

---

# AmerisourceBergen Serialized Data Exchange

## Process and Requirements

### Contents

<b>I. Introduction.....</b>	<b>2</b>
1.0 Purpose and Scope .....	2
2.0 Roles and Responsibilities .....	2
3.0 References.....	2
<b>II. Process and Requirements.....</b>	<b>4</b>
4.0 Process for On-boarding .....	4
5.0 Requirements.....	6
<b>III. Appendix .....</b>	<b>9</b>
6.0 EPCIS Data Elements .....	9
7.0 EPCIS 1.1 Event Examples.....	19
8.0 EPCIS 1.2 Event Examples.....	24
9.0 Product Information Template .....	33
10.0 Location Information Template .....	34

### Version Notes:

Version 1.0 – June 1<sup>st</sup> 2017 - Initial Publication.

Version 1.1 – June 24<sup>th</sup> 2017 – Updated examples to use ABC identifiers and clarified required events and master data.

Version 1.2 – September 15<sup>th</sup> 2017 – Added decommissioning requirement.

Version 1.3 – January 25<sup>th</sup> 2018 – Updated Shipping Event and PO requirements

For all related questions and interest in setting up serialized data exchange, please contact:

[securesupplychain@amerisourcebergen.com](mailto:securesupplychain@amerisourcebergen.com)

## I. INTRODUCTION

### 1.0 PURPOSE AND SCOPE

The purpose of this document is to define the process and requirements for establishing inbound serialized data exchange, via EPCIS, with AmerisourceBergen and all of its business units.

#### 1.1 This procedure covers the following data exchange scenarios:

- Contract Manufacturers & Packagers – CMO/CPOs packaging on behalf of AmerisourceBergen businesses, required to exchange data to meet the 2017/2018 deadline.
- Saleable Returns – Manufacturers looking to test and exchange data serial number data in order to support AmerisourceBergen’s 2019 saleable returns requirements.
- TI, TS Exchange – Manufacturers looking to test and exchange unit or lot level serialized Transaction Information and Transaction Statement information.
- Pilot Testing – Any trading partner wanting to test and pilot in preparation for any of the above scenarios.

#### 1.2 This procedure covers all AmerisourceBergen business units, including:

- Distribution Services Drug Distribution
- American Health Packaging
- BluePoint Laboratories
- US Bioservices
- Animal Health VetOne

### 2.0 ROLES AND RESPONSIBILITIES

Below are the roles and responsibilities referenced throughout this document.

Role	Responsibility
AmerisourceBergen Secure Supply Chain Operations Team	Manages the initial engagement, planning and tracking of all on-boarding activities. Once on-boarded to production, SSC Ops monitors all the inbound EPCIS transactions.
SAP Information Collaboration Hub On-boarding Team	B2B solution provider that engages with each manufacturer data exchange teams to establish connections to the SAP Information Collaboration Hub.
AmerisourceBergen Data Exchange Team	Technical team that manages any technical exchange issues between ABC, SAP Information Collaboration Hub, and the Manufacturer Data Exchange Team.
Manufacturing Data Exchange Team	Manufacturer team responsible for working with SAP and ABC to establish connection, successful data transmission, and processing.

### 3.0 REFERENCES

**3.1 Standards:**

3.1.1 GS1 US DSCSA Implementation Guide, v1.2:

<HTTPS://WWW.GS1US.ORG/INDUSTRIES/HEALTHCARE/STANDARDS-IN-USE/DSCSA/IMPLEMENTATION-GUIDELINE>

3.1.2 GS1 Core Business Vocabulary (CBV): <HTTP://WWW.GS1.ORG/EPCIS>

**3.2 Laws**

3.2.1 Title II of the Drug Quality and Security Act referred to as the Drug Supply Chain Security Act (DSCSA)

**3.3 References**

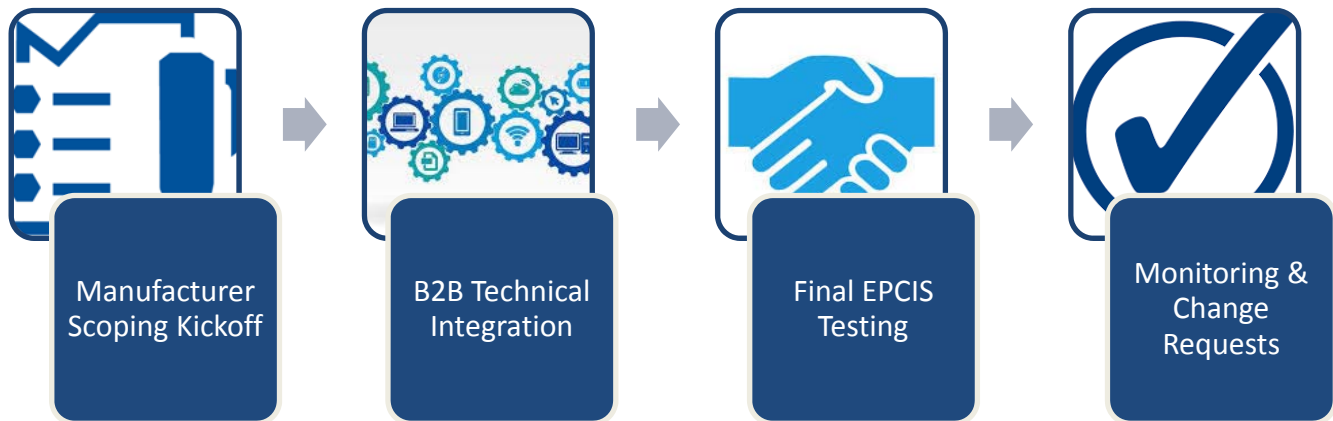
3.3.1 HDA Guidelines for Bar Coding in the Pharmaceutical Supply Chain

