856 Advance Ship Notice

ANSI X12-4010
Supplier Implementation Guide
Document Version 3
January 2024

CVS Health has initiated an ASN mandate for all suppliers sending shipments into our DCs. It is important that your organization build and maintain an 856/ASN document compliant with this specification as non-compliant ASNs will be subject to penalties. We issue 997 FA as accepted/rejected and utilize the 824 Application Advice for errors and missing segments.

Please direct any questions or to coordinate testing with CVS Health EDI/B2B at EDI_ASN_Onboarding@CVSHealth.com

Mandatory segments

Change Log:

HL	Reference	Name	Old	New
Shipment	TD106 + TD107 + TD108	WEIGHT	OPTIONAL	MUST USE
	TD109 + TD110	CUBE	OPTIONAL	MUST USE
	REF01	REFERENCE	MUST USE (ANY)	MUST USE ('BM') 'CN' OPTIONAL
	PER01 + PER05 + PER06	ADMIN CONTACT	NOT USED	M-MANDATORY
N1*ST Loop	N104	CVS WHSE CODE	2/80	4/9
Item	LIN06	PRODUCT QUAL	OPTIONAL	MUST USE ('PI')
	LIN07	CVS SKU	OPTIONAL	MUST USE
	PID	PROD. DESC.	OPTIONAL	MUST USE
	DTM*** (see note)	EXPIRATION	OPTIONAL	MUST USE***

Notes:

- 'M' and 'Must Use' are used synonymously. These elements must all be present.
- ***DTM – Date of Expiration***
    - If your product does not expire, you are exempt from providing an expiration date.
        - Do not add this field, do not add a dummy date.

Other amendments

- Added ASN formatting examples starting pg.43-45

General clarifications

- Any and all changes must be confirmed through EDI_ASN_Onboarding@CVSHealth.com
    - Format
    - New/Change to ISA ID
    - Changes to EDI providers

- Acceptable Formats
    - Pallets/Tare
        - S-O-T-P-I or S-T-O-P-I
        - S-O-T-I or S-T-O-I
    - Non-Pallet/Small Parcel
        - S-O-P-I
    - In adherence to the routing guide
        - 2 Pallet labels per pallet
        - 1 Carton label per carton

- Segment separators should use the asterisk *
- Line terminators should use the tilde ~
- CVS Qualifier and ISA-GS ID:
    - ZZ/CVS856ASN-CVS856ASN

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:

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

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level - SHIPMENT LEVEL	M	1		c1
M	110	TD1	Carrier Details (Quantity and Weight) - SHIPMENT LEVEL	M	>1		
M	120	TD5	Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL	M	>1		
	130	TD3	Carrier Details (Equipment) - SHIPMENT LEVEL	O	>1		
M	150	REF	Reference Identification - SHIPMENT LEVEL	M	>1		
M	200	DTM	Date/Time Reference - SHIPMENT LEVEL	M	>1		
M	210	FOB	F.O.B. Related Instructions	M	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		
Must Use	270	PER	Administrative Communications Contact - SHIPMENT LEVEL	O	3		
			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		
M	050	PRF	Purchase Order Reference - ORDER LEVEL	M	>1		
M	150	REF	Reference Identification - ORDER LEVEL	M	>1		
M	010	HL	Hierarchical Level - TARE LEVEL (If	M	>1		

			Shipping Pallets)		
M	190	MAN	Marks and Numbers - TARE LEVEL	M	>1
	215	PAL	Pallet Information - TARE LEVEL	O	1
M	010	HL	Hierarchical Level - PACK LEVEL	M	1
	020	LIN	Item Identification - PACK LEVEL	O	1
M	190	MAN	Marks and Numbers - PACK LEVEL	M	>1
M	010	HL	Hierarchical Level - ITEM LEVEL	M	1
M	020	LIN	Item Identification - ITEM LEVEL	M	1
M	030	SN1	Item Detail (Shipment) - ITEM LEVEL	M	1
Must Use	060	PO4	Item Physical Details - ITEM LEVEL	O	1
Must Use	070	PID	Product/Item Description - ITEM LEVEL	O	200
Must Use	200	DTM	Date/Time Reference - ITEM LEVEL	O	10

Summary:

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

Transaction Set Notes

1. 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

1. 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

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set	**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. Des.	Data Element	Name	Attributes	
M	**BSN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original	**M**	**ID 2/2**
M	**BSN02**	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment BOL – Bill of Lading Number	**M**	**AN 2/30**
Must Use	**BSN03**	**373**	**Date** Date expressed as CCYYMMDD Document create date	**O**	**DT 8/8**
Must Use	**BSN04**	**337**	**Time** 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)	**O**	**TM 4/8**
	BSN05	**1005**	**Hierarchical Structure Code** 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)	**O**	**ID 4/4**

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. Des.	Data Element	Name	Attributes	
M	**HL01**	**628**	**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	**734**	**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**	**735**	**Hierarchical Level Code**	**M**	**ID 1/2**
			Code defining the characteristic of a level in a hierarchical structure		
			S Shipment		
	HL04	**736**	**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		

Segment: **TD1** **Carrier Details (Quantity and Weight) - SHIPMENT LEVEL**
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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. Des.	Data Element	Name	Attributes	
Must Use	**TD101**	**103**	**Packaging Code** 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 CTN Carton count when small parcel PLT Pallet count when LTL / TL	**O**	**AN 3/5**
Must Use	**TD102**	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity expressed as a whole number (no decimals).	**X**	**N0 1/7**
Must Use	**TD106**	**187**	**Weight Qualifier** Code defining the type of weight G Gross Weight	**O**	**ID 1/2**
Must Use	**TD107**	**81**	**Weight** Numeric value of weight	**X**	**R 1/10**
Must Use	**TD108**	**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 Pound	**X**	**ID 2/2**
Must Use	**TD109**	**183**	**Volume** Value of volumetric measure	**X**	**R 1/8**
Must Use	**TD110**	**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 CF Cubic Feet Only	**X**	**ID 2/2**

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL**
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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*ODFL*M*Old Dominion Freight Line~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	TD501	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement B Origin Carrier (Any)	**O**	**ID 1/2**
	TD502	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	**X**	**ID 1/2**
Must Use	**TD503**	**67**	**Identification Code** Code identifying a party or other code Standard Carrier Abbreviation Code (SCAC)	**X**	**AN 2/80**
Must Use	**TD504**	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment M Motor (Common Carrier) SR Supplier Truck U Private Parcel Service	**X**	**ID 1/2**
	TD505	**387**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity Carrier's Identity	**X**	**AN 1/35**

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. Des.	Data Element	Name	Attributes
TD301	**40**	**Equipment Description Code** 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	**X ID 2/2**
TD303	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) Trailer Number / Air Bill Number	**X AN 1/10**

Segment: **REF** **Reference Identification - SHIPMENT LEVEL**
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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. The Bill of Lading Number is mandatory. A Carrier Reference Number (PRO/Invoice) may also be provided optionally.

Example:

REF*BM*78954132~ ('BM' – Mandatory)
REF*CN*14783516~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BM Mandatory - Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice) - If Applicable	**M**	**ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Bill of Lading Number, when REF01 = BM Carrier's Reference Number, when REF01 = CN (Optional)	**X**	**AN 1/30**

Segment: **DTM** **Date/Time Reference - SHIPMENT LEVEL**
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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 must be provided in two reoccurring DTM segments.

Example:
DTM*011*20221230~
DTM*067*20230105~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 011 Date Shipped (Actual) 067 Current Scheduled Delivery Date or STA Date	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**
	DTM03	**337**	**Time** 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	**X**	**TM 4/8**

Segment: **FOB** **F.O.B. Related Instructions**
Position: 210
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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. Des.	Data Element	Name	Attributes	
M	**FOB01**	**146**	**Shipment Method of Payment** Code identifying payment terms for transportation charges CC Collect PP Prepaid (By Seller) PB Customer Pickup/Backhaul	**M**	**ID 2/2**
	FOB02	**309**	**Location Qualifier** Code identifying type of location OR Origin (Shipping Point) PS 5-Digit US Zip Code PU 6-Digit Canadian Postal Code	**X**	**ID 1/2**
	FOB03	**352**	**Description** 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"	**O**	**AN 1/80**
	FOB04	**334**	**Transportation Terms Qualifier Code** Code identifying the source of the transportation terms 02 Trade Terms	**O**	**ID 2/2**
	FOB05	**335**	**Transportation Terms Code** Code identifying the trade terms which apply to the shipment transportation responsibility FOB Free on Board	**X**	**ID 3/3**

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: **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: Consider this a mandatory segment which must be sent.

