

856 Advance Ship Notice

ANSI X12-4010
Supplier Implementation Guide
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856 Ship Notice/Manifest

Functional Group ID=**SH**

Introduction:

This standard contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M		1	
M	020	BSN	Beginning Segment for Ship Notice	M		1	

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level - SHIPMENT LEVEL	M	1		c1
Must Use	110	TD1	Carrier Details (Quantity and Weight) - SHIPMENT LEVEL	O	>1		
Must Use	120	TD5	Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL	O	>1		
	130	TD3	Carrier Details (Equipment) - SHIPMENT LEVEL	O	>1		
Must Use	150	REF	Reference Identification - SHIPMENT LEVEL	O	>1		
Must Use	200	DTM	Date/Time Reference - SHIPMENT LEVEL	O	>1		
	210	FOB	F.O.B. Related Instructions	O	1		
	215	PAL	Pallet Information	O	1		
			LOOP ID - N1			200	
Must Use	220	N1	Name - SHIP FROM - SHIPMENT LEVEL	O	1		
Must Use	240	N3	Address Information - SHIPMENT LEVEL	O	2		
Must Use	250	N4	Geographic Location - SHIPMENT LEVEL	O	1		
			LOOP ID - N1			200	
Must Use	220	N1	Name - SHIP TO - SHIPMENT LEVEL	O	1		
Must Use	240	N3	Address Information - SHIPMENT LEVEL	O	2		

Must Use	250	N4	Geographic Location - SHIPMENT LEVEL	O	1
M	010	HL	Hierarchical Level - ORDER LEVEL	M	>1
Must Use	050	PRF	Purchase Order Reference - ORDER LEVEL	O	>1
	110	TD1	Carrier Details (Quantity and Weight) - ORDER LEVEL	O	>1
Must Use	150	REF	Reference Identification - ORDER LEVEL	O	>1
M	010	HL	Hierarchical Level - TARE LEVEL	M	>1
Must Use	190	MAN	Marks and Numbers - TARE LEVEL	O	>1
	215	PAL	Pallet Information - TARE LEVEL	O	1
	010	HL	Hierarchical Level - PACK LEVEL	O	1
Must Use	020	LIN	Item Identification - PACK LEVEL	O	1
Must Use	030	SN1	Item Detail (Shipment) - PACK LEVEL	O	1
	060	PO4	Item Physical Details - PACK LEVEL	O	1
Must Use	190	MAN	Marks and Numbers - PACK LEVEL	O	>1
M	010	HL	Hierarchical Level - ITEM LEVEL	M	1
Must Use	020	LIN	Item Identification - ITEM LEVEL	O	1
Must Use	030	SN1	Item Detail (Shipment) - ITEM LEVEL	O	1
Must Use	060	PO4	Item Physical Details - ITEM LEVEL	O	1
	070	PID	Product/Item Description - ITEM LEVEL	O	200
	200	DTM	Date/Time Reference - ITEM LEVEL	O	10

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	010	CTT	Transaction Totals	O	1		n1
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

- The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BSN** Beginning Segment for Ship Notice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
 2 BSN04 is the time the shipment transaction set is created.
 3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	BSN01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	BSN02	396	Shipment Identification	M AN 2/30
			A unique control number assigned by the original shipper to identify a specific shipment	
			Vendor Bill of Lading number or other shipment identifier	
M	BSN03	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			Document create date	
M	BSN04	337	Time	M TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
	BSN05	1005	Hierarchical Structure Code	O ID 4/4
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	
			Code Name	
			0001 Shipment, Order, Packaging, Item (if SOTI-formatted ASN)	
			0003 Shipment, Packaging, Order, Item (if STOI-formatted ASN)	
			0004 Shipment, Order, Item	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **HL** Hierarchical Level - SHIPMENT LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		S Shipment	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	HL04	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **TD1** Carrier Details (Quantity and Weight) - SHIPMENT LEVEL
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments:

Notes: TD1*CTN*101****G*2555.113*LB*1728*CF~

Data Element Summary

Ref.	Data	Data Element Summary	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD101	103	Packaging Code	O AN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
		CAS Case	
		CTN Carton	
		PLT Pallet	
		TBN Tote / Bin	
		PLT is applicable to all Non-RX warehouse shipments. The other codes may apply to RX items and Store shipments.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	TD102	80 Lading Quantity	X N0 1/7
		Number of units (pieces) of the lading commodity	
	TD106	187 Weight Qualifier	O ID 1/2
		Code defining the type of weight	
		G Gross Weight	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	TD107	81 Weight	X R 1/10
		Numeric value of weight	
	TD108	355 Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		LB Pound	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	TD109	183 Volume	X R 1/8
		Value of volumetric measure	
	TD110	355 Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CF Cubic Feet Only	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL

Position: 120

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To specify the carrier and sequence of routing and provide transit time information

Syntax Notes:

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

Semantic Notes:

- 1 TD515 is the country where the service is to be performed.