3.3.2 AmerisourceBergen Address, GLN and SGLN list:

<HTTP://PUBLISH.SMARTSHEET.COM/BEA3B5E2E4D348328730EA21B552A24E>

## II. PROCESS AND REQUIREMENTS

### 4.0 PROCESS FOR ON-BOARDING



#### 4.1 Manufacturing Scoping and Kickoff

- 4.1.1 AmerisourceBergen Secure Supply Chain team will work with each manufacturer, one on one, to understand their strategy for serialized data exchange and timing associated with that strategy.
- 4.1.2 For those manufacturers interested in doing data exchange testing, the AmerisourceBergen Secure Supply Chain Team will collect and track:
- Business & technical contacts (email, phone), 3rd party solution provider, estimated timing to test connectivity, estimated timing to do a file exchange test, and estimated timing for production cutover.
  - Required master data (GLNs, and GTINs); see appendix 9.0 and 10.0 for templates.
  - Sample EPCIS file to manually review for EPCIS compliance.
- 4.1.3 Once all the required data is collected, the Secure Supply Chain operations analyst will initiate the technical integration process with AmerisourceBergen's data exchange team and SAP Information Collaboration Hub services team.

#### 4.2 B2B Technical Integration

- 4.2.1 For testing and data integrity purposes, ABC recommends that suppliers have one test/staging environment and one production environment be connected to SAP Information Collaboration Hub.
- 4.2.2 SAP Information Collaboration Hub shall kickoff the on-boarding effort with the identified trading partner technical contacts and ABC's Data Exchange Team. Further process and technical requirements, such as approved certificates, will be communicated once confirmed that the manufacturer is ready for data exchange.

### 4.3 Final EPCIS Testing

- 4.3.1 Once connectivity is established with SAP Information Collaboration Hub, AmerisourceBergen requires that a test file be sent and verified in our ATTP staging environment prior to cutover to production.
- 4.3.2 SSC operations will work with the manufacturer to resolve any issues found with the EPCIS file, data content and/or format.
- 4.3.3 Once a file is successfully tested, SSC operations will coordinate with the manufacturer on the date to start sending data to ABC's production EPCIS repository.
- 4.3.4 The first production purchase order will be closely monitored and reviewed to ensure onboarding is successful and complete.

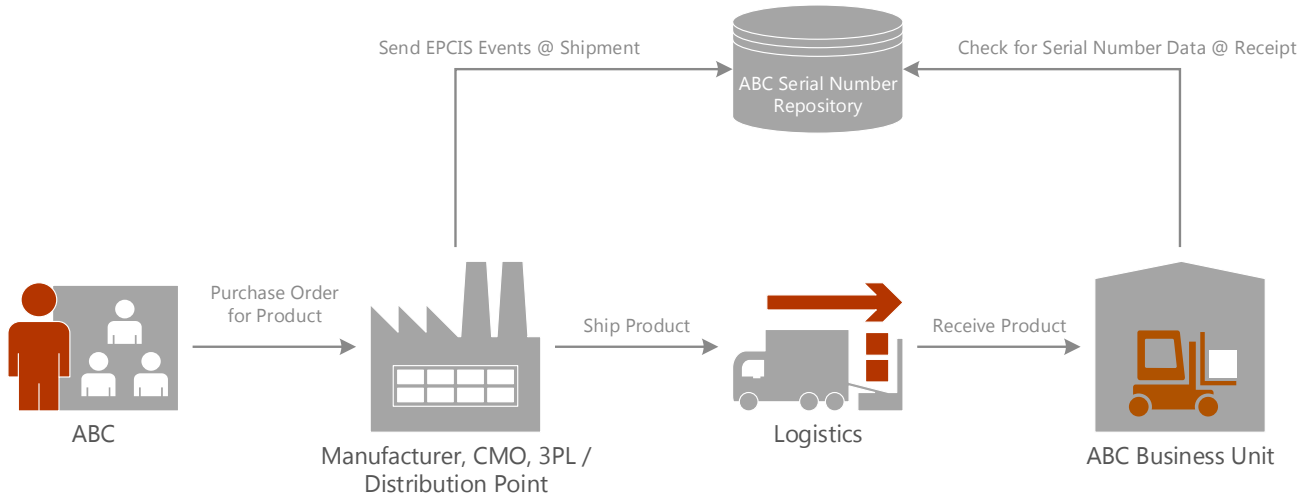
### 4.4 Post Deployment Monitoring

- 4.4.1 For those production deployments, ABC's SSC operations team will monitor daily receipt of EPCIS messages and work with each manufacturer on any issues that occur.

## 5.0 REQUIREMENTS

### 5.1 General Process Flow

This is meant to be a generic flow for product and serialized data.



### 5.2 General Requirements

- 5.2.1 All Serialized data shall be transmitted via GS1 EPCIS Messaging formats, complying with GS1 US HC guidelines. ASNs will not be supported for serialized information exchange.
- 5.2.2 AS2 or Web Services (SOAP) interfaces shall be used to interface to SAP Collaboration Information Exchange.
- 5.2.3 All serialized data shall be transmitted at, or shortly after the point of shipment from the manufacturer or contracted 3<sup>rd</sup> party logistics company.
- 5.2.4 It is recommended when sending multiple events, that all events come through in one file versus a separate file for each individual event type.

### 5.3 Data Required for Serialized Exchange

Data Requirements vary based off of the intent and purpose of data exchange. Refer to the introduction for definitions of all four scenarios.