The Ship From location information should be the DEA number for Rx products. For Non-RX, DUNS Number (or DUNS +4) should be used.

Example:
N1*SF*BRICKS & MORTAR CO*9*0309999234569~
N1*SF*COGEN PHARMA*11*ZZ3897564~

Ship From N1-N2-N3-N4

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SF Ship From	**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) 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)	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** 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. The DUNS is required for our logistics partner, Descartes	**X AN 2/80**

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

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N301**	**166**	**Address Information** Address information	**O 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

	Ref. Des.	Data Element	Name	Attributes	
	N401	**19**	**City Name** Free-form text for city name	**O**	**AN 2/30**
	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: **PER** **Administrative Communications Contact - SHIPMENT LEVEL**
Position: 270
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Contact information is Required for Shipping, EDI and a general Business contact.
Up to 3 recurring PER segments can be provided, Only EA is mandatory.

Example:
PER*EA*EDI SUPPORT*TE*18003217654*EM*EDISUPPORT@SUPPLIER.COM~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named CN General Contact EA EDI Coordinator SD Shipping Department	**M**	**ID 2/2**
	PER02	**93**	**Name** Free-form name	**O**	**AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X**	**ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable A valid telephone number must be provided.	**X**	**AN 1/80**
Must Use	**PER05**	**365**	**Communication Number Qualifier** Code identifying the type of communication number EM Electronic Mail	**X**	**ID 2/2**
Must Use	**PER06**	**364**	**Communication Number** Complete communications number including country or area code when applicable Group EDI mailbox preferred	**X**	**AN 1/80**

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).

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 To: N1-N2-N3-N4

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property, or an individual ST Ship To	**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) 11 Drug Enforcement Administration (DEA) 54 Warehouse Number	**X**	**ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code DEA Number or CVS Warehouse, per the (850 N104) 54 - Warehouse Code 11 - DEA for RX Suppliers Please refer to cvssuppliers.com Distribution Center ID Table for the warehouse codes and DEA numbers following the link below: https://cvssuppliers.com/sites/launch/files/2021-10/Distribution%20Center%20ID%20XREF%C2%A0.pdf	**X**	**AN 4/9**

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

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N301**	**166**	**Address Information** Address information	**O 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

	Ref. Des.	Data Element	Name	Attributes	
	N401	**19**	**City Name** Free-form text for city name	**O**	**AN 2/30**
	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. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**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	**734**	**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**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure O Order	**M ID 1/2**
	HL04	**736**	**Hierarchical Child Code** 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	**O ID 1/1**

Segment: **PRF** **Purchase Order Reference - ORDER LEVEL**
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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.

Examples:
PRF*1234567***20220130~
PRF*0123456***20220130~
PRF*0012345***20220130~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PRF01**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser Original Purchase Order Number (7-digit numerical only) 850 – BEG03	**M**	**AN 1/22**
	PRF02	**328**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	**O**	**AN 1/30**
M	**PRF04**	**373**	**Date** Date expressed as CCYYMMDD Original Purchase Order Date (850 – BEG05)	**O**	**DT 8/8**

Segment: **REF** **Reference Identification - ORDER LEVEL**
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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 found on PO

Example: REF*VN*39999
Example: REF*VR*19999

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification VN or VR CVS Vendor Number 850 – REF02	**M ID 2/3**
Must Use	**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 850 – REF03	**O AN 1/30**

Segment: **HL** **Hierarchical Level - TARE LEVEL (If Shipping Pallets)**
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. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**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	**734**	**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**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure T Shipping Tare - Mandatory for Shipping Pallets	**M ID 1/2**
	HL04	**736**	**Hierarchical Child Code** 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	**O ID 1/1**

Segment: **MAN** **Marks and Numbers - TARE LEVEL**
Position: 190
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
1 If either MAN04 or MAN05 is present, then the other is required.
2 If MAN06 is present, then MAN05 is required.
Semantic Notes:
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:
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: Semantic Notes:
MAN segment should only contain numbers used for logistical purposes [to track containers].

