ObjectEvent>
            <eventTime>2016-03-29T17:10:10Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.0012345.111</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
```

```xml
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.16 Exception 4-2A - Shipment for Buyer Y arrives at Buyer X who is not a customer of Seller, Buyer X refuses to receive product from carrier

6.16.1 Sample XML: Exchange1 - Seller -> Buyer

Reference File: <u>https://resources.gs1us.org/Portals/0/xml/Scenario-4-2A-SellerExchange1.xml</u>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2A: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X"
     (BUYER X IS NOT A CUSTOMER OF SELLER, BUYER REFUSES TO RECEIVE PRODUCT FROM CARRIER) -->
<!-- Seller Exchange1: Step S3:  Seller mistakenly ships one case to Buyer X's DC. Physical
shipment has SN 123.
     While the physical products go to Buyer X's distribution center, the Seller's system
records that the Sold-To and Ship-To entities
     in the Shipping Event are respectively, Y and Y's DC.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100620013</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
```

```xml
                    <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">00001012345</attribute>
                    <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                <!-- Seller -->
                <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">1295 S George
Ave</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                </VocabularyElement>
                <!-- Buyer Y-->
                <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                    <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
            </VocabularyElementList>
        </Vocabulary>
      </VocabularyList>
    </EPCISMasterData>
  </extension>
  <gs1ushc:dscsaTransactionStatement>
      <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
      <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
  </gs1ushc:dscsaTransactionStatement>
</EPCISHeader>
```

```xml
<EPCISBody>
    <EventList>
        <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
        <ObjectEvent>
            <eventTime>2016-04-25T17:10:16Z</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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-04-25T17:10:18Z</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>
            </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: Shipping (case SN 123) with Sold-To as Buyer Y -->
        <ObjectEvent>
            <eventTime>2016-04-28T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
```

```xml
                </readPoint>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <!-- Sold-To is specified as Buyer Y -->
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.16.2 Sample XML: Exchange2 - Seller -> Buyer

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-4-2A-SellerExchange2.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2A: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X"
    (BUYER X IS NOT A CUSTOMER OF SELLER, BUYER REFUSES TO RECEIVE PRODUCT FROM CARRIER) -->
<!-- Seller Exchange2: Step S6:  Upon investigating the discrepancy in the shipping event, the
seller determines SN 123 is legitimate but the shipment intended for Buyer Y was incorrectly
delivered to Buyer X.  The Seller voids the previously recorded Shipping event for Buyer Y.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100620014</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-29T17:10:16Z</sbdh:CreationDateAndTime>
            </sbdh:DocumentIdentification>
        </sbdh:StandardBusinessDocumentHeader>
        <extension>
            <EPCISMasterData>
```

```xml
                <VocabularyList>
                    <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                        <VocabularyElementList>
                            <!-- master data for case -->
                            <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                            <!-- Seller -->
                            <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">1295 S George
Ave</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                            </VocabularyElement>
                            <!-- Buyer Y-->
                            <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                                <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                        </VocabularyElementList>
                    </Vocabulary>
                </VocabularyList>
            </EPCISMasterData>
        </extension>
        <gs1ushc:dscsaTransactionStatement>
            <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
            <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
        </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
```

```xml
<EPCISBody>
    <EventList>
        <!-- E4: voidShipping (case SN 123) with Sold-To as Y -->
        <ObjectEvent>
            <eventTime>2016-04-29T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <!-- Sold-To is specified as Buyer Y -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

6.17 Exception 4-2B: Shipment for Buyer Y arrives at Buyer X -- Buyer Y refutes invoice, Seller voids shipment

6.17.1 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 -> Buyer in the Shipment for Buyer Y arrives at Buyer X (non-customer Buyer X refuses product)* example.