Comments:

- 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Notes: TD5*B*2*RBTW*M*Old Dominion Frieght Line~

Data Element Summary

Ref.	Data Element	Name	Attributes
	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B Origin Carrier (Any)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		2 Standard Carrier Alpha Code (SCAC)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	67	Identification Code	X AN 2/80
		Code identifying a party or other code	
		Standard Carrier Abbreviation Code (SCAC)	
	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		A Air	
		AE Air Express	
		M Motor (Common Carrier)	
		R Rail	
		S Ocean	
		SR Supplier Truck	
		U Private Parcel Sevice	
		X Intermodal (Piggyback)	
	387	Routing	X AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
		Carrier's Identity	

Segment: **TD3** Carrier Details (Equipment) - SHIPMENT LEVEL
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:

- 1 Only one of TD301 or TD310 may be present.
- 2 If TD302 is present, then TD303 is required.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:

Comments:

Notes: TD3*TL**1234567890~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
TD301	40	Equipment Description Code	X ID 2/2
		Code identifying type of equipment used for shipment	
		CN Container	
		CZ Refrigerated Container	
		RT Controlled Temp Trailer (Reefer)	
		TL Trailer (not otherwise specified)	
		VE Vessel, Ocean	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
TD303	207	Equipment Number	X AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
		Trailer Number / Air Bill Number	

Segment: **REF** Reference Identification - SHIPMENT LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: A total of three REF segments may be used within this loop, as defined below. A Carrier Reference Number (PRO/Invoice) and Bill of Lading Number are mandatory. An additional tracking number may also be provided optionally.

 Example:
 REF*CN*14783516~
 REF*BM*78954132~
 REF*2I*1238796~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			CN Carrier's Reference Number (PRO/Invoice) (Optional)	
			BM Bill of Lading Number (MANDATORY)	
			2I Tracking Number (Optional)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Carrier's Reference Number, if REF01 = CN (Optional)	
			Bill of Lading Number, if REF01 = BM (MANDATORY)	
			Tracking Number, if REF01 = 2I (Optional)	

Segment: **DTM** Date/Time Reference - SHIPMENT LEVEL
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

The Date Shipped and Current Scheduled Delivery Date should be provided in two reoccurring DTM segments.

Example:

DTM*011*20170130~

DTM*067*20170202~

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
M	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Date Shipped	
		067 Current Scheduled Delivery Date	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	DTM02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
	DTM03	337 Time	X TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
		Format: HHMMSS	

Segment: **FOB** F.O.B. Related Instructions
Position: 210
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:

- 1 If FOB03 is present, then FOB02 is required.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

Semantic Notes:

- 1 FOB01 indicates which party will pay the carrier.
- 2 FOB02 is the code specifying transportation responsibility location.
- 3 FOB06 is the code specifying the title passage location.
- 4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Comments:

Data Element Summary

Ref.	Data Element	Name	Attributes
M	FOB01	146 Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		CC Collect	
		PP Prepaid (By Seller)	
		PB Customer Pickup/Backhaul	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	FOB02	309 Location Qualifier	X ID 1/2
		Code identifying type of location	
		OR Origin (Shipping Point)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	FOB03	352 Description	O AN 1/80
		A free-form description to clarify the related data elements and their content	
		A general, free form message regarding FOB status of the shipment. Example: "At Dock"	
	FOB04	334 Transportation Terms Qualifier Code	O ID 2/2
		Code identifying the source of the transportation terms	
		02 Trade Terms	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	FOB05	335 Transportation Terms Code	X ID 3/3
		Code identifying the trade terms which apply to the shipment transportation responsibility	
		FOB Free on Board	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PAL** Pallet Information
Position: 215
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

Syntax Notes:

- 1 If either PAL05 or PAL06 is present, then the other is required.
- 2 If PAL07 is present, then PAL10 is required.
- 3 If PAL08 is present, then PAL10 is required.
- 4 If PAL09 is present, then PAL10 is required.
- 5 If PAL10 is present, then at least one of PAL07 PAL08 or PAL09 is required.
- 6 If either PAL11 or PAL12 is present, then the other is required.
- 7 If either PAL13 or PAL14 is present, then the other is required.

Semantic Notes:

- 1 PAL04 (Pack) is the number of pieces on the pallet.
- 2 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
- 3 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
- 4 PAL09 (Height) is the height of the pallet and load.
- 5 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Comments:

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
PAL01	883	Pallet Type Code Code indicating the type of pallet Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
PAL02	884	Pallet Tiers The number of layers per pallet	O N0 1/3
PAL03	885	Pallet Blocks The number of pieces (cartons) per layer on the pallet	O N0 1/3
PAL04	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container	O N0 1/6
PAL05	395	Unit Weight Numeric value of weight per unit	X R 1/8
PAL06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
PAL07	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	X R 1/8
PAL08	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X R 1/8

PAL09	65	Height	X R 1/8
		Vertical dimension of an object measured when the object is in the upright position	
PAL10	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
PAL11	384	Gross Weight per Pack	X R 1/9
		Numeric value of gross weight per pack	
PAL12	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
PAL13	385	Gross Volume per Pack	X R 1/9
		Numeric value of gross volume per pack	
PAL14	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
PAL15	399	Pallet Exchange Code	O ID 1/1
		Code specifying pallet exchange instructions Refer to 004010 Data Element Dictionary for acceptable code values.	
PAL16	810	Inner Pack	O N0 1/6
		The number of eaches per inner container	

Segment:	N1 Name - SHIP FROM - SHIPMENT LEVEL
Position:	220
Loop:	N1 Optional (Must Use)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.
Notes:	The Ship From location information should be the DEA number for Rx products. For Nox RX, DUNS Nuber (or DUNS +4) should be used.
	<p>Example:</p> <p>N1*SF*BRICKS & MORTAR CO*9*0309999234569~</p> <p>N1*SF*COGEN PHARMA*11*ZZ3897564~</p> <p>Ship From N1-N2-N3-N4-REF-PER-PER-PER</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		SF Ship From	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		11 Drug Enforcement Administration (DEA)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		DUNS, DUNS+4, or DEA as per N103 qualifier. Generally, non-Rx utilize DUNS variations while Rx use DEA. If there is a case where a DUNS is utilized for a Rx item, then the DEA should be provided in the N2 segment.	