#### 5.3.1 Accepted EPCIS Versions

The following version of EPCIS will be accepted for the indicated scenario:

Version	CMO/CPO	Saleable Returns	TI, TS Exchange	Pilot Testing
<b>EPCIS 1.0</b>	Accepted	Accepted	Not Accepted	Accepted
<b>EPCIS 1.1</b>	Accepted	Accepted	Not Accepted	Accepted
<b>EPCIS 1.2</b>	Accepted	Accepted	Accepted	Accepted

### 5.3.2 EPCIS Events

The following EPCIS events are required for each scenario:

Event	CMO/CPO	Saleable Returns	TI, TS Exchange	Pilot Testing
<b>Commissioning</b>	Required	Required	Required	Required
<b>Packing</b>	Required - If Aggregating	Required - If Aggregating	Required	Optional
<b>Shipping</b>	Recommended	Required	Required	Optional
<b>Decommissioning</b>	Required if Repackaging	N/A	N/A	N/A

### 5.3.3 Master Data Elements

The following elements of Master Data, contained in the EPICS, are required for each scenario:

Data	CMO/CPO	Saleable Returns	TI, TS Exchange	Pilot Testing
<b>Expire Date</b>	Required	Required	Required	Required
<b>Lot Number</b>	Required	Required	Required	Required
<b>DSCSA Product Master Data</b>	Optional	Optional	Required	Optional
<b>Purchase Order</b>	Recommended	Required	Required	Optional
<b>Source List (sold from)</b>	Recommended	Recommended	Required	Optional
<b>Source List (ship from)</b>	Recommended	Recommended	Required	Optional
<b>Destination List (sold from)</b>	Recommended	Recommended	Required	Optional
<b>Destination List (ship from)</b>	Recommended	Recommended	Required	Optional
<b>Transaction Statement</b>	Optional	Optional	Required	Optional
<b>Direct Purchase Statement</b>	Optional	Optional	Required <i>(exclusive distributor only)</i>	Optional

### 5.3.4 GLN Identifiers

These are the required SGLN identifiers to be used in specific events and transactions.

- EPCIS Header – It's required to use the ABC **ship-to** SGLN, in URN format, for the receiver SGLN, not the corporate identifier. This drives our reporting and data management process.

```
<sbdh:Sender>
  <sbdh:Identifier Authority="SGLN">urn:epc:id:sgln:030000.000000.0</sbdh:Identifier>
</sbdh:Sender>
<sbdh:Receiver>
  <sbdh:Identifier Authority="SGLN">urn:epc:id:sgln:0716163.01107.0</sbdh:Identifier>
</sbdh:Receiver>
```

- Shipping Master Data: Destination List – it's required to use the ABC **corporate** SGLN, in URN format, for the sold-to SGLN, not the actual physical ship-to location.

```
<destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0087701.00000.0</destination>
<destination type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0716163.01107.0</destination>
```

- Purchase Order – it's required to use the ABC **ship-to** GLN as the prefix when sending PO Number in the BizTransaction:

```
<bizTransaction
type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0716163011363:01045011</bizTransaction>
```

For a list of all AmerisourceBergen GLNs and sGLNs please visit:

<http://publish.smartsheet.com/bea3b5e2e4d348328730ea21b552a24e>

### 5.3.5 Decommissioning Events

For those doing contact packaging on behalf of American Health Packaging, a separate EPCIS file is required that contains the decommissioning events for those products that were consumed as part of the repackaging processes.



### III. APPENDIX

#### 6.0 EPCIS DATA ELEMENTS

Below are the key EPCIS events and data elements for, both version 1.1 and 1.2, and which ones are required and when. Please refer to the GS1 US Healthcare implementation guidelines for more information.

#### 6.1 Commissioning Events

##### 6.1.1 Standard Commissioning Event Elements

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>eventTime</b>	Timestamp	Timestamp of date/time when the event occurred. SHALL include a time zone indicator.	2013-10-01T22:08:02Z	Required	Required
<b>eventTimeZoneOffset</b>	String	Time zone offset where the event occurred	-04:00	Required	Required
<b>recordTime</b>	Timestamp	Date and time the event was recorded in an EPCIS repository.	2013-10-01T22:08:02Z	Optional	Optional
<b>epcList</b>	List of URI	EPC(s) of the commissioned item in EPC Pure Identity URI format. If more than one EPC is included, they should all have the same value for ILMID attributes defined below, or should all require these attributes to be omitted. EPCs having different values for these attributes should be shared in different Commissioning events.	N/A	Required	Required
<b>Action</b>	String	ADD	Same as Desc	Required	Required
<b>bizStep</b>	URI	urn:epcglobal:cbv:bizstep:commissioning	Same as Desc	Required	Required
<b>Disposition</b>	URI	urn:epcglobal:cbv:disp:active	Same as Desc	Required	Required
<b>readPoint</b>	URI	EPC Pure Identity URI for the GLN of the location at which the event took place. Note this must be a sGLN, not just a GLN.	urn:epc:id:sgln:036800.111111.0	Optional	Optional
<b>bizLocation</b>	URI	EPC Pure Identity URI for the GLN of the location where the objects are presumed to be following the event Note this must be a sGLN, not just a GLN.	urn:epc:id:sgln:036800.111111.0	Required	Required

### 6.1.2 Instance / Lot Master Data

For EPCIS 1.2, The lotNumber and itemExpirationDate instance-level master data elements are now in the CBV standard namespace urn:epcglobal:cbv:mda, instead of the GS1US extension namespace: http://epcis.gs1us.org/hc/ns.