Example: MAN*GM*03094400000000045~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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 Routing Guide: https://cvssuppliers.com/sites/launch/files/2021-10/CVS%20Routing%20Guide%20Instructions%20-%20version%2067.pdf	
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	**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**
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	**X R 1/8**

		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		
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		

Segment: **HL** **Hierarchical Level - PACK 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 - Only if using SOPI format
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. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**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	**734**	**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**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure P Pack - Mandatory if case only (no pallets) - Used for SOPI format	**M ID 1/2**
	HL04	**736**	**Hierarchical Child Code** 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	**O ID 1/1**

Segment: **LIN** **Item Identification - PACK LEVEL**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional
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: Case could be a homogeneous sku, full case or heterogeneous master pack

Example UPC: LIN**UA*121234512345*UI*11234512345*VC*AC25978~

Example RX Order: LIN**UA*121234512345*ND*556677895*VC*4456633213~

Example Master Pack: LIN**UA*121234512345~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** 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)	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service UPC/EAN case or container code as appropriate, aligned with LIN 02	**M**	**AN 1/48**
	LIN04	**235**	**Product/Service ID Qualifier** 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	**X**	**ID 2/2**

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		
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.)		
LIN09	**234**	**Product/Service ID**	**X**	**AN 1/48**
		Identifying number for a product or service		
		Product Lot Number		

Segment:	**MAN** **Marks and Numbers - PACK LEVEL**
Position:	190
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	**1** If either MAN04 or MAN05 is present, then the other is required. **2** If MAN06 is present, then MAN05 is required.
Semantic Notes:	**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:	**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:	Example: MAN*GM*00123456789098765432~ The MAN segment at the Pack Level is only required when not sending the Tare Level

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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	
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. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**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	**734**	**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**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure I Item	**M ID 1/2**
	HL04	**736**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described 0 No Subordinate HL Segment in This Hierarchical Structure.	**O ID 1/1**

Segment: **LIN** **Item Identification - ITEM LEVEL**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
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*PC123456~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product / Service ID (234) Made to match 850 segment PO106 UI U.P.C. (1-5-5), if non-RX item UD U.P.C./EAN (2-5-5), if non-RX item ND NDC, if RX item PI CVS SKU	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service Made to match 850 segment PO107 UPC Code (1-5-5) or EAN/UPC Code (2-5-5) if non-RX item NDC if RX	**M**	**AN 1/48**
	LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	**X**	**ID 2/2**

			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** Identifying number for a product or service UPC/EAN case or container code as appropriate, aligned with LIN 02	**X**	**AN 1/48**
Must Use	**LIN06**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234) Made to match 850 segment PO110 PI Purchaser's (CVS Health) Item Number	**X**	**ID 2/2**
Must Use	**LIN07**	**234**	**Product/Service ID** Identifying number for a product or service Made to match 850 segment PO111 CVS Health Item Number (SKU)	**X**	**AN 1/48**
	LIN08	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/ Service ID (234) VN Vendor Item Number	**X**	**ID 2/2**
	LIN09	**234**	**Product/Service ID** Identifying number for a product or service Vendor's Item Number	**X**	**AN 1/48**
	LIN10	**235**	**Product/Service ID Qualifier** 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.	**X**	**ID 2/2**
	LIN11	**234**	**Product/Service ID** 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.	**X**	**AN 1/48**
Must Use	**LIN12**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) LT Lot Number - must use for Rx - DSCSA	**X**	**ID 2/2**
Must Use	**LIN13**	**234**	**Product/Service ID** Identifying number for a product or service Lot Number must use for RX - DSCSA	**X**	**AN 1/48**

Segment:	**SN1** **Item Detail (Shipment) - ITEM LEVEL**
Position:	030
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
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. Des.	Data Element	Name	Attributes	
	SN101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number, as referenced in LIN01	**O**	**AN 1/20**
M	**SN102**	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set Units shipped, normally represented in CA-Cases Imperative that this is accurate to what is on the shipment.	**M**	**R 1/10**
M	**SN103**	**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 Use any appropriate code from data element 355, as expected by CVSHealth. For most non-RX shipments, 'CA' is preferred in the SN1 segment. CA Case EA Each PC Piece PK Pack Made to Match the 850 segment PO103	**M**	**ID 2/2**
	SN104	**646**	**Quantity Shipped to Date** Number of units shipped to date For Partial Orders.	**O**	**R 1/15**
	SN105	**330**	**Quantity Ordered** Quantity ordered Quantity Ordered on Original CVS Health PO	**X**	**R 1/15**
	SN106	**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 CA Case DZ Dozen EA Each PC Piece SP Shelf Package - used for RX only PK Pack	**X**	**ID 2/2**