Segment: N3 Address Information - SHIPMENT LEVEL
Position: 240
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*219 MAIN ST*BACK DOOR~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location - SHIPMENT LEVEL**
Position: 250
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*CHICAGO*IL*60614~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	N401	19	City Name Free-form text for city name	O AN 2/30
Must Use	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
	N404	26	Country Code Code identifying the country	O ID 2/3

Segment: **N1 Name - SHIP TO - SHIPMENT LEVEL**

Position: 220

Loop: N1 Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To identify a party by type of organization, name, and code

Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes: CVS Ship To locations may include warehouse or store information depending on the nature of order fulfillment. The DEA number should be used for Rx warehouse shipments and the CVS Warehouse code for non-RX. Non-Rx store deliveries should include the CVS store number while Rx deliveries should include both the store number (N1) and related DEA number (N2).

The GS1-US Global Location Number (GLN) will also be available for use for both warehouse and store locations in the future. CVS EDI will notify the partner community when those codes are available for use. GLN to be populated in the following N2 segment.

Examples:
 Warehouse, RX: N1*ST*CVS*11*RC0314891~
 Warehouse, non-RX: N1*ST*CVS*54*I202~
 Store, RX & non-RX: N1*ST*CVS 5729*92*05729~
 Ship From N1-N2-N3-N4-REF

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
Must Use	N102	93	Name Free-form name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 11 Drug Enforcement Administration (DEA) 54 Warehouse Number 92 CVS Store Number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
Must Use	N104	67	Identification Code	X AN 2/80

Code identifying a party or other code

DUNS, DUNS+4, DEA Number, CVS Warehouse, or Store Number as per N103 qualifier. Generally, non-Rx utilize DUNS variations while Rx use DEA. If there is a case where a DUNS is utilized for a Rx item, then the DEA should be provided in the N2 segment.

Please refer to cvssuppliers.com Distribution Center ID Table for the warehouse codes and DEA numbers - <https://cvssuppliers.com/distribution-center-id-xref>

Segment: N3 Address Information - SHIPMENT LEVEL
Position: 240
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*100 CVS Center Dr ~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location - SHIPMENT LEVEL**
Position: 250
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*WOONSOCKET*RI*02895~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	N401	19	City Name Free-form text for city name	O AN 2/30
Must Use	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
	N404	26	Country Code Code identifying the country	O ID 2/3

Segment: **HL** Hierarchical Level - ORDER LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*2**O*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		O Order	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	HL04	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PRF** Purchase Order Reference - ORDER LEVEL
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: 1 PRF04 is the date assigned by the purchaser to purchase order.
Comments:
Notes:

Semantic Notes:
 1. PRF04 is the date assigned by the purchaser to purchase order.
 Example: PRF*1234567***20140130~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324 Purchase Order Number	M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser CVSHealth Purchase Order Number	
	PRF02	328 Release Number	O AN 1/30
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
	PRF04	373 Date	O DT 8/8
		Date expressed as CCYYMMDD Original Purchase Order Date	

Segment: **TD1** Carrier Details (Quantity and Weight) - ORDER LEVEL
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments:

Notes: TD1*CTN*101****G*2555.113*LB*1728*CF~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD101	103	Packaging Code	O AN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
		CAS Case	
		CTN Carton (Used for Displays Only)	
		TBN Tote / Bin	
		PLT is applicable to all Non-RX warehouse shipments. The other codes may apply to RX items and Store shipments.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
TD102	80	Lading Quantity	X N0 1/7
		Number of units (pieces) of the lading commodity	
TD106	187	Weight Qualifier	O ID 1/2
		Code defining the type of weight	
		G Gross Weight	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
TD107	81	Weight	X R 1/10
		Numeric value of weight	
TD108	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		LB Pound	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
TD109	183	Unit or Basis for Measurement Code	X R 1/8
		Value of volumetric measure	
TD110	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CF Shipment Cube	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **REF** Reference Identification - ORDER LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

CVS Vendor Number

Examples:
 CVS Vendor Number, REF*VN*99999

Data Element Summary

M	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification VN or VR	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier CVS Vendor Number as aligned to the REF01	X AN 1/30

Segment: **HL** Hierarchical Level - TARE LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*3*2*T*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
		T Shipping Tare Refer to 004010 Data Element Dictionary for acceptable code values.	
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment:	MAN Marks and Numbers - TARE LEVEL
Position:	190
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>Semantic Notes: MAN segment should only contain numbers used for logistical purposes [to track containers].</p> <p>Example: MAN*GM*03094400000000045~</p>

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88	Marks and Numbers Qualifier	M ID 1/2
			Code specifying the application or source of Marks and Numbers (87)	
			GM SSCC-18 and Application Identifier	
			(http://cvssuppliers.com/asn-advanced-ship-notice-and-gs1-128-label-requirements)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	MAN02	87	Marks and Numbers	M AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
			Must match SSCC-18 number that is sent on shipping label	

Segment: **PAL** Pallet Information - TARE LEVEL
Position: 215
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

Syntax Notes:

- 1 If either PAL05 or PAL06 is present, then the other is required.
- 2 If PAL07 is present, then PAL10 is required.
- 3 If PAL08 is present, then PAL10 is required.
- 4 If PAL09 is present, then PAL10 is required.
- 5 If PAL10 is present, then at least one of PAL07 PAL08 or PAL09 is required.
- 6 If either PAL11 or PAL12 is present, then the other is required.
- 7 If either PAL13 or PAL14 is present, then the other is required.

Semantic Notes:

- 1 PAL04 (Pack) is the number of pieces on the pallet.
- 2 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
- 3 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
- 4 PAL09 (Height) is the height of the pallet and load.
- 5 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Comments:

Notes: Note that the pallet dimensional/cube information should reflect the loaded pallet related to this shipment (not of the empty pallet).