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>lotNumber</b>	String	The lot or batch number for all of the EPCs in the epclist of the ObjectEvent.	AB1234	Required	Required
<b>itemExpirationDate</b>	Date	The expiration date for all of the EPCs in the epclist of the ObjectEvent, formatted as an xsd:date.	2019-03-31	Required	Required
<b>tradelItemMasterData</b> (EPCIS 1.1 ONLY)	Complex Type (see 6.2.3)	Use to capture DSCSA Master Data Elements	N/A	Optional	N/A – must use EPCIS 1.2

### 6.1.3 Trade Item Master Data

For EPCIS 1.2, the tradelItemMasterData instance-level master data element has been removed. Instead, product master data is carried in the EPCIS header rather than the Item/Lot Master Data (ILMD) section of the Commissioning event.

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>additionalTradelItemIdentification</b>	String	The additional trade item identification associated with this GTIN.	68001012345	Optional	Required
<b>additionalTradelItemIdentificationTypeCode</b>	String	NDC in 11-digit format for DSCSA (New in EPCIS 1.2). ABC will continue to support NDC442, NDC541, NDC532, NDC542	FDA_NDC_11	Optional	Required
<b>regulatedProductName</b> (EPCIS 1.1 – drugName)	String	The prescribed, regulated or generic product name or denomination that describes the true nature of the product and is sufficiently precise to distinguish it from other products according to country specific regulation.	GOODDRUG	Optional	Required
<b>manufacturerOfTradelItemPartyName</b> (EPCIS 1.1 – manufacturerName)	String	Party name information for the manufacturer of the trade item. For DSCSA, this should be the name of the NDA holder.	MY PHARMA	Optional	Required
<b>dosageFormType</b> (EPCIS 1.1 – dosageForm)	String	Standard forms of drugs (AEROSOL, CAPSULE, GEL, PILL, TABLET) as defined by the FDA. The FDA currently defines 143 dosage forms.	PILL	Optional	Required

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>strengthDescription</b> <i>(EPCIS 1.1 – strength)</i>	String	Free text describing the strength or potency of the product, including the unit of measure (for example, 60 mg, 25 ml).	10mg	Optional	Required
<b>netContentDescription</b> <i>(EPCIS 1.1 – containerSize)</i>	String	Free text describing the number of units contained in a package of the product (for example, 60 Table, 100 ounces). This is also known as pack size.	500	Optional	Required

## 6.2 Packing Events

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>eventTime</b>	Timestamp	Date and time of event	2012-03-26T17:10:16Z	Required	Required
<b>eventTimeZoneOffset</b>	String	Time zone offset in effect at the time and place where the event occurred.	-05:00	Required	Required
<b>recordTime</b>	Timestamp	Date and time the event was recorded in an EPCIS repository.	2013-10-01T22:08:02Z	Optional	Optional
<b>parentID</b>	URI	EPC of the outer container in EPC Pure Identity URI format.	urn:epc:id:sgtin:036800.1012345.2222223333	Required	Required
<b>childEPCs</b>	List of URI	EPC(s) of the item(s) being packed into the parent presented in EPC Pure Identity URI format.	N/A	Required	Required
<b>action</b>	String	ADD	Same as Desc	Required	Required
<b>bizStep</b>	URI	urn:epcglobal:cbv:bizstep:packing	Same as Desc	Required	Required
<b>disposition</b>	URI	urn:epcglobal:cbv:disp:in_progress	Same as Desc	Required	Required
<b>readPoint</b>	URI	EPC Pure Identity URI for the GLN of the location at which the event took place.	urn:epc:id:sgln:036800.111111.0	Optional	Optional
<b>bizLocation</b>	URI	EPC Pure Identity URI for the GLN of the location where the objects are presumed to be following the event. Note this must be a sGLN, not just a GLN.	urn:epc:id:sgln:036800.111111.0	Required	Required

## 6.3 Shipping Events

### 6.3.1 Standard Shipping Events

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>eventTime</b>	Timestamp	Date and time of event (see Section	2012-03-26T17:10:16Z	Required	Required
<b>eventTimeZone Offset</b>	String	Time zone offset in effect at the time and place where the event occurred.	-05:00	Required	Required
<b>recordTime</b>	Timestamp	Date/ time event was recorded in an EPCIS repository.	2013-10-01T22:08:02Z	Optional	Optional
<b>epcList</b>	List of URI	The EPC(s) of the outermost containers in the packaging hierarchy. Most likely, SSCCs of Cases or Pallets.	N/A	Required	Required
<b>action</b>	String	OBSERVE	Same as Desc	Required	Required
<b>bizStep</b>	URI	urn:epcglobal:cbv:bizstep:shipping	Same as Desc	Required	Required
<b>disposition</b>	URI	urn:epcglobal:cbv:disp:in_transit	Same as Desc	Required	Required
<b>readPoint</b>	URI	EPC Pure Identity URI for the GLN of the location at which the event took place.	urn:epc:id:sgln:036800.111111.0	Optional	Optional
<b>bizTransaction List</b>	List of biz transactions	Business transactions governing this Shipping event, which may include a purchase order or an invoice (see section 6.4.4)	N/A	Required	Required

