

Belk Guidelines for 4030VICS**856 Ship Notice/Manifest****Functional Group ID=SH****Introduction:**

This Draft Standard for Trial Use 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.

Notes:

Following this complete VICS convention and implementation guideline, find the profile describing its use in Canada.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	0100	ST	Transaction Set Header	M		1	
Must Use	0200	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	
Must Use	0100	HL	Hierarchical Level	M	1		
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
Must Use	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Must Use	1500	REF	Reference Identification	O	>1		
Must Use	2000	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			200	
Must Use	2200	N1	Name	O	1		
Must Use	2500	N4	Geographic Location	O	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	
Must Use	0100	HL	Hierarchical Level	M	1		n1
Must Use	0500	PRF	Purchase Order Reference	O	1		
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Must Use	1500	REF	Reference Identification	O	>1		
			LOOP ID - N1			200	
Must Use	2200	N1	Name	O	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	
Must Use	0100	HL	Hierarchical Level	M	1		
	0600	PO4	Item Physical Details	O	1		

1000	PKG	Marking, Packaging, Loading	O	25
1900	MAN	Marks and Numbers	O	>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	
Must Use	0100	HL	Hierarchical Level	M	1		
Must Use	0200	LIN	Item Identification	O	1		
Must Use	0300	SN1	Item Detail (Shipment)	O	1		
	0400	SLN	Subline Item Detail	O	1000		

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>
Must Use	0100	CTT	Transaction Totals	O	1		
Must Use	0200	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.

Segment: *ST* Transaction Set Header**Position:** 0100**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).
 - 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Comments:**Data Element Summary**

Ref.	Data	Attributes
Des.	ElementName	
Must Use	ST01 143 Transaction Set Identifier Code	M ID 3/3
	Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	
Must Use	ST02 329 Transaction Set Control Number	M AN 4/9
	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.	

Segment:BSN Beginning Segment for Ship Notice**Position:**0200**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:**1If BSN07 is present, then BSN06 is required.**Semantic Notes:**1BSN03 is the date the shipment transaction set is created.

2BSN04 is the time the shipment transaction set is created.

3BSN06 is limited to shipment related codes.

Comments:1BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Notes: In some implementations, it may be appropriate to omit load level and packaging levels, i.e., tare and pack, from the transaction set. Depending on the retailer's receiving systems, carton identification may not be required. Code 0004 in BSN05 indicates the use of a hierarchical structure that does not include a unit load level or any packaging levels.

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
Must Use BSN01	353 Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
Must Use BSN02	396 Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
Must Use BSN03	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M 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)	M TM 4/8
Must Use 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 0001 Shipment, Order, Packaging, Item	O ID 4/4

Segment:*HL* Hierarchical Level

Position:0100

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: The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set. HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>ElementName</u>	
Must Use	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	
	The value for this level (Shipment) is 1.	
Must Use	HL03 735 Hierarchical Level Code	M ID 1/2
	Code defining the characteristic of a level in a hierarchical structure	
	S Shipment	

Segment: *TD1* Carrier Details (Quantity and Weight)

Position: 1100

Loop:HL Mandatory**Level:**Detail**Usage:**Optional**Max Use:**20**Purpose:**To specify the transportation details relative to commodity, weight, and quantity**Syntax Notes:**1If TD101 is present, then TD102 is required.

2If TD103 is present, then TD104 is required.

3If TD106 is present, then TD107 is required.

4If either TD107 or TD108 is present, then the other is required.

5If either TD109 or TD110 is present, then the other is required.

Semantic Notes:**Comments:****Notes:** This segment, at the Shipment level, is used to specify total containers and gross weight of the shipment.**Data Element Summary**

Ref.	Data	Attributes
Des.	ElementName	
Must Use	TD101 103 Packaging Code	M 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	
	Part 1	
	31	
	CTN Carton	
	Part 2	
	25 Corrugated or Solid	
	31 Fibre	
	71 Not Otherwise Specified	
	76 Paper	
Must Use	TD102 80 Lading Quantity	C N0 1/7
	Number of units (pieces) of the lading commodity	
	The number of packages in the shipment.	
Must Use	TD106 187 Weight Qualifier	O ID 1/2
	Code defining the type of weight	
	G Gross Weight	
Must Use	TD107 81 Weight	C R 1/10
	Numeric value of weight	
Must Use	TD108 355 Unit or Basis for Measurement Code	C ID 2/2
	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
	See Section III for code list.	