PAL*6*4*42*136*****6*FT*824.268*LB*21.973*LB*5~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PAL01	883	Pallet Type Code Code indicating the type of pallet 6 Wood Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
PAL02	884	Pallet Tiers The number of layers per pallet	O N0 1/3
PAL03	885	Pallet Blocks The number of pieces (cartons) per layer on the pallet	O N0 1/3
PAL04	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container Number of shipping containers on pallet.	O N0 1/6
PAL05	395	Unit Weight Numeric value of weight per unit Numeric value of weight of pallet.	X R 1/8
PAL06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pounds	X ID 2/2

		Refer to 004010 Data Element Dictionary for acceptable code values.	
PAL07	82	Length	X R 1/8
		Largest horizontal dimension of an object measured when the object is in the upright position	
PAL08	189	Width	X R 1/8
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
PAL09	65	Height	X R 1/8
		Vertical dimension of an object measured when the object is in the upright position	
PAL10	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		IN Inches	
		FT Foot	
		MR Meter	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PAL15	399	Pallet Exchange Code	O ID 1/1
		Code specifying pallet exchange instructions	
		1 No Exchange/No Return	
		2 Exchange Pallets	
		3 Return Pallets	
		4 Pallets To Be Purchased By Customer	
		5 Third Party Pallet Exchange	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **HL** Hierarchical Level - PACK LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Use only if not sending Tare Level

Example: HL*4*3*P*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		P Pack	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	HL04	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LIN** Item Identification - PACK LEVEL
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification
Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Mandatory field if not sending Tare Level

Notes: Only Applicable for Single (homogeneous) SKU Full Case Cartons

Example:

LIN*UA*121234512345*ND*556677895*VC*4456633213~

LIN*UA*121234512345*UI*11234512345*VC*AC25978~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product / Service ID (234)	
		UA U.P.C./EAN Case Code (2-5-5)	
		or	
		UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)	
		Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LIN03	Product/Service ID	M AN 1/48
		Identifying number for a product or service	
		UPC/EAN case or container code as appropriate, aligned with LIN 02	
	LIN04	Product/Service ID Qualifier	X ID 2/2

		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		ND National Drug Code (NDC) if Rx	
		UI U.P.C. Consumer Package Code (1-5-5) if non-Rx	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN05	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		UPC or NDC number as appropriate, aligned with LIN 02	
LIN06	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		VC Vendor's (Seller's) Catalog Number	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN07	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		Vendor Catalog Number	
LIN08	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		LT Lot Number (This ID is mandatory for Rx DSCSA Shipment at all levels as appropriate for the product...Pack, Inner Pack, Item.)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN09	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		Product Lot Number	

Segment: **SN1** Item Detail (Shipment) - PACK LEVEL
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
Comments: 1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: Must use if sending Pack Level

Total number of cases of this product shipped on this pallet. UOM may also be Tote for Rx and front store deliveries.

Example:
 SN1**10*CA~
 SN1**1*TE~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SN102	382 Number of Units Shipped	M R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
		This value should equate to the total number of cases on this pallet.	
M	SN103	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CA Case	
		TE Tote	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PO4** Item Physical Details - PACK LEVEL
Position: 060
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:

- 1 If either PO402 or PO403 is present, then the other is required.
- 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- 9 If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

Semantic Notes:

- 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3 PO417 is the ending package identifier in a range of identifiers.
- 4 PO418 is the number of packages in this layer.

Comments:

- 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: At CVSHealth we're interested in both the total number of sellable units within a shipping container, and how they're being shipped to us. The PO4 is generally used in two ways, either as a summary or detail segment.

If only PO401 is used, the value denotes the total number of sellable units in the carton. Product specifics are then derived via Item Level segments.

If PO401-PO414 elements are used, these provide the number of inner containers (packs) within the shipping carton. PO414 would be the total number of sellable units within the pack, or total number of inner packs if present. In this scenario, we would also like a simple summary of the total number of eaches within the outer shipping case, regardless of the number of packs or inner packs, and have mapped this in the PO418 element at the Pack Level.

Examples:

PO4*8*32*OZ*PCS*G*12*01*3*CF*20*10*10*IN*****8~
 PO4*4*4*PK*PCS*G*468*01*321*CC*20*10*3*IN*24****96~

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
PO401	356	Pack	O N0 1/8
		The number of inner containers, or number of eaches if there are no inner	

		containers, per outer container	
		The number of sellable units/eachs in the Shipping Container if no Packs (inner containers) or number of Packs (inner containers).	
PO402	357	Size	X R 1/8
		Size of supplier units in pack	
PO403	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		AM Ampoule	
		BO Bottle	
		BX Box	
		CA Case	
		CT Carton	
		DS Display	
		DZ Dozen	
		EA Each	
		GS Gross	
		OZ Ounce - Av	
		PC Piece	
		PK Package	
		SP Shelf Package	
		SZ Syringe	
		UN Unit	
		Use UN for pill counts or for partials.	
		VI Vial	
		Use any appropriate code from data element 355, as agreed by the trading partners.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO404	103	Packaging Code	X AN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
		PCS - Pieces	
		This value is related to the number of sellable Eachs/Units in the outer Case/Shipping Container, regardless of Packs or Inner Packs (Case Total) provided in PO4 18.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO405	187	Weight Qualifier	O ID 1/2
		Code defining the type of weight	
		G Gross Weight	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO406	384	Gross Weight per Pack	X R 1/9
		Numeric value of gross weight per pack	
PO407	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		01 Actual Pounds	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO408	385	Gross Volume per Pack	X R 1/9