Reference File: *https://resources.gs1us.org/Portals/0/xml/Scenario-4-2B-SellerExchange1.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2B: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X"
     (BUYER Y REFUTES INVOICE, SELLER VOIDS SHIPMENT) -->
<!-- Seller Exchange1: Step S3:  Seller mistakenly ships one case to Buyer X's DC. Physical
shipment has SN 123.
      While the physical products go to Buyer X's distribution center, the Seller's system
records that the Sold-To and Ship-To entities
      in the Shipping Event are respectively, Y and Y's DC.
-->
<!-- Note: 4-2B SellerExchange1 is identical in content to 4-2A SellerExchange1 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">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>1100620013</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```xml
					<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">00001012345</attribute>
						<attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
					<!-- Seller -->
					<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">1295 S George
Ave</attribute>
						<attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
						<attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
						<attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
						<attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
						<attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
					</VocabularyElement>
					<!-- Buyer Y-->
					<VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
						<attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
				</VocabularyElementList>
			</Vocabulary>
		</VocabularyList>
	</EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
```

```xml
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
      </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
  </EPCISBody>
    <EventList>
      <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
      <ObjectEvent>
        <eventTime>2016-04-25T17:10:16Z</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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
          </ilmd>
        </extension>
      </ObjectEvent>
      <!-- E2: Packing event (for case SN 123) -->
      <AggregationEvent>
        <eventTime>2016-04-25T17:10:18Z</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>
        </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: Shipping (case SN 123) with Sold-To as Buyer Y -->
      <ObjectEvent>
        <eventTime>2016-04-28T17:10:14Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
        </epcList>
```

```xml
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <!-- Sold-To is specified as Buyer Y -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
      </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.17.2 Sample XML: Exchange2 - Seller -> Buyer

✅ **Note**: The message content of *Exchange2 of Seller -> Buyer* in this example is identical to the content of the *Exchange2 of Seller -> Buyer in the shipment for Buyer Y arrives at Buyer X (non-customer Buyer X refuses product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-2B-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2B: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X"
     (BUYER Y REFUTES INVOICE, SELLER VOIDS SHIPMENT) -->
<!-- Seller Exchange2: Step S7:  Upon investigating the discrepancy in the shipping event, the
seller determines Buyer Y's order was processed incorrectly and shipment intended for Buyer Y
was incorrectly delivered to Buyer X.
Step S8: The Seller voids the previously recorded Shipping event for Buyer Y.
-->
<!-- Note: 4-2B SellerExchange2 is identical in content to 4-2A SellerExchange2 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
```

```xml
            <sbdh:Identifier
Authority="SGLN">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>1100620014</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2016-04-29T17:10:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
        <EPCISMasterData>
            <VocabularyList>
                <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                    <VocabularyElementList>
                        <!-- master data for case -->
                        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer Y-->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
```

```xml
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E4: voidShipping (case SN 123) with Sold-To as Y -->
            <ObjectEvent>
                <eventTime>2016-04-29T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                </epcList>
                <action>OBSERVE</action>
                <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <!-- Sold-To is specified as Buyer Y -->
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.18 Exception 4-2C: Shipment for Buyer Y arrives at Buyer X who is also a customer of Seller, Buyer keeps product

6.18.1 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 -> Buyer in the shipment for Buyer Y arrives at Buyer X (non-customer Buyer X refuses product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-2C-SellerExchange1.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2C: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X" (BUYER X IS A CUSTOMER OF
SELLER, BUYER KEEPS PRODUCT) -->
<!-- Seller Exchange1: Step S3:  Seller mistakenly ships one case to Buyer X's DC. Physical
shipment has SN 123.
     While the physical products go to Buyer X's distribution center, the Seller's system
records that the Sold-To and Ship-To entities
     in the Shipping Event are respectively, Y and Y's DC.
-->
<!-- Note: 4-2C SellerExchange1 is identical in content to 4-2A SellerExchange1 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-28T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">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>1100620013</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-28T17:10:16Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#regulatedProductName">Epcistra</attribute>
```

```xml
                        <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">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer Y-->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gs1ushc:dscsaTransactionStatement>
```

```xml
            <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
            <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
        </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E1: Commissioning events (case SNs 123 including relevant lowest saleable unit
SNs) -->
            <ObjectEvent>
                <eventTime>2016-04-25T17:10:16Z</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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
                    </ilmd>
                </extension>
            </ObjectEvent>
            <!-- E2: Packing event (for case SN 123) -->
            <AggregationEvent>
                <eventTime>2016-04-25T17:10:18Z</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>
                </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: Shipping (case SN 123) with Sold-To as Buyer Y -->
            <ObjectEvent>
                <eventTime>2016-04-28T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                </epcList>
```

```xml
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:039999999991:XYZ567</bizTransaction>
            </bizTransactionList>
            <extension>
                <sourceList>
                    <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                </sourceList>
                <!-- Sold-To is specified as Buyer Y -->
                <destinationList>
                    <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                </destinationList>
            </extension>
        </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

6.18.2 Sample XML: Exchange2 - Seller -> Buyer

Note: The message content of *Exchange2 of Seller -> Buyer* in this example is identical to the content of the *Exchange2 of Seller -> Buyer in the shipment for Buyer Y arrives at Buyer X (non-customer Buyer X refuses product)* example.

