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.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	0010	ISA	Interchange Control Header	M	1		
Must Use	0020	GS	Functional Group Header	M	1		
M	0100	ST	Transaction Set Header	M	1		
M	0200	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 - SHIPMENT			1	
M	0100	HL	Hierarchical Shipment Level	M	1		c1
Must Use	1100	TD1	Carrier Details (Quantity and Weight)	M	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - TD3			12	
	1300	TD3	Carrier Details (Equipment)	O	1		
Must Use	1500	REF	Reference Identification	M	1		
Must Use	2000	DTM	Date/Time Reference	M	1		
Rec.	2100	FOB	F.O.B. Related Instructions	M	1		
			LOOP ID - N1			200	
Must Use	2200	N1	Name	M	1		
	2400	N3	Address Information	O	2		
Must Use	2500	N4	Geographic Location	M	1		

			LOOP ID – HL - ORDER			1
Must Use	0100	HL	Hierarchical Order Level	M	1	
	0500	PRF	Purchase Order Reference	O	1	
Must Use	0700	PID	Product/Item Description	M	1	
	1100	TD1	Carrier Details (Quantity and Weight)	O	1	
Must Use	1500	REF	Reference Identification	M	1	
			LOOP ID - N1			1
	2200	N1	Name	O	1	
			LOOP ID – HL – TARE/PALLET			1
Must Use	0100	HL	Hierarchical Level	M	1	
	1900	MAN	Marks and Numbers	O	1	
	2150	PAL	Pallet Information	O	1	
			LOOP ID – HL- PACK			1
Must Use	0100	HL	Hierarchical Level	M	1	
	0600	PO4	Item Physical Details	O	1	
Must Use	1900	MAN	Marks and Numbers	M	1	
			LOOP ID – HL- ITEM			1
Must Use	0100	HL	Hierarchical Level	M	1	
Must Use	0200	LIN	Item Identification	M	1	
Must Use	0300	SN1	Item Detail (Shipment)	M	1	
	0600	PO4	Item Physical Details	O	1	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	0100	CTT	Transaction Totals	M	1		n1
M	0200	SE	Transaction Set Trailer	M	1		
Must Use	0210	GE	Functional Group Trailer	M	1		
Must Use	0220	IEA	Interchange Control 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: **ISA** **Interchange Control Header**
Position: 0010
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA02**	**I02**	**Authorization Information** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	**M AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code to identify the type of information in the Security Information Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA04**	**I04**	**Security Information** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	**M AN 10/10**
M	**ISA05**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA06**	**I06**	**Interchange Sender ID** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	**M AN 15/15**
M	**ISA07**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA08**	**I07**	**Interchange Receiver ID** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	**M AN 15/15**
M	**ISA09**	**I08**	**Interchange Date** Date of the interchange	**M DT 6/6**
M	**ISA10**	**I09**	**Interchange Time** Time of the interchange	**M TM 4/4**
M	**ISA11**	**I10**	**Interchange Control Standards Identifier** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 1/1**

M	**ISA12**	**I11**	**Interchange Control Version Number** This version number covers the interchange control segments Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 5/5**
M	**ISA13**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M**	**N0 9/9**
M	**ISA14**	**I13**	**Acknowledgment Requested** Code sent by the sender to request an interchange acknowledgment (TA1) Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 1/1**
M	**ISA15**	**I14**	**Usage Indicator** Code to indicate whether data enclosed by this interchange envelope is test, production or information Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 1/1**
M	**ISA16**	**I15**	**Component Element Separator** Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	**M**	**AN 1/1**

Segment: **GS** **Functional Group Header**
Position: 0020
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes:
1 GS04 is the group date.
2 GS05 is the group time.
3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
Comments:
1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners	**M AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners	**M AN 2/15**
M	**GS04**	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**
M	**GS05**	**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**
M	**GS06**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M N0 1/9**
M	**GS07**	**455**	**Responsible Agency Code** Code used in conjunction with Data Element 480 to identify the issuer of the standard Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID ½**
M	**GS08**	**480**	**Version / Release / Industry Identifier Code** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed Refer to 004010 Data Element Dictionary for acceptable code values.	**M AN 1/12**

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).
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	**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: 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: **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 Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 2/2**
M	**BSN02**	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment Do not exceed 8 digits—MUST BE A UNIQUE VALUE OVER A 24 MONTH PERIOD	**M**	**AN 2/30**
M	**BSN03**	**373**	**Date** Date expressed as CCYYMMDD	**M**	**DT 8/8**
M	**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)		
	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, Pack, Item or PICK PACK format 0002 Shipment, Order, Item, Pack or Standard Pack Format	**O**	**ID 4/4**
Do not use	**BSN06**	**640**	**Transaction Type Code** Code specifying the type of transaction Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
Do not use	**BSN07**	**641**	**Status Reason Code** Code indicating the status reason Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 3/3**