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>sourceList</b>	List of sources	<p>Each source in the sourceList is a pair of URIs: one URI for the type and one URI for the value.</p> <p>The sourceList shall include one source of type urn:epcglobal:cbv:sdt:owning_party whose value is the EPC Pure Identity URI for the GLN of the transferring party.</p> <p>If the ship-from GLN is different from the transferring party's GLN, sourceList shall also include a second source of type urn:epcglobal:cbv:sdt:location whose value is the EPC Pure Identity URI of the ship-from GLN.</p> <p>Each GLN URI must match one of the companies in the company master data list.</p>	urn:epc:id:sgln:036800.111111.0 (see appendix for full XML example)	Optional	Required
<b>destinationList</b>	List of destinations	<p>Each destination in the destinationList is a pair of URIs: one URI for the type and one URI for the value.</p> <p>The destinationList shall include one destination of type urn:epcglobal:cbv:sdt:owning_party whose value is the EPC Pure Identity URI for the GLN of transfer-to party.</p> <p>If ship-to GLN is different from the transfer-to party's GLN, destinationList shall also include a second destination of type urn:epcglobal:cbv:sdt:location whose value is EPC Pure Identity URI of ship-to GLN.</p> <p>Each GLN URI must match one of the companies in the company master data list.</p>	urn:epc:id:sgln:0087701.00000.0 (see appendix for full XML example)	Optional	Required

## 6.3.2 Shipping Event Extension (Direct Purchase)

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>transactionDate</b>	Timestamp	The date in which the transfer of ownership occurred. Due to operational differences, it is possible for the shipping date (event time) to be different than the transaction date	2012-03-27T17:10:16Z	Optional	Required
<b>directPurchase</b>	Complex Type	Used to indicate if products were purchased directly from the manufacturer, from the exclusive distributor of the manufacturer, or from a repackager that purchased directly from the manufacturer. <ul style="list-style-type: none"> <li>- If the directPurchaseEPCs sub-element is omitted, the directPurchase field applies to all products in the shipment, including product contained inside the packages listed explicitly in the shipping event.</li> <li>- If directPurchaseEPCs sub-element is included, the directPurchase field applies only to those products whose identifiers are explicitly listed in the directPurchaseEPCs sub- element, including product contained inside packages listed explicitly in directPurchaseEPCs.</li> </ul>	N/A	Optional	Required
<b>@value</b>	Boolean	True if products were purchased directly from the manufacturer, from the exclusive distributor of the manufacturer, or from a repackager that purchased directly from the manufacturer.	True	Optional	Optional

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>directPurchaseEPCs</b>	List of URI	<p>If specified, limits the applicability of the directPurchase statement to the specified products or packages, including product contained inside any specified package. Each EPC shall either be:</p> <ul style="list-style-type: none"> <li>- an EPC listed in the main epcList of this Shipping event, or</li> <li>- an EPC that is aggregated to one of the EPCs listed in the main epcList of this Shipping event.</li> </ul> <p>If omitted, the directPurchase statement applies to all products in this Shipping event.</p>	EPC list	Optional	Required



### 6.3.3 Shipping Event Master Data

For EPCIS 1.2, the **companyMasterData** extension element has been removed. Instead, company master data is carried in the EPCIS header rather than as an event-level extension of the *Shipping* event. This avoids repetition when the same company appears in multiple *Shipping* events within the same EPCIS document.

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>Name</b> (EPCIS 1.1 – <i>companyName</i> )	String	The name of the location or party expressed in text	My Pharma LLC	Optional	Required
<b>streetAddressOne</b> (EPCIS 1.1 – <i>street1</i> )	String	The first line of the street address.	3575 Zumstein Ave	Optional	Required
<b>streetAddressTwo</b> (EPCIS 1.1 – <i>street2</i> )	String	The second line of the street address.	Suite 101	Optional	Optional
<b>streetAddressThree</b> (EPCIS 1.1 – <i>Did not exist, new in 1.2</i> )	String	The third line of the street address.		Optional	Optional
<b>City</b>	String	The city.	Washington	Optional	Required
<b>State</b> (EPCIS 1.1 – <i>stateOrRegion</i> )	String	The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code.	PA	Optional	Required
<b>postalCode</b>	String	The ZIP or other postal code.	12345-6789	Optional	Required
<b>countryCode</b> (EPCIS 1.1 – <i>country</i> )	String	The country using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code.	US	Optional	Required

## SSC-SPEC-002 Serialized Data Exchange

### 6.3.4 Shipping Event Transaction Detail (Multiple POs) – EPCIS 1.2 Only

Event extensions transactionDate and directPurchase are added for DSCSA data requirements, specifically the ability to capture multiple POs on a shipment.

Element	Type	Description	Example	CMO, Returns	TI, TS Exchange
<b>eventTime</b>	Timestamp	Date and time of event (see Section 8.2.1). This should match the date and time of the corresponding Shipping event.	2012-03-26T17:10:16Z	Required	Required
<b>eventTimeZoneOffset</b>	String	Time zone offset in effect at the time and place where the event occurred.	-05:00	Required	Required
<b>recordTime</b>	Timestamp	Date/ time event was recorded in an EPCIS repository.	2013-10-01T22:08:02Z	Optional	Optional
<b>epcList</b>	List of URI	<ul style="list-style-type: none"> <li>- EPC Pure Identity URI for each object associated with the business transactions listed in this event.</li> <li>- If the EPC of a container is indicated, all of its contents are associated with the business transaction.</li> </ul>	EPC List	Required	
<b>action</b>	String	ADD	Same is Desc	Required	
<b>bizStep</b>	URI	urn:epcglobal:cbv:bizstep:shipping	Same is Desc	Required	
<b>disposition</b>	URI	urn:epcglobal:cbv:disp:in_transit	Same is Desc	Required	
<b>readPoint</b>	URI	EPC Pure Identity URI for the GLN of the location at which the event took place. This should match the readPoint of the corresponding <i>Shipping</i> event.	urn:epc:id:sgln:036800.111111.0	Optional	
<b>bizTransaction List</b>	List of biz transactions	Business transactions governing this Shipping Business Transaction Detail event, which may include a purchase order or an invoice. Each transaction is represented as a pair of URIs: one URI for the type and one URI for the value.	N/A	Required	