			LB Pound		
Rec	TD109	183	Volume		X R 1/8
			Value of volumetric measure		
			Gross volume		
Rec	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		
			See Section III for code list.		
			CF Cubic Feet		
			CR Cubic Meter		

Segment:TD5 Carrier Details (Routing Sequence/Transit Time)

Position:1200

Loop:HL Mandatory

Level:Detail

Usage:Optional (Must Use)

Max Use:12

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

Syntax Notes:1At least one of TD502 TD504 TD505 TD506 or TD512 is required.

2If TD502 is present, then TD503 is required.

3If TD507 is present, then TD508 is required.

4If TD510 is present, then TD511 is required.

5If TD513 is present, then TD512 is required.

6If TD514 is present, then TD513 is required.

7If TD515 is present, then TD512 is required.

Semantic Notes:1TD515 is the country where the service is to be performed.

Comments:1When 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: This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a pre-established routing guide, use code 91 or 92 in TD502 and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2 and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.

Data Element Summary

Ref. Data**Des. ElementName****Attributes**

Must Use	TD	Des.	ElementName	Attributes
	502	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
	503	67	Identification Code Code identifying a party or other code	C AN 2/80

Segment:REF Reference Identification**Position:**1500**Loop:**HL Mandatory**Level:**Detail**Usage:**Optional (Must Use)**Max Use:**>1**Purpose:**To specify identifying information**Syntax Notes:**1At least one of REF02 or REF03 is required.

2If either C04003 or C04004 is present, then the other is required.

3If either C04005 or C04006 is present, then the other is required.

Semantic Notes:1REF04 contains data relating to the value cited in REF02.**Comments:**

Notes: In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated Master Bill of Lading Number will facilitate tracking.

Data Element Summary**Ref. Data****Des. ElementName****Attributes**

Must Use	REF	Des.	ElementName	Attributes
	01	128	Reference Identification Qualifier Code qualifying the Reference Identification BM Bill of Lading Number	M ID 2/3
	02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50

Segment:DTM Date/Time Reference**Position:**2000**Loop:**HL Mandatory

Level:Detail**Usage:**Optional (Must Use)**Max Use:**10**Purpose:**To specify pertinent dates and times**Syntax Notes:**1At least one of DTM02 DTM03 or DTM05 is required.

2If DTM04 is present, then DTM03 is required.

3If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Data Element Summary**

Ref.	Data	Attributes
Des.	ElementName	
Must UseDTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
Must UseDTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8

Segment:*N1 Name***Position:**2200**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:**1At least one of N102 or N103 is required.

2If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:**1This 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.

2N105 and N106 further define the type of entity in N101.

Notes: There will be at least one occurrence of this segment, to identify the buying party by using code BY in N101.

N103 and N104 are required except when N101 contains code CT, MA or OB.

Data Element Summary

Ref.	Data	Des. ElementName	Attributes
Must Use	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SF Ship From ST Ship To	M ID 2/3
Must Use	N102	93 Name Free-form name	C 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 92 Assigned by Buyer or Buyer's Agent	C ID 1/2
Must Use	N104	67 Identification Code Code identifying a party or other code This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or the seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.	C AN 2/80

Segment: N4 Geographic Location**Position:**2500**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:**1Only one of N402 or N407 may be present.

2If N406 is present, then N405 is required.

3If N407 is present, then N404 is required.

Semantic Notes:**Comments:**1A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

2N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: N401 and N402 are required unless N405 and N406 are used.**Data Element Summary**

Ref. Data**Des. ElementName****Attributes**

Rec	Des.	ElementName	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	X 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

Segment: *HL* Hierarchical Level**Position:**0100**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.

2HL01 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: The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set. HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

Ref.	Data		Attributes
	<u>Des.</u>	<u>ElementName</u>	
Must Use	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	
Must Use	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	
Must Use	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		O Order	

Segment:**PRF** Purchase Order Reference

Position:0500

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:1PRF04 is the date assigned by the purchaser to purchase order.

Comments:

Data Element Summary

Ref.	Data		Attributes
	<u>Des.</u>	<u>ElementName</u>	

Must Use	PRF01	324	Purchase Order Number	M	AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number.		
Rec	PRF04	373	Date	O	DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year		

Segment:TDI Carrier Details (Quantity and Weight)**Position:**1100**Loop:**HL Mandatory**Level:**Detail**Usage:**Optional**Max Use:**20**Purpose:**To specify the transportation details relative to commodity, weight, and quantity**Syntax Notes:**1If TD101 is present, then TD102 is required.

2If TD103 is present, then TD104 is required.