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~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PO401**	**356**	**Pack** 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) Displays should be CA - Pack of 1 Made to Match the 850 segment PO401 If the 850 PO401 does not exist, default case pack to 1	**O N0 1/6**
	PO402	**357**	**Size** Size of supplier units in pack	**X R 1/8**

	PO403	**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 CA Case EA Each PC Piece	**X**	**ID 2/2**
Must Use	**PO404**	**103**	**Packaging Code** 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	**X**	**AN 3/5**
	PO405	**187**	**Weight Qualifier** Code defining the type of weight G Gross Weight	**O**	**ID 1/2**
	PO406	**384**	**Gross Weight per Pack** Numeric value of gross weight per pack	**X**	**R 1/9**
	PO407	**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 Pound OZ Ounce	**X**	**ID 2/2**
	PO408	**385**	**Gross Volume per Pack** Numeric value of gross volume per pack	**X**	**R 1/9**
	PO409	**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 CC Cubic Centimeter CF Cubic Feet CI Cubic Inches	**X**	**ID 2/2**
	PO410	**82**	**Length** Largest horizontal dimension of an object measured when the object is in the upright position	**X**	**R 1/8**
	PO411	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position	**X**	**R 1/8**
	PO412	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position	**X**	**R 1/8**
	PO413	**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 CM Centimeter IN Inch MM Millimeter	**X**	**ID 2/2**
	PO414	**810**	**Inner Pack** The number of eaches per inner container Number of inner packs. Not recommended for use!!!!	**O**	**N0 1/6**

Must Use	**PO418**	**1470**	**Number**		**O**	**N0 1/9**
			A generic number			
			Total number of sellable units on the tare/pallet. When SN103 is EA or PC, then PO418 = SN102 When SN103 is CA, if PO414 is null, then PO418 = SN102 * PO401 When SN103 is CA, if PO414 is not null, then PO418 = SN102 * PO401 * PO414 When SN103 is DZ, then PO418 = SN102 * 12			

Segment: **PID** **Product/Item Description - ITEM LEVEL**
Position: 070
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
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: Examples:
PID*F****GENERIC TABLETS 300 MG 70~
PID*F****PAPER 8X10 6CT~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description F Free-form	**M ID 1/1**
Must Use	**PID05**	**352**	**Description** A free-form description to clarify the related data elements and their content The description should contain product information, such as product name and container size.	**X AN 1/80**

Segment: **DTM** **Date/Time Reference - ITEM LEVEL**
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
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. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 036 Expiration 208 Rx qualifier	**O**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

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

	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**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

	Ref. Des.	Data Element	Name	Attributes
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**

850 to ASN Map (Highlighted fields should map over to the ASN)

ST*850*0001
BEG*00*SA*1234567**20240101
REF*VR*18234
PER*BD*BUYER
ITD*01*15*2**25**26***100
DTM*002*20240115
AMT*BAP*1234
N9*L1*PO COMMENTS
MSG*THIS PO SUBJECT TO THE TERMS AND CONDITIONS FOUND ON CVS SUPPLIERS WEBSITE
N1*ST**54*Y101
N3*ONE CVS DRIVE
N4*WAVERLY*NY*14892
PO1**24*CA*123.45**UI*03600054321*UA*003600012345*PI*654321
PAM*01*2962.8*ZZ
PO4*4
CTT*1*24
SE*18*0001

	Original 850 Purchase Order	**ASN Level**	**ASN Segment**
STA Date	DTM02	Shipment	DTM02
Warehouse Code	N103 N104	Shipment (N1*ST)	N103 N104
CVS Address	N301 N401*N402*N403	Shipment (N3*ST) Shipment (N4*ST)	N301 N401*N402*N403
PO + PO Date	BEG03**BEG05	Order	PRF01***PRF04
Vendor Number	REF01*REF02	Order	REF01*REF02
UOM (Unit of Measure)	PO103	Item	SN103
UPC + SKU	PO106*07*08*09*10*11 If UA*Case UPC is not present, leave fields empty See Below (alternate 850 example)	Item	LIN02*03*04*05*06*07
Case Pack	PO401 If PO4 does not exist, default value to '1'	Item	PO401