		Numeric value of gross volume per pack	
PO409	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CC Cubic Centimeter	
		CF Cubic Feet	
		CI Cubic Inches	
		CR Cubic Meter	
		CY Cubic Yard	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO410	82	Length	X R 1/8
		Largest horizontal dimension of an object measured when the object is in the upright position	
PO411	189	Width	X R 1/8
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
PO412	65	Height	X R 1/8
		Vertical dimension of an object measured when the object is in the upright position	
PO413	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CM Centimeter	
		IN Inch	
		MM Millimeter	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO414	810	Inner Pack	O N0 1/6
		The number of eaches per inner container	
		Number of sellable units within the Pack, or the number of Inner Packs (subpacks) within the Packs if exist. If Inner Packs exist, proceed to HL*Q (Inner Pack) level.	
PO418	1470	Number	O N0 1/9
		A generic number	
		Number of sellable Eachs/Units in the outer Case/Shipping Container, regardless of Packs or Inner Packs (Case Total). Example: If a Case has 4 packs, each with 3 inner packs of 10 sellable units, this value of this element would be 120.	

Segment:	MAN Marks and Numbers - PACK LEVEL
Position:	190
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>Example: MAN*GM*00123456789098765432~</p> <p>The MAN segment at the Pack Level is only required when not sending the Tare Level</p>

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88	Marks and Numbers Qualifier	M ID 1/2
			Code specifying the application or source of Marks and Numbers (87)	
			GM SSCC-18 and Application Identifier	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	MAN02	87	Marks and Numbers	M AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
			Must match SSCC-18 number that is sent on shipping label	

Segment: **HL** Hierarchical Level - ITEM LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*5*4*I*0~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
		0 No Subordinate HL Segment in This Hierarchical Structure. Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LIN** Item Identification - ITEM LEVEL
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification
Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: There are a multitude of product identifiers that may be appropriate for your relationship with CVSHealth, please provide all that apply. For instance, UPC/NDC and case UPC are generally used for all products and are considered mandatory and optional/must use respectively. However, for vendors who provide an 832 product catalog, those fields should be provided.
 Example:
 LIN**UI*11234512345*UA*123654987189*PI*109876*VN*123456*VC*PC6789456
 ~

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
LIN01	350	Assigned Identification		O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number		
M	LIN02	235	Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product / Service ID (234) UI UPC (1-5-5), if non-RX item UD UPC/EAN (2-5-5), if non-RX item ND NDC, if RX item		
M	LIN03	234	Product/Service ID	M AN 1/48
		Identifying number for a product or service Align with qualifier in LIN 01: UPC Code (1-5-5) or EAN/UPC Code (2-5-5) if non-RX item NDC if RX		

LIN04	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) If you have provided the Pack Level information please provide case UPC UA U.P.C./EAN Case Code (2-5-5) or UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)
LIN05	234	Product/Service ID	X	AN 1/48	Identifying number for a product or service UPC/EAN case or container code as appropriate, aligned with LIN 02
LIN06	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) PI Purchaser's (CVS Health) Item Number
LIN07	234	Product/Service ID	X	AN 1/48	Identifying number for a product or service CVS Health Item Number
LIN08	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) VN Vendor Item Number
LIN09	234	Product/Service ID	X	AN 1/48	Identifying number for a product or service Vendor's Item Number
LIN10	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) VC Vendor (Seller's) Catalog Number, if different than Vendor Item Number. If provided, must align with any 832/Product Catalog EDI documents sent to CVS Health. Refer to 004010 Data Element Dictionary for acceptable code values.
LIN11	234	Product/Service ID	X	AN 1/48	Identifying number for a product or service Vendor's Catalog Number, if different than Vendor Item Number. Must align with any 832/Product Catalog EDI documents sent to CVS Health.
LIN12	235	Product/Service ID Qualifier	X	ID 2/2	Code identifying the type/source of the descriptive number used in Product/Service ID (234) LT Lot Number - must use for Rx - DSCSA
LIN13	234	Product/Service ID	X	AN 1/48	Identifying number for a product or service Lot Number must use for RX - DSCSA

Segment: **SN1** Item Detail (Shipment) - ITEM LEVEL
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
Comments: 1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: Example: SN1**25*CA*25*50*CA~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SN101	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number, as referenced in LIN01	
M	SN102	382 Number of Units Shipped	M R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set This value should equate to the units shipped, normally cases or eaches.	
M	SN103	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Use any appropriate code from data element 355, as expected by CVSHealth. For most non-RX shipments, 'CA' is preferred in the SN1 segment and the Case Pack and Item information in the following PO4 segment.	
		AM Ampoule BO Bottle BX Box CA Case CT Carton DS Display DZ Dozen EA Each GS Gross OZ Ounce - Avt PC Piece PK Package SP Shelf Package SZ Syringe UN Unit Use UN for pill counts or for partials. VI Vial	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
SN104	646	Quantity Shipped to Date	O R 1/15
		Number of units shipped to date For Partial Orders.	

SN105 330 Quantity Ordered X R 1/15

Quantity ordered

Quantity Ordered on Original CVS Health PO

SN106 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

AM Ampoule

BO Bottle

BX Box

CA Case

CT Carton

DS Display

DZ Dozen

EA Each

GS Gross

OZ Ounce - Av

PC Piece

PK Package

SP Shelf Package

SZ Syringe

UN Unit

Use UN for pill counts or for partials.

VI Vial

Use any appropriate code from data element 355, as agreed by the trading partners

Segment: **PO4** Item Physical Details - ITEM LEVEL

Position: 060

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax Notes:

- 1 If either PO402 or PO403 is present, then the other is required.
- 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- 9 If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

Semantic Notes:

- 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3 PO417 is the ending package identifier in a range of identifiers.
- 4 PO418 is the number of packages in this layer.