## 7.0 EPCIS 1.1 EVENT EXAMPLES

### 7.1 Commissioning

```

<epcis:EPCISDocument xmlns:gs1ushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.0" creationDate="2012-03-25T17:10:16Z">
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2012-03-25T17:10:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:036800.0012345.10000000001</epc>
          <epc>urn:epc:id:sgtin:036800.1012345.22222222222</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:036800.111111.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:036800.111111.0</id>
        </bizLocation>
        <extension>
          <ilmd>
            <gs1ushc:tradeItemMasterData>
              <gs1ushc:additionalTradeItemIdentification>
                <gs1ushc:additionalTradeItemIdentificationValue>6800112345</gs1ushc:additionalTradeItemIdentificationValue>
                <gs1ushc:additionalTradeItemIdentificationType>NDC442</gs1ushc:additionalTradeItemIdentificationType>
              </gs1ushc:additionalTradeItemIdentification>
              <gs1ushc:drugName>My Drug</gs1ushc:drugName>
              <gs1ushc:manufacturer>My Pharma LLC</gs1ushc:manufacturer>
              <gs1ushc:dosageForm>PILL</gs1ushc:dosageForm>
              <gs1ushc:strength>100mg</gs1ushc:strength>
              <gs1ushc:containerSize>500</gs1ushc:containerSize>
            </gs1ushc:tradeItemMasterData>
            <gs1ushc:lotNumber>LOT123</gs1ushc:lotNumber>
            <gs1ushc:itemExpirationDate>2019-03-31</gs1ushc:itemExpirationDate>
          </ilmd>
        </extension>
        <gs1ushc:eventID>urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6</gs1ushc:eventID>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>

```

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

## 7.2 Packing (Aggregation)

```
<epcis:EPCISDocument xmlns:gs1ushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.0" creationDate="2012-03-25T17:10:16Z">
  <EPCISBody>
    <EventList>
      <AggregationEvent>
        <eventTime>2012-03-25T17:10:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:036800.1012345.2222223333</parentID>
        <childEPCs>
          <epc>urn:epc:id:sgtin:036800.0012345.10000001001</epc>
          <epc>urn:epc:id:sgtin:036800.0012345.10000001002</epc>
          <epc>urn:epc:id:sgtin:036800.0012345.10000001003</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:036800.111111.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:036800.111111.0</id>
        </bizLocation>
        <gs1ushc:eventID>urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6</gs1ushc:eventID>
      </AggregationEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

### 7.3 Shipping Event

```
<epcis:EPCISDocument xmlns:gs1ushc="http://epcis.gs1us.org/hc/ns" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.0" creationDate="2012-03-25T17:10:16Z">
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2012-03-25T17:10:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sscc:036800.01234567890</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:036800.111111.0</id>
        </readPoint>
        <bizTransactionList>
          <bizTransaction type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0368001111116:NV123</bizTransaction>
          <bizTransaction type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0368001111116:ASN12345</bizTransaction>
          <bizTransaction type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0716163011226:0108763332</bizTransaction>
        </bizTransactionList>
        <extension>
          <sourceList>
            <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:036800.111111.0</source>
            <source type="urn:epcglobal:cbv:sdt:locaton">urn:epc:id:sgln:036800.111333.0</source>
          </sourceList>
          <destinationList>
            <destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0087701.00000.0</destination>
            <destination type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:0716163.01122.0</destination>
          </destinationList>
        </extension>
        <gs1ushc:eventID>urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6</gs1ushc:eventID>
        <gs1ushc:companyMasterData>
          <gs1ushc:companyMasterDataRecord>
            <gs1ushc:identifier>urn:epc:id:sgln:036800.111111.0</gs1ushc:identifier>
            <gs1ushc:street1>3575 Zumstein Ave</gs1ushc:street1>
            <gs1ushc:street2>Suite 101</gs1ushc:street2>
            <gs1ushc:city>Washington</gs1ushc:city>
            <gs1ushc:stateOrRegion>PA</gs1ushc:stateOrRegion>
            <gs1ushc:postalCode>12345-6789</gs1ushc:postalCode>
            <gs1ushc:country>US</gs1ushc:country>
          </gs1ushc:companyMasterDataRecord>
        </gs1ushc:companyMasterData>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

## SSC-SPEC-002 Serialized Data Exchange

```
</gs1ushc:companyMasterDataRecord>
<gs1ushc:companyMasterDataRecord>
  <gs1ushc:identifier> urn:epc:id:sgln:036800.111333.0</gs1ushc:identifier>
  <gs1ushc:street1>9999 Zumstein Ave</gs1ushc:street1>
  <gs1ushc:city>Washington</gs1ushc:city>
  <gs1ushc:stateOrRegion>PA</gs1ushc:stateOrRegion>
  <gs1ushc:postalCode>12345-6789</gs1ushc:postalCode>
  <gs1ushc:country>US</gs1ushc:country>
</gs1ushc:companyMasterDataRecord>
<gs1ushc:companyMasterDataRecord>
  <gs1ushc:identifier>urn:epc:id:sgln:0087701.00000.0</gs1ushc:identifier>
  <gs1ushc:street1>1300 Morris Dr</gs1ushc:street1>
  <gs1ushc:city>Chesterbrook</gs1ushc:city>
  <gs1ushc:stateOrRegion>PA</gs1ushc:stateOrRegion>
  <gs1ushc:postalCode>19087-0000</gs1ushc:postalCode>
  <gs1ushc:country>US</gs1ushc:country>
</gs1ushc:companyMasterDataRecord>
<gs1ushc:companyMasterDataRecord>
  <gs1ushc:identifier>urn:epc:id:sgln:0716163.01122.0</gs1ushc:identifier>
  <gs1ushc:street1>6305 LaSalle Drive</gs1ushc:street1>
  <gs1ushc:city>Lockbourne</gs1ushc:city>
  <gs1ushc:stateOrRegion>OH</gs1ushc:stateOrRegion>
  <gs1ushc:postalCode>43137-0000</gs1ushc:postalCode>
  <gs1ushc:country>US</gs1ushc:country>
</gs1ushc:companyMasterDataRecord>
</gs1ushc:companyMasterData>
<gs1ushc:sourceLicenseList>
  <gs1ushc:licenseNumber state="PA" agency="SLN">0000001013</gs1ushc:licenseNumber>
</gs1ushc:sourceLicenseList>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 8.0 EPCIS 1.2 EVENT EXAMPLES

### 8.1 Commissioning