3If TD106 is present, then TD107 is required.

4If either TD107 or TD108 is present, then the other is required.

5If either TD109 or TD110 is present, then the other is required.

Semantic Notes:**Comments:****Notes:** This segment, at the Order level, is used to specify the number and type of shipping containers in the order.**Data Element Summary**

Ref.	Data	Attributes
Des.	ElementName	
Must Use	TD101 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	
	Part 1	
	CTN Carton	
	Part 2	
	25 Corrugated or Solid	
	71 Not Otherwise Specified	
	76 Paper	
Must Use	TD102 80 Lading Quantity	C N0 1/7
	Number of units (pieces) of the lading commodity	
Rec	TD106 187 Weight Qualifier	O ID 1/2

Code defining the type of weight

G Gross Weight

Rec	TD107	81	Weight	C R 1/10
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Numeric value of weight

Rec	TD108	355	Unit or Basis for Measurement Code	C ID 2/2
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Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

LB Pound

Segment:TD5 Carrier Details (Routing Sequence/Transit Time)**Position:**1200**Loop:**HL Mandatory**Level:**Detail**Usage:**Optional**Max Use:**12**Purpose:**To specify the carrier and sequence of routing and provide transit time information**Syntax Notes:**1At least one of TD502 TD504 TD505 TD506 or TD512 is required.

2If TD502 is present, then TD503 is required.

3If TD507 is present, then TD508 is required.

4If TD510 is present, then TD511 is required.

5If TD513 is present, then TD512 is required.

6If TD514 is present, then TD513 is required.

7If TD515 is present, then TD512 is required.

Semantic Notes:1TD515 is the country where the service is to be performed.**Comments:**1When 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:** This segment, at the order level, is used to specify the status of the order.**Data Element Summary****Ref. Data****Des. ElementName****Attributes**

Rec	TD506	368	Shipment/Order Status Code	C ID 2/2
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Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction

BK Back Ordered from Previous Order
 BP Shipment Partial, Back Order to Ship on (Date)
 CC Shipment Complete on (Date)
 CM Shipment Complete with Additional Quantity
 CP Partial Shipment on (Date), Considered No Backorder
 CS Shipment Complete with Substitution
 DE Deleted Order
 IC Item Canceled
 IS Item Represents Substitution from Original Order
 PR Partial Shipment
 SS Split Shipment

Segment:*REF* Reference Identification

Position:1500

Loop:HL Mandatory

Level:Detail

Usage:Optional (Must Use)

Max Use:>1

Purpose:To specify identifying information

Syntax Notes:1At least one of REF02 or REF03 is required.

2If either C04003 or C04004 is present, then the other is required.

3If either C04005 or C04006 is present, then the other is required.

Semantic Notes:1REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
Must Use REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification Belk requires the DP iteration of the REF segment. The IV iteration is optional. DP Department Number IV Seller's Invoice Number	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	C AN 1/50

Segment:NI Name**Position:**2200**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:**1At least one of N102 or N103 is required.

2If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:**1This 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.

2N105 and N106 further define the type of entity in N101.

Notes: N103 and N104 are required except when N101 contains code MA or OB. When the ship to is the end consumer (customer of retailer), N103 and N104 are not required.

In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR, N103 will contain code 93, and N104 will contain the actual identification number. To identify the receiver of the transaction set, N101 will contain code TO, N103 will contain code 94, and N104 will contain the actual identification number. These four codes may be used only in the combination listed above and may only be used to identify the sender and/or receiver of the transaction set.

Data Element Summary**Ref. Data****Des. ElementName****Attributes**

Must Use	Ref.	Data	Attributes
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser)	M ID 2/3
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	C ID 1/2
N104	67	Identification Code Code identifying a party or other code This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or the seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.	C AN 2/80

Segment:*HL* Hierarchical Level**Position:**0100**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.

2HL01 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:** The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set. HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.**Data Element Summary****Ref. Data****Des. ElementName****Attributes**

Must Use	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		
Must Use	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		
Must Use	HL03	735	Hierarchical Level Code	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			P Pack		

Segment:*PO4* Item Physical Details

Position:0600

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 unit of measure of the "Size" identified in the PO402. 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.