Comments:

- 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes:

Examples:

```
PO4*8*8*EA*PCS*G*1.86*OZ*2*CI*4*1.5*1*IN*****96~
PO4*8***PCS*****96~
PO4*12*12*AM*PCS*G*5*OZ*25*CC*12*12*22*MM*****10~
```

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	PO401	356 Pack	O	N0 1/6
		The number of inner containers, or number of eaches if there are no inner containers, per outer container		
		Case Pack (Number of Actual Sellable Eaches)		
	PO402	357 Size	X	R 1/8
		Size of supplier units in pack		
	PO403	355 Unit or Basis for Measurement Code	X	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		AM Ampoule		
		BO Bottle		
		BX Box		
		CA Case		
		CT Carton		

			DS Display DZ Dozen EA Each GS Gross OZ Ounce - Av PC Piece PK Package SP Shelf Package SZ Syringe UN Unit Use UN for pill counts or for partials. VI Vial Use any appropriate code from data element 355, as agreed by the trading partners. Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PO404	103	Packaging Code X AN 3/5 Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required PCS - Pieces This value is related to the number of sellable Eachs/Units in the outer Case/Shipping Container, regardless of Packs or Inner Packs (Case Total) provided in PO4 18. Refer to 004010 Data Element Dictionary for acceptable code values.	
	PO405	187	Weight Qualifier O ID 1/2 Code defining the type of weight G Gross Weight Refer to 004010 Data Element Dictionary for acceptable code values.	
	PO406	384	Gross Weight per Pack X R 1/9 Numeric value of gross weight per pack	
	PO407	355	Unit or Basis for Measurement Code X ID 2/2 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound OZ Ounce Refer to 004010 Data Element Dictionary for acceptable code values.	
	PO408	385	Gross Volume per Pack X R 1/9 Numeric value of gross volume per pack	
	PO409	355	Unit or Basis for Measurement Code X ID 2/2 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CC Cubic Centimeter CF Cubic Feet CI Cubic Inches Refer to 004010 Data Element Dictionary for acceptable code values.	
	PO410	82	Length X R 1/8 Largest horizontal dimension of an object measured when the object is in the upright position	
	PO411	189	Width X R 1/8	

			Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
	PO412	65	Height	X R 1/8
			Vertical dimension of an object measured when the object is in the upright position	
	PO413	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			CM Centimeter	
			IN Inch	
			MM Millimeter	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PO418	1470	Number	O N0 1/9
			A generic number	
			Total number of sellable units on the tare/pallet.	

Segment: **PID** Product/Item Description - ITEM LEVEL

Position: 070

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 200

Purpose: To describe a product or process in coded or free-form format

Syntax Notes:

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

Semantic Notes:

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Notes: Example: PID*F****IBUPROFEN TABLETS 300 MG 70~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PID05	352 Description	X AN 1/80
		A free-form description to clarify the related data elements and their content	
		The description should contain prescription (Rx) drug product information, such as product name, strength, dosage form, and container size.	

Segment: **DTM** Date/Time Reference - ITEM LEVEL
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Must use for DSCSA Compliance, may be used for non-Rx products if appropriate. Should align with the Lot Number provided in LIN segment.

Notes: Only Applicable for Single (homogeneous) SKU Full Case Cartons

Examples:

DTM*036*20140225~

DTM*208*20140225~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		036 Expiration - Use for front store items that have an expiration date	
		If items have an expiration date CVS wants you to use this segment to provide the expiration date.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	DTM02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:

- 1 If either CTT03 or CTT04 is present, then the other is required.
- 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		354	Number of Line Items Total number of line items in the transaction set	M N0 1/6

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

STOI Format

ISA*00* *00* *08*925159KLN0 *ZZ*CVSUAT
*170106*0911*U*00401*000009782*0*P*:
GS*SH*925159KLN0*CVSUAT*20110607*0712*9780*X*004010
ST*856*0001
BSN*00*0004178745*20180106*0750*0001
HL*1**S
TD1*PLT*3****G*720*LB*48*CF
TD5*B*2*RBTW*M*Old Trailway Line
TD3*TL**1234567890
REF*BM*198456
DTM*011*20170130*143233
DTM*067*20170202*091500
N1*SF*PIPER YUMMY Candy*1*036235240
N2*123456789
N3*996 PARAGON WAY
N4*ROCK HILL*SC*29730*US
N1*ST*CVS DISTRIBUTION*54*M101
N2*123456789
N3*500 LANSDOWNE RD
N4*FREDERICKSBRG*VA*22401*US
HL*3*2*T
MAN*GM*00100398005621606302
PAL*6*3*4*12*240*LB*3*4*6*FT*****1
HL*2*1*O
PRF*8475630***20180104
REF*VR*12345
HL*6*5*I
LIN**UI*11234516669*PI*109876*VN*123456*VC*PC6789456
SN1*1*16*EA**16*EA
PO4*16*1.2*OZ*CAS*G*9.6*OZ*.0003*CF*3*.75*.25*IN*****32
PID*F****Big Head YUM YUM Gum, Wintergreen
HL*7*5*I
LIN**UI*11234575861*PI*109877*VN*123457*VC*PC6789460
SN1*1*16*EA**16*EA
PO4*16*1.2*OZ*CAS*G*9.6*OZ*.0003*CF*3*.75*.25*IN*****32
PID*F****Big Head YUM YUM Gum, Cinnamon
HL*11*10*I
LIN**UI*89234513312*PI*109876*VN*123456*VC*PC6789456
SN1*1*16*EA**16*EA
PO4*16*1.2*OZ*CAS*G*9.6*OZ*.0003*CF*3*.75*.25*IN*****24
PID*F****Big Head YUM YUM Gum, Wintergreen