```

<?xml version="1.0"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2" creationDate="2012-03-25T17:10:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="SGLN">urn:epc:id:sgln:030000.000000.0</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="SGLN">urn:epc:id:sgln:0716163.01122.0</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>1234567890</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2012-03-25T12:10:16-04:00</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
              <VocabularyElement id="urn:epc:idpat:sgtin:036800.0012345.*">
                <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">68000012345</attribute>
                <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
                <attribute id="urn:epcglobal:cbv:mda#regulatedProductName">My Drug</attribute>
                <attribute id="urn:epcglobal:cbv:mda#manufacturerOfTradeItemPartyName">My 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</attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
  </EPCISHeader>

```



## SSC-SPEC-002 Serialized Data Exchange

```
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2012-03-25T10:10:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:036800.0012345.10000000001</epc>
        <epc>urn:epc:id:sgtin:036800.0012345.10000000002</epc>
        <epc>urn:epc:id:sgtin:036800.0012345.10000000003</epc>
        <epc>urn:epc:id:sgtin:036800.1012345.22222222222</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:036800.111111.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:036800.111111.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>LOT123</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2019-01-31</cbvmda:itemExpirationDate>
        </ilmd>
      </extension>
    </ObjectEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 8.2 Packing (Aggregation)

```
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2" creationDate="2012-06-26T17:10:16Z">
  <EPCISBody>
    <EventList>
      <AggregationEvent>
        <eventTime>2012-06-26T17:10:16Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <parentID>urn:epc:id:sgtin:036800.1012345.2222223333</parentID>
        <childEPCs>
          <epc>urn:epc:id:sgtin:036800.0012345.10000001001</epc>
          <epc>urn:epc:id:sgtin:036800.0012345.10000001002</epc>
          <epc>urn:epc:id:sgtin:036800.0012345.10000001003</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:036800.111111.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:036800.111111.0</id>
        </bizLocation>
      </AggregationEvent>
    </EventList>
  </EPCISBody>
</epcis:EPCISDocument>
```

### 8.3 Shipping Event (With TS and DPS)

```
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2" creationDate="2012-03-27T17:10:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="SGLN">urn:epc:id:sgln:030000.000000.0</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="SGLN">urn:epc:id:sgln:0716163.01122.0</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>123456789011</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2012-03-27T15:10:16:04:00</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
            <VocabularyElementList>
              <VocabularyElement id="urn:epc:id:sgln:036800.111111.0">
                <attribute id="urn:epcglobal:cbv:mda#name">My Pharma LLC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">3575 Zumstein Ave</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 101</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>
              <VocabularyElement id="urn:epc:id:sgln:0087701.00000.0">
                <attribute id="urn:epcglobal:cbv:mda#name">AmerisourceBergen Corporation</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1300 Morris Drive</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">Chesterbrook</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">PA</attribute>
                <attribute id="urn:epcglobal:cbv:mda#postalCode">19087-0000</attribute>
                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
        </EPCISMasterData>
      </extension>
    </EPCISHeader>
  </EPCISDocument>
```

## SSC-SPEC-002 Serialized Data Exchange

```

    <VocabularyElement id="urn:epc:id:sgln:0716163.01122.0">
      <attribute id="urn:epcglobal:cbv:mda#name">AmerisourceBergen Columbus DC</attribute>
      <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">6305 LaSalle Drive</attribute>
      <attribute id="urn:epcglobal:cbv:mda#city">Lockbourne</attribute>
      <attribute id="urn:epcglobal:cbv:mda#state">OH</attribute>
      <attribute id="urn:epcglobal:cbv:mda#postalCode">43137-0000</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>
<!-- only used if an exclusive distributor>
<gs1ushc:directPurchase value="true">
<directPurchaseEPCs>
  <!-- Pallet#1 and all of its contents are directly purchased. The EPC below is the SSCC of Pallet #1 -->
  <epc>urn:epc:id:sscc:036800.02468024680</epc>
  <!-- Pallet#2 contains 4 homogeneous cases but only case1 and case2 are directly purchased. The two EPCs below are the SGTINs of those two cases. -->
  <epc>urn:epc:id:sgtin:036800.1123456.400</epc>
  <epc>urn:epc:id:sgtin:036800.1123456.401</epc>
</directPurchaseEPCs >
</gs1ushc:directPurchase>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2012-03-27T15:10:16Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:036800.01234567890</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:036800.111111.0</id>
      </readPoint>
    </ObjectEvent>
  </EventList>
</EPCISBody>