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
RecPO410	82 Length Largest horizontal dimension of an object measured when the object is in the upright position	X R 1/8
RecPO411	189 Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X R 1/8
RecPO412	65 Height Vertical dimension of an object measured when the object is in the upright position	X R 1/8
RecPO413	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 FT Foot LF Linear Foot LM Linear Meter MR Meter	X ID 2/2

Segment:PKG Marking, Packaging, Loading**Position:**1000**Loop:**HL Mandatory**Level:**Detail**Usage:**Optional**Max Use:**25**Purpose:**To describe marking, packaging, loading, and unloading requirements**Syntax Notes:**1At least one of PKG04 PKG05 or PKG06 is required.

2If PKG04 is present, then PKG03 is required.

3If PKG05 is present, then PKG01 is required.

Semantic Notes:1PKG04 should be used for industry-specific packaging description codes.**Comments:**1Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.

2If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.

3Use PKG03 to indicate the organization that publishes the code list being referred to.

4Special marking or tagging data can be given in PKG05 (description).

Notes: The codes in PKG04 are maintained by the VICS EDI SMC and are only printed in this guideline.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>ElementName</u>	
RecPKG01	349 Item Description Type Code indicating the format of a description S Structured (From Industry Code List)	C ID 1/1
RecPKG03	559 Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI	C ID 2/2
RecPKG04	754 Packaging Description Code A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product Part 1: Container Type (Position 1) L Logical Container P Physical Container Part 2: Container Configuration (Positions 2&3) 01 Carton 02 Carton, Hanging Garments 03 Carton, With hangers (not hanging) 04 Carton, With identifiable inner packs 05 Carton, With unidentifiable inner packs 06 Rack, Hanging Garments (GOH)	C AN 1/7

Segment: *MAN* Marks and Numbers

Position:1900

Loop:HL Mandatory

Level:Detail

Usage:Optional

Max Use:>1

Purpose:To indicate identifying marks and numbers for shipping containers

Syntax Notes:1If either MAN04 or MAN05 is present, then the other is required.

2If MAN06 is present, then MAN05 is required.

Semantic Notes:1MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.

2When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.

3When 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:1When 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.

2MAN03 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: When the shipping container is the same as the consumer unit, the UPC may be the only UCC identification code on the container. In many applications, it is necessary to positively identify what identification code is to be scanned and matched at point of receipt. Since the UPC is not a unique serial shipping container code, only one pack level for each item is required when using the pick and pack structure. The total number of shipping units for this item is the same as the quantity for the item in the SN1 segment at the item level.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>ElementName</u>	<u>Attributes</u>
Must UseMAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) GM SSCC-18 and Application Identifier	X ID 1/2
Must UseMAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48

Segment:*HL* Hierarchical Level

Position:0100

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:1The 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.

2HL01 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.

3HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4HL03 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.

5HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
Must Use	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
Must Use	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
Must Use	HL03 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item	M ID 1/2

Segment:*LIN* Item Identification

Position:0200

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: The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.

See Section III for complete U.P.C. and EAN code definitions.

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
Must Use	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)	
	EN European Article Number (EAN) (2-5-5-1)	
	UP U.P.C. Consumer Package Code (1-5-5-1)	
Must Use	LIN03 234 Product/Service ID	M AN 1/48
	Identifying number for a product or service	

Segment: *SN1* Item Detail (Shipment)

Position: 0300

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:1SN101 is the ship notice line-item identification.

Comments:1SN103 defines the unit of measurement for both SN102 and SN104.

Notes: This segment is used to specify the quantities associated with the item identified in the LIN at the item level.

When specifying an item, which is comprised of two or more components that are in unique shipping containers, SN103 will contain code ST for set and the quantity specified in SN102 is the number of sets as identified in the LIN segment. Each different component is identified in one pack level. See the VICS Note, on the SLN segment, at the pack level.

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
Must Use SN102	382 Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M R 1/10
Must Use 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 See Section III for code list. EA Each	M ID 2/2

Segment:*SLN* Subline Item Detail

Position:0400

Loop:HL Mandatory

Level:Detail

Usage:Optional

Max Use:1000

Purpose:To specify product subline detail item data

Syntax Notes:1 If either SLN04 or SLN05 is present, then the other is required.

2 If SLN07 is present, then SLN06 is required.

3 If SLN08 is present, then SLN06 is required.

4 If either SLN09 or SLN10 is present, then the other is required.

5 If either SLN11 or SLN12 is present, then the other is required.

6 If either SLN13 or SLN14 is present, then the other is required.

7 If either SLN15 or SLN16 is present, then the other is required.

8 If either SLN17 or SLN18 is present, then the other is required.

9 If either SLN19 or SLN20 is present, then the other is required.

10If either SLN21 or SLN22 is present, then the other is required.