HL*12*10*I
LIN**UI*71234514451*PI*109877*VN*123457*VC*PC6789460
SN1*1*16*EA**16*EA
PO4*16*1.2*OZ*CAS*G*9.6*OZ*.0003*CF*3*.75*.25*IN*****12
PID*F****Big Head YUM YUM Gum, Cinnamon
CTT*17
SE*99*0001
GE*1*9780
IEA*1*000009782

SOTI Format

ISA*00* *00* *12*5618635410 *ZZ*CVSUAT
*180821*1544*U*00401*000003141*0*T*>~
GS*SH*5618635410*CVSUAT*20180821*1544*3141*X*004010~
ST*856*0001~
BSN*00*RJW1808SDH00001024*20180821*1522*0001~
HL*1**S*1~
TD1*CTN25*0****G*6901.65*LB*107.01*CF~
TD5*B*2*RJWI*M*RJW TRANSPORT~
TD3*CN**9616193~
REF*BM*1247112-1~
REF*CN*2058426~
REF*2I*1247112-1~
DTM*011*20180817~
DTM*067*20180827~
DTM*068*20180817~
FOB*PP*OR*Lockport IL*02*FOB~
N1*ST*CVS/Caremark Corp*9*F101~
N2*CVS/Caremark Corp~
N3*2577 98TH AVENUE~
N4*VERO BEACH*FL*32966*US~
N1*SF*RJW Transport*1*091687371~
N2*SlimFast~
N3*14908 S Gougar Road ~
N4*Lockport*IL*60491*US~
PER*SD*Order Management*TE*561-231-6577*EM*sales-orders@slimfast.com~
PER*EA*Rob MacFarlane*TE*5612316568*EM*EDI@slimfast.com~
PER*CN*Order Management*TE*561-953-9489*EM*sales-orders@slimfast.com~
N1*VN*JOE'S CANDY CORPORATION*1*079490154~
N3*11780 U.S. Highway One Suite 400N~

N4*Palm Beach Gardens*FL*33408~
N1*SH*RJW Transport*1*091687371~
N3*14908 S Gougar Road~
N4*Lockport*IL*60491~
HL*2*1*O*1~
PRF*9616193***20180810~
TD1*PLT*0****G*6901.65*LB*107.01*CF~
REF*VN*32435~
REF*IV*DIR087025~
N1*BY*CVS/Caremark Corp*UL*F101~
HL*3*2*T*1~
MAN*AI*0000000000000059312~
PAL*6*2*2*259*1725.41*LB*****1~
HL*4*3*I*0~
LIN*3*BP*966101*VN*74008*UI*00834674008~
SN1*3*126*CA*126*CA~
PO4**3*EA**G*3.5*LB*0.41*CF*4.87*4.92*7.05*IN*****378~
PID*F****SF RTD Adv Milk Choc 3/4PK~
HL*5*3*I*0~
LIN*4*BP*259672*VN*74012*UI*00834674012~
SN1*4*42*CA*42*CA~
PO4**3*EA**G*3.5*LB*0.41*CF*4.87*4.92*7.05*IN*****126~
PID*F****SF RTD Adv Straw & Crm 3/4PK~
HL*6*3*I*0~
LIN*5*BP*252895*VN*74050*UI*00834674050~
SN1*5*42*CA*42*CA~
PO4**3*EA**G*3.5*LB*0.41*CF*4.87*4.92*7.05*IN*****126~
PID*F****SF Adv RTD ENERGY Mocha 3 4pk~
HL*7*3*I*0~
LIN*6*BP*966085*VN*79001*UI*00834679001~
SN1*6*49*CA*49*CA~
PO4**2*EA**G*1.95*LB*0.41*CF*4.00*4.00*6.25*IN*****98~
PID*F****SF PWD Adv Choc 2/11.01oz~
CTT*2~SE*61*0001~GE*1*3141~IEA*1*000003141~

SOPI Format

ISA*00* *00* *12*6318428802 *ZZ*CVSUAT
*181126*1051*U*00401*000000039*0*P*>
GS*SH*6318428802*CVSUAT*20181126*1051*39*X*004010
ST*856*390001
BSN*00*000028892*20181126*1051*0001

HL*1**S*1
TD1*PLT*1****G*40*LB*0*CF
TD5*B*2*COMM*M*COMM
TD3*TL**123456789
REF*BM*07643020000288923
REF*CN*TEST123
DTM*011*20180815
DTM*067*20180815
FOB*PP*OR*KANSAS CITY MO 11735
N1*ST*CVS DC K101*54*K101
N3*10711 NORTH CONGRESS AVENUE
N4*KANSAS CITY*MO*64153*US
N1*SF*FG 1 ADAMS*1*832783430
N3*1 Adams Blvd*Farmingdale, NY
N4*Farmingdale*NY*11735*US
PER*EA*ERIKA LUNN*TE*6315208034*EM*ERAMIREZ@FG1ADAMS.COM
HL*2*1*O*1
PRF*0473117***20180801
TD1*CAS*5****G*40*LB*0*CF
REF*VN*30697
HL*3*2*P*1
LIN*0*UA*10764302270406*UI*764302270409*VC*ABS0-SMO-5OZ-24
SN1*0*1*CA*1*5*CA
PO4*24*1*EA*PCS*G*8*LB*****4****24
MAN*GM*00007643020023703991
HL*4*3*I*0
LIN*1*UI*764302270409*UA*10764302270406*PI*929127*VN*ABS0-SMO-5OZ-24*VC*ABS0-SMO-5OZ-24
SN1*1*1*CA*1*5*CA
PO4*24*1*CA*PCS*****4****24
PID*F****AB FIRST AID SOAP 5OZ CS
HL*5*2*P*1
LIN*1*UA*10764302270406*UI*764302270409*VC*ABS0-SMO-5OZ-24
SN1*1*1*CA*1*5*CA
PO4*24*1*EA*PCS*G*8*LB*****4****24
MAN*GM*00007643020023704004
HL*6*5*I*0
LIN*2*UI*764302270409*UA*10764302270406*PI*929127*VN*ABS0-SMO-5OZ-24*VC*ABS0-SMO-5OZ-24
SN1*2*1*CA*1*5*CA
PO4*24*1*CA*PCS*****4****24
PID*F****AB FIRST AID SOAP 5OZ CS
HL*7*2*P*1