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-2C-SellerExchange2.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2C: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X" (BUYER X IS A CUSTOMER OF
SELLER, BUYER KEEPS PRODUCT) -->
<!-- Seller Exchange2: Step S7:  Upon investigating the discrepancy in the shipping event, the
seller determines Buyer Y's order was processed incorrectly and shipment intended for Buyer Y
was incorrectly delivered to Buyer X.
Step S7: Upon investigating the discrepancy in the shipping event, the seller determines SN 123
is legitimate and the shipment intended for Buyer Y was incorrectly delivered to Buyer X..  The
Seller voids the previous Shipping event with Sold-To and Ship-To values incorrectly reflecting
Buyer Y.
-->
<!-- Note: 4-2C SellerExchange2 is identical in content to 4-2A SellerExchange2 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-29T17:10:16Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
```

```xml
        </sbdh:Sender>
        <sbdh:Receiver>
            <sbdh:Identifier
Authority="SGLN">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>1100620014</sbdh:InstanceIdentifier>
            <sbdh:Type>Events</sbdh:Type>
            <sbdh:CreationDateAndTime>2016-04-29T17:10:16Z</sbdh:CreationDateAndTime>
        </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
        <EPCISMasterData>
            <VocabularyList>
                <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
                    <VocabularyElementList>
                        <!-- master data for case -->
                        <VocabularyElement id="urn:epc:idpat:sgtin:030001.1012345.*">
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00001012345</attribute>
                            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                        <!-- Seller -->
                        <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">1295 S George
Ave</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                        <!-- Buyer Y-->
                        <VocabularyElement id="urn:epc:id:sgln:039999.999999.0">
                            <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro
LLC</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>
```

```xml
                            <attribute id="urn:epcglobal:cbv:mda#postalCode">10003-
1502</attribute>
                            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                        </VocabularyElement>
                    </VocabularyElementList>
                </Vocabulary>
            </VocabularyList>
        </EPCISMasterData>
    </extension>
    <gs1ushc:dscsaTransactionStatement>
        <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
        <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
    </gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E4: voidShipping (case SN 123) with Sold-To as Y -->
            <ObjectEvent>
                <eventTime>2016-04-29T17:10:14Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</epc>
                </epcList>
                <action>OBSERVE</action>
                <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</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>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:A123</bizTransaction>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:XYZ567</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <!-- Sold-To is specified as Buyer Y -->
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:039999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.18.3 Sample XML: Exchange3 - Seller -> Buyer

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-2C-SellerExchange3.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2C: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X" (BUYER X IS A CUSTOMER OF
SELLER, BUYER KEEPS PRODUCT) -->
<!-- Seller Exchange3: Step S8:  Seller enters an order for Buyer X and creates a shipping
event with Buyer X as Sold-To and Ship-To reflecting the prior physical shipment.
-->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-04-30T17:10:26Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:030001.111111.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
              <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:069999.999999.0</sbdh:Identifier>
            </sbdh:Receiver>
            <sbdh:DocumentIdentification>
                <sbdh:Standard>EPCglobal</sbdh:Standard>
                <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
                <sbdh:InstanceIdentifier>1100620020</sbdh:InstanceIdentifier>
                <sbdh:Type>Events</sbdh:Type>
                <sbdh:CreationDateAndTime>2016-04-30T17:10:26Z</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">00001012345</attribute>
                                <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
```

```xml
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer X -->
                    <VocabularyElement id="urn:epc:id:sgln:069999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Wholesaler XYZ
LLC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">430 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>
                </VocabularyElementList>
            </Vocabulary>
        </VocabularyList>
    </EPCISMasterData>
</extension>
<gs1ushc:dscsaTransactionStatement>
    <gs1ushc:affirmTransactionStatement>true</gs1ushc:affirmTransactionStatement>
    <gs1ushc:legalNotice>Seller has complied with each applicable subsection of FDCA Sec.
581(27)(A)-(G).</gs1ushc:legalNotice>
</gs1ushc:dscsaTransactionStatement>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E1: Commissioning (case SN 123 including relevant lowest saleable unit SNs) -->
            <ObjectEvent>
                <eventTime>2016-04-25T17:10:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
```