11If either SLN23 or SLN24 is present, then the other is required.

12If either SLN25 or SLN26 is present, then the other is required.

13If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:**1** SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:**1** See the Data Element Dictionary for a complete list of IDs.

2 SLN01 is related to (but not necessarily equivalent to) the baseline item number.

Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

3 SLN09 through SLN28 provide for ten different product/service IDs for each item.

For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: This segment can be used to specify the originally ordered SKU for substituted SKUs. This segment can also be used to specify SKU contents of an assortment. The assortment can be defined by the retailer or the vendor. The assortment identification is in the line item detail segment for the transaction. This segment may be used to specify partial deletions of SKUs ordered but not invoiced and/or shipped. This segment may also be used to specify export item detail, such as price information, when shipments are made across the border.

At this time, the ASC X12 Ship Notice/Manifest does not have the same capability as the Purchase Order and Invoice for specification of the price placed on pre-ticketed items. For many retailers, this information is necessary to determine if the cartons need to be routed to areas for re-ticketing for promotional pricing. The SLN can function, in a limited way, to satisfy this need. SLN03 will contain code I, SLN04 will contain the same code value as SN102, SLN05 will be the same as SN103, SLN06 will be the price on the ticket and SLN07 will contain code RE.

If SLN03 contains code D or code I, then SLN04 and SLN05 are required.

The codes listed for SLN09 apply to every occurrence of Data Element 235 in the SLN segment.

See Section III for complete U.P.C. and EAN code definitions.

Data Element Summary

Ref.	Data	Attributes
Des.	ElementName	
Must Use	SLN01 350 Assigned Identification	M AN 1/20
	Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	SLN03 662 Relationship Code	M ID 1/1
	Code indicating the relationship between entities	

I Included

Rec SLN06 212 Unit Price X R 1/17

Price per unit of product, service, commodity, etc.

The price is sent with a decimal point only when needed, e.g., \$15.95 would be sent as "15.95", and \$29.00 would be sent as "29".

To indicate a no charge item or free goods, SLN06 will contain a single zero (0) and SLN07 will contain code NC.

Rec SLN07 639 Basis of Unit Price Code O ID 2/2

Code identifying the type of unit price for an item

This data element is used to clarify or alter the basis of unit price. The unit price expressed in SLN06 is always in the same terms as the unit of measure in SLN05, unless otherwise specified in SLN07.

RE Retail Price per Each

WE Wholesale Price per Each

Segment:CTT Transaction Totals

Position:0100

Loop:

Level:Summary

Usage:Optional (Must Use)

Max Use:1

Purpose:To transmit a hash total for a specific element in the transaction set

Syntax Notes:1If either CTT03 or CTT04 is present, then the other is required.

2If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

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

Data Element Summary

Ref. Data

Des. ElementName

Attributes

Must UseCTT01 354 Number of Line Items M N0 1/6

Total number of line items in the transaction set

The total number of HL segments present in the transaction set.

Segment:*SE* Transaction Set Trailer**Position:**0200**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:**1SE is the last segment of each transaction set.**Data Element Summary****Ref. Data****Des. ElementName****Attributes**

Must Use	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
Must Use	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			This must be the same number as in the ST segment (ST02) for the transaction set.		

856V4030 Rec = Recommended**September 11, 2002**

Belk 856 Example:

ISA*00* *00* *ql*sender id *08*6123830200
*020415*0600*U*00403*000000001*0*T*>~
GS*SH*sender id*6123830200*20020415*0600*1*X*004030VICS~
ST*856*000000001~
BSN*00*12345*20020415*1424*0001~
HL*1**S~
TD1*CTN25*1****G*100*LB*12345678*CF~
TD5**2*RPSI~
REF*BM*0340775003496~
DTM*011*20020414~
N1*SF*ABC COMPANY*1*123456789~
N4*New York*NY*12345~
N1*ST*Belk0284*92*0284~
N4*Charlotte*NC*28217~
HL*2*1*O~
PRF*123456789***20020410~
TD1*CTN25*1****G*100*LB~
TD5*****CC~
REF*DP*0111~
REF*IV*12345~
N1*BY**92*0284~
HL*3*2*P~
PO4*****5*10*6*FT~
PKG*S**VI*L01~
MAN*GM*00007545281000207430~
HL*4*3*I~
LIN**UP*123456789999~
SN1**100*EA~
SLN*A10**I***89.00*RE~
SLN*A20**I***44.50*WE~
CTT*4~
SE*26*000000001~
GE*1*1~
IEA*1*000000001~