```

```
<bizTransactionList>
  <bizTransaction type="urn:epcglobal:cbv:btt:inv">urn:epcglobal:cbv:bt:0368001111116:NV123</bizTransaction>
  <bizTransaction type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:0368001111116:ASN12345</bizTransaction>
  <bizTransaction type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0716163011226:0108763332</bizTransaction>
</bizTransactionList>
<extension>
  <sourceList>
    <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:036800.111111.0</source>
    <source type="urn:epcglobal:cbv:sdt:locaton">urn:epc:id:sgln:036800.111111.0</source>
  </sourceList>
  <destinationList>
    <destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0087701.00000.0</destination>
    <destination type="urn:epcglobal:cbv:sdt:location ">urn:epc:id:sgln:0716163.01122.0</destination>
  </destinationList>
</extension>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```

## 8.4 Complex Shipping Business Transaction

This example shows how to capture a shipment containing 3 pallets with SSCCs and illustrates how to associate 2 Purchase Orders (POs) to the specific shipment content.

- SSCC 00368000000001012 is the first pallet with all of its contents covered by PO# 010451234.
- SSCC 00368000000001029 is the second pallet with all of its contents covered by PO# 010454567.
- SSCC 00368000000001036 is the third pallet which contains 5 cases of which:
  - 2 cases (SGTINs with serials 401, 402) belong to PO# 010451234 and
  - 3 cases (SGTINs with serials 501, 502, 503) belong to PO# 010454567.

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2" creationDate="2016-03-15T10:11:16Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>...</sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
            <VocabularyElementList>
              <VocabularyElement id="urn:epc:id:sgIn:036800.111111.0">
                <attribute id="urn:epcglobal:cbv:mda#name">My Pharma LLC</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">3575 Zumstein Ave</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Suite 101</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>
              <VocabularyElement id="urn:epc:id:sgIn:0087701.00000.0">
                <attribute id="urn:epcglobal:cbv:mda#name">AmerisourceBergen Corporation</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">1300 Morris Drive</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">Chesterbrook</attribute>
                <attribute id="urn:epcglobal:cbv:mda#state">PA</attribute>
                <attribute id="urn:epcglobal:cbv:mda#postalCode">19087-000</attribute>
                <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
  </EPCISHeader>
```

## SSC-SPEC-002 Serialized Data Exchange

```
<EPCISBody>
  <EventList>
    <!-- Shipping event for 3 SSCCs 101, 102, and 103. Shipment is covered by 2 Purchase Orders (POs) #010451234 and #010454567. -->
    <ObjectEvent>
      <eventTime>2016-03-15T10:11:12Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:036800.00000000101</epc>
        <epc>urn:epc:id:sscc:036800.00000000102</epc>
        <epc>urn:epc:id:sscc:036800.00000000103</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:036800.111111.0</id>
      </readPoint>
      <bizTransactionList>
        <!-- Both PO# 1234 and PO#4567 are associated with this shipment -->
        <bizTransaction type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0716163011226:010451234</bizTransaction>
        <bizTransaction type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0716163011226:010454567</bizTransaction>
      </bizTransactionList>
      <extension>
        <sourceList>
          <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:036800.111111.0</source>
        </sourceList>
        <destinationList>
          <destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:0087701.00000.0</destination>
        </destinationList>
      </extension>
    </ObjectEvent>
    <!-- Using a Transaction Event, record the shipping contents specifically associated with PO# 010451234 -->
    <TransactionEvent>
      <!-- Use the same eventTime in the transaction event as in the shipping event -->
      <eventTime>2016-03-15T10:11:12Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <bizTransactionList>
        <!-- Associate PO# 1234 to the EPCs in the business transaction -->
        <bizTransaction type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0399999999991:010451234</bizTransaction>
      </bizTransactionList>
      <epcList>
        <epc>urn:epc:id:sscc:036800.00000000101</epc>
```

## SSC-SPEC-002 Serialized Data Exchange

```
<epc>urn:epc:id:sgtin:036800.1123456.401</epc>
<epc>urn:epc:id:sgtin:036800.1123456.402</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:036800.111111.0</id>
</readPoint>
</TransactionEvent>
<!-- Use the same eventTime in the transaction event as in the shipping event -->
<TransactionEvent>
  <eventTime>2016-03-15T10:11:12Z</eventTime>
  <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
  <bizTransactionList>
    <!-- Associate PO# 010454567 to the EPCs in the business transaction -->
    <bizTransaction type="urn:epcglobal:cbv:btt:po">urn:epcglobal:cbv:bt:0716163011226:010454567</bizTransaction>
  </bizTransactionList>
  <epcList>
    <epc>urn:epc:id:sgtin:036800.1123456.501</epc>
    <epc>urn:epc:id:sgtin:036800.1123456.502</epc>
    <epc>urn:epc:id:sgtin:036800.1123456.503</epc>
    <epc>urn:epc:id:sscc:036800.00000000102</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:036800.111111.0</id>
  </readPoint>
</TransactionEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>
```



**9.0 PRODUCT INFORMATION TEMPLATE**

GTIN	GS1 Company Prefix	UoM (Each, Inner Pack, Case, Etc)	Proprietary Name	Established Name (21 USC 352(e)(3))	Dosage Form	Quantity	Strength	NDC Code (11)	Contained QTY
00300123000018	0300123	Each	GoodDrug	Latinlikename	Tablet	30	150 mg	12345012916	N/A
30300123000012	0300123	Inner Pack	GoodDrug	Latinlikename	Tablet	30	150 mg	12345012916	6
40300123000013	0300123	Case	GoodDrug	Latinlikename	Tablet	30	150 mg	12345012916	48

---

**10.0 LOCATION INFORMATION TEMPLATE**

GLN	GS1 Company Prefix	GLN Name	Sold From or Ship From	Address	City	State	Zip Code
0087701000003	0087701	AmerisourceBergen Corporate	Sold From	1300 Morris Drive	Chesterbrook	PA	19087
0716163011363	0716163	ABDC Amityville	Ship From	5500 New Horizons Blvd.,	Amityville	NY	11701