LIN*2*UA*10764302270406*UI*764302270409*VC*ABS0-SMO-5OZ-24
SN1*2*1*CA*1*5*CA
PO4*24*1*EA*PCS*G*8*LB*****4****24
MAN*GM*00007643020023704011
HL*8*7*I*0
LIN*3*UI*764302270409*UA*10764302270406*PI*929127*VN*ABS0-SMO-5OZ-24*VC*ABS0-SMO-5OZ-24
SN1*3*1*CA*1*5*CA
PO4*24*1*CA*PCS*****4****24
PID*F****AB FIRST AID SOAP 5OZ CS
HL*9*2*P*1
LIN*3*UA*10764302270406*UI*764302270409*VC*ABS0-SMO-5OZ-24
SN1*3*1*CA*1*5*CA
PO4*24*1*EA*PCS*G*8*LB*****4****24
MAN*GM*00007643020023704028
HL*10*9*I*0
LIN*4*UI*764302270409*UA*10764302270406*PI*929127*VN*ABS0-SMO-5OZ-24*VC*ABS0-SMO-5OZ-24
SN1*4*1*CA*1*5*CA
PO4*24*1*CA*PCS*****4****24
PID*F****AB FIRST AID SOAP 5OZ CS
HL*11*2*P*1
LIN*4*UA*10764302270406*UI*764302270409*VC*ABS0-SMO-5OZ-24
SN1*4*1*CA*1*5*CA
PO4*24*1*EA*PCS*G*8*LB*****4****24
MAN*GM*00007643020023704035
HL*12*11*I*0
LIN*5*UI*764302270409*UA*10764302270406*PI*929127*VN*ABS0-SMO-5OZ-24*VC*ABS0-SMO-5OZ-24
SN1*5*1*CA*1*5*CA
PO4*24*1*CA*PCS*****4****24
PID*F****AB FIRST AID SOAP 5OZ CS
CTT*12
SE*74*390001
GE*1*39
IEA*1*000000039

SOTPI Format

ISA*00* *00* *12*4154546662 *ZZ*CVSUAT
*180905*1602*U*00401*000000005*0*T*^
GS*SH*4154546662*CVSUAT*20180905*1602*5*X*004010
ST*856*5001
BSN*00* 11113*20180905*120000*0001
HL*1**S
TD1*PLT*1****G*100*LB*48*CF
TD5*B*2*ODFL*M*ODFL
TD3*TL**999999
REF*BM*270175650
DTM*011*20180905
DTM*067*20180910
FOB*PP*OR*AT DOCK*02*FOB
N1*ST*CVS*54*Y101
N2*123456789
N3*ONE CVS DRIVE
N4*WAVERLY*NY*14892
N1*SF*UXLOCAL*92*33099
N2*123456789
N3*2420 CAMINO RAMON STREET
N4*SAN RAMON*CA*94583
PER*EA*Ken Perry*TE*8606230004*EM* ken@uxlocal.com
HL*2*1*O
PRF*0083526***20180625
TD1*CTN*12****G*80*LB*1*CF
REF*IV*IN123456*Invoice Number
HL*3*2*T
REF*SE*123456789
MAN*GM*00106394280000766242
PAL*6*3*4*12*240*LB
HL*4*3*P
LIN**UA*05042852195*UI*05042852195*VC*2195
SN1**12*CA
PO4*12*1*OZ*PCS*G*12*01*3*CF*20*10*10*IN*24*****96
REF*SE*123456789
MAN*UC*20639428592039
HL*5*4*I
LIN**UA*05042852195*UI*05042852195*PI*614099*VN*2195
SN1*1*1*CA*0*1*CA
PO4*12*1*OZ*PCS*G*12*OZ*3*CF*20*10*10*IN*****96
PID*F****Test line 1

REF*SE*123456789
N1*MF*JAPONESQUE*9*1234567890000
N2*123456789
N3*2420 CAMINO RAMON STREET
N4*SAN RAMON*CA*94583
HL*6*3*P
LIN**UA*05042853087*UI*05042853087*VC*3087
SN1**1*CA
PO4*12*1*OZ*PCS*G*12*01*3*CF*20*10*10*IN*24****96
REF*SE*123456789
MAN*UC*20639428592046
HL*7*6*I
LIN**UA*05042853087*UI*05042853087*PI*613349*VN*3087
SN1*2*1*CA*0*1*CA
PO4*12*1*OZ*PCS*G*12*OZ*3*CF*20*10*10*IN****96
PID*F****Test line 2
REF*SE*123456789
N1*MF*JAPONESQUE*9*1234567890000
N2*123456789
N3*2420 CAMINO RAMON STREET
N4*SAN RAMON*CA*94583
CTT*7
SE*66*5001
GE*1*5
IEA*1*000000005