Alternate PO Example:

PO1**24*CA*123.45**PI*654321***PI*654321
PAM*01*2962.8*ZZ
CTT*1*24
SE*18*0001

Expected ASN return:

HL*4*3*I
LIN*1*PI*654321***PI*654321
SN1**24*CA
PO4*1***PCS**********24

S-O-P-I formatting / Small Parcel – No Pallet

```
ISA*00*          *00*          *ZZ*12345ABC       *ZZ*CVS856ASN     *210601*1909*U*00401*100001624*0*P*}~
GS*SH*12345ABC*CVS856ASN*20210601*1909*2624*X*004010~
ST*856*2624~
BSN*00*1703*20210601*1319*0001~
HL*1**S~
TD1*CTN*3****G*50*LB*3*CF~
TD5*B*2*FDEG*M~
REF*BM*514973374342~
REF*CN*47029~
DTM*011*20210601*1300~
DTM*067*20210604*1300~
FOB*PP*~
N1*SF*SUPPLIER*9*0123498760000~
N3*ADDRESS~
N4*OGDEN*UT*84404~
PER*EA*EDI SUPPORT*TE*000-000-0000*EM*EDICONTACT@SUPPLIER.COM~
N1*ST*CVS*54*L101~
N3*777 SOUTH HARBOR BLVD~
N4*LA HABRA*CA*90631~
HL*2*1*O~
PRF*1234567***20210524~
REF*VR*12345~
HL*3*2*P~
LIN**UA*81640102496~
MAN*GM*00000348630005459922~      (Carton Label)
HL*4*3*I~
LIN**UI*12345678996*UA*81640102496*PI*123456~
SN1**1*CA~
PO4*6***PCS**********6~
PID*F****ITEM DESCRIPTION~
DTM*036*20230801~
HL*5*2*P~
LIN**UA*81640102220~
MAN*GM*00000348630005459939~      (Carton Label)
HL*6*5*I~
LIN**UI*98765432120*UA*81640102220*PI*695988~
SN1**2*CA~
PO4*10***PCS**********20~
PID*F****ITEM DESCRIPTION~
DTM*036*20230801~
CTT*6~
SE*40*2624~
GE*1*2624~
IEA*1*100001624~
```

S-O-T-I formatting / TL & LTL - Pallets

```
ISA*00*          *00*          *ZZ*ISA12345 *ZZ*CVS856ASN *201221*1653*U*00401*100001234*0*P*>~
GS*SH*ISA12345*CVS856ASN*20201221*1653*100001234*X*004010~
ST*856*062730001~
BSN*00*8367131015*20201221*1653*0001~
HL*1**S~
TD1*PLT*2****G*1399.94*LB*1728*CF~
TD5*B*2*AOIE*M~
TD3*TL**T809537023~
REF*BM*8367112345~
REF*CN*537512345~
DTM*011*20201221~
DTM*067*20201229~
FOB*PP~
N1*SF*SUPPLIER*9*0123451234567~
N3*ADDRESS~
N4*Town*TX*12345*US~
PER*CN*EEDI SUPPORT*TE*000-000-0000*EM*EDICONTACT@SUPPLIER.COM~
N1*ST*CVS DC*54*E101~
N3*700 Cvs Dr~
N4*Ennis*TX*75119*US~
HL*2*1*O~
PRF*1234567***20201202~
REF*VN*12345~
HL*3*2*T~
MAN*GM*00376130352731246926~      (Pallet Label)
HL*4*3*I~
LIN**UI*03400004321*UA*003400001234*PI*291234
SN1**24*CA~
PO4*12***PCS**********288~
PID*F****ITEM DESCRIPTION~
DTM*036*20220630~
HL*5*2*T~
MAN*GM*00376130352806265791~      (Pallet Label)
HL*6*5*I~
LIN**UI*03400005432*UA*003400002345*PI*292345
SN1**12*CA~
PO4*24***PCS**********288~
PID*F****ITEM DESCRIPTION~
DTM*036*20220630~
HL*7*5*I~
LIN**UI*03400009876*UA*003400006789*PI*296789
SN1**12*CA~
PO4*12***PCS**********144~
PID*F****ITEM DESCRIPTION~
DTM*036*20220630~
CTT*4~
SE*48*062730001~
GE*1*100001234~
IEA*1*100001234~
```