Segment: **HL** **Hierarchical Shipment Level**
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1 – ONLY ONE SHIPMENT PER ASN
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** 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 S	**M**	**ID ½**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 1100
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.
4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
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 CTN25 – Carton Corrugated CTN31 - Carton Fiber CTN76 - Carton Paper PLT Pallet	**O AN 3/5**
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**X N0 1/7**
TD103	**23**	**Commodity Code Qualifier** Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID 1/1**
TD104	**22**	**Commodity Code** Code describing a commodity or group of commodities	**X AN 1/30**
TD105	**79**	**Lading Description** Description of an item as required for rating and billing purposes	**O AN 1/50**
TD106	**187**	**Weight Qualifier** Code defining the type of weight G Gross Weight	**O ID 1/2**
TD107	**81**	**Weight** Numeric value of weight	**X R 1/10**
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**
TD109	**183**	**Volume** Value of volumetric measure	**X R 1/8**
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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X ID 2/2**

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:
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.

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	**O**	**ID 1/2**
TD502	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 2	**X**	**ID 1/2**
TD503	**67**	**Identification Code** Code identifying a party or other code	**X**	**AN 2/80**
TD504	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment A Air C Consolidation E Expedited M Motor (Common Carrier) 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 Refer to 004010 Data Element Dictionary for acceptable code values. Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**AN 1/35**

Segment: **TD3** **Carrier Details (Equipment)**
Position: 1300
Loop: TD3 Optional
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:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD301	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment TL Trailer (not otherwise specified)	**X ID 2/2**
TD302	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number	**O AN 1/4**
TD303	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	**X AN 1/10**

Segment: **REF** **Reference Identification**
Position: 1500
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.
Semantic Notes:
Comments: **Ship Level**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **At least one MUST be sent** BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice)	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **DTM** **Date/Time Reference**
Position: 2000
Loop: HL Mandatory
Level: Detail
Usage: Optional
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:

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 017 Estimated Delivery	**M ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD Expression of a date, a time, or range of dates, times or dates and times	**X DT 8/8**

Segment: **FOB** **F.O.B. Related Instructions**
Position: 2100
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:
1 If FOB03 is present, then FOB02 is required.
2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.
4 If FOB08 is present, then FOB09 is required.
Semantic Notes:
1 FOB01 indicates which party will pay the carrier.
2 FOB02 is the code specifying transportation responsibility location.
3 FOB06 is the code specifying the title passage location.
4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.
Comments:

Data Element Summary

	Ref. 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)	**M**	**ID 2/2**
	FOB02	**309**	**Location Qualifier** Code identifying type of location DE Destination (Shipping) OR Origin (Shipping Point) ZZ Mutually Defined	**X**	**ID 1/2**
	FOB03	**352**	**Description** A free-form description to clarify the related data elements and their content	**O**	**AN 1/80**

Segment: **N1** **Name**
Position: 2200
Loop: N1 Optional
Level: Detail
Usage: Optional
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: **When N101 = "SF" the N104 must have the vendor number**

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 ST Ship To	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name	**X**	**AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer Or Buyer's Agent	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Party City Vendor Number Party City Store/DC Number (use leading zero for single-digit locations, e.g., "03")	**X**	**AN 2/80**

Segment: **N3** **Address Information**
Position: 2400
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N4** **Geographic Location**
Position: 2500
Loop: N1 Optional
Level: Detail
Usage: Optional
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.

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**
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 Order Level**
Position: 0100
Loop: HL Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.

2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

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

4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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

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	**M**	**ID 1/2**

Segment: **PRF** **Purchase Order Reference**
Position: 0500
Loop: HL Optional
Level: Detail
Usage: Optional
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: **Party City recommends that you send the PO Date (PRF04)**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PRF01**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the purchaser	**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**
	PRF03	**327**	**Change Order Sequence Number** Number assigned by the purchaser identifying a specific change or revision to a previously transmitted transaction set	**O**	**AN 1/8**
	PRF04	**373**	**Date** Date expressed as CCYYMMDD	**O**	**DT 8/8**

Segment: **PID** **Product/Item Description**
Position: 0700
Loop: HL Optional
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description S	**M**	**ID 1/1**
	PID02	**750**	**Product/Process Characteristic Code** Code identifying the general class of a product or process characteristic Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/3**
	PID03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values VI	**X**	**ID 2/2**
	PID04	**751**	**Product Description Code