```xml
                <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:030001.1012345.123</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>2019-03-31</cbvmda:itemExpirationDate>
                </ilmd>
            </extension>
        </ObjectEvent>
        <!-- E2: Packing event (for case SN 123) -->
        <AggregationEvent>
            <eventTime>2016-04-25T17:10:18Z</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>
            </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>
        <!-- E5: Shipping (case SN 123) with Sold-To as X -->
        <ObjectEvent>
            <!-- Since case SN 123 was already physically shipped,
                    the shipping event date/time needs to reflect the physical shipping
date/time -->
            <eventTime>2016-04-28T17:10:14Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:030001.1012345.123</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:030001.111111.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:Z123</bizTransaction>
                <!-- Identifies Buyer X as Sold-To party in the bizTransaction PO document -->
```

```xml
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0699999999992:XXX123</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <!-- Sold-To is set to Buyer X -->
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:069999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
        </EventList>
    </EPCISBody>
</epcis:EPCISDocument>
```

6.18.4 Sample XML: Buyer Receives Product

Reference File: https://resources.gs1us.org/Portals/0/xml/Scenario-4-2C-BuyerReceives-1st.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Scenario 4-2C: SHIPMENT FOR BUYER "Y", ARRIVES AT BUYER "X" (BUYER X IS A CUSTOMER OF
SELLER, BUYER KEEPS PRODUCT) -->
<!-- Step S9: Buyer X now receives case SN 123 -->
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:gs1ushc="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="2016-05-01T17:10:26Z">
    <EPCISHeader>
        <sbdh:StandardBusinessDocumentHeader>
            <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
            <sbdh:Sender>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:069999.999999.0</sbdh:Identifier>
            </sbdh:Sender>
            <sbdh:Receiver>
                <sbdh:Identifier
Authority="SGLN">urn:epc:id:sgln:069999.999998.0</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>2016-05-01T17:10:26Z</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">00001012345</attribute>
```

```xml
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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">00001012345</attribute>
                        <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</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>
                    <!-- Seller -->
                    <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">1295 S George
Ave</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Room
378</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#city">Washington</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#state">DC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#postalCode">12345-
6789</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
                    </VocabularyElement>
                    <!-- Buyer X -->
                    <VocabularyElement id="urn:epc:id:sgln:069999.999999.0">
                        <attribute id="urn:epcglobal:cbv:mda#name">GS1 Drug Distro-XYZ
LLC</attribute>
                        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">430 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>
                </VocabularyElementList>
            </Vocabulary>
```

```xml
                </VocabularyList>
            </EPCISMasterData>
        </extension>
    </EPCISHeader>
    <EPCISBody>
        <EventList>
            <!-- E6: Receiving (case SN 123) -->
            <ObjectEvent>
                <eventTime>2016-05-01T17:10:16Z</eventTime>
                <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
                <epcList>
                    <epc>urn:epc:id:sgtin:030001.1012345.123</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:069999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:069999.999999.0</id>
                </bizLocation>
                <bizTransactionList>
                    <bizTransaction
type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0300011111116:Z123</bizTransaction>
                        <!-- Identifies Buyer X as Sold-To party in the bizTransaction PO document -->
                    <bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0699999999992:XXX123</bizTransaction>
                </bizTransactionList>
                <extension>
                    <sourceList>
                        <source
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:030001.111111.0</source>
                    </sourceList>
                    <!-- Sold-To is set to Buyer X -->
                    <destinationList>
                        <destination
type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:069999.999999.0</destination>
                    </destinationList>
                </extension>
            </ObjectEvent>
            <!-- [Situational: when cases are opened]  E7: Unpacking (case SN 123) -->
            <AggregationEvent>
                <eventTime>2016-05-01T17:10:17Z</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>
                </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:069999.999999.0</id>
                </readPoint>
                <bizLocation>
                    <id>urn:epc:id:sgln:069999.999999.0</id>
                </bizLocation>
            </AggregationEvent>
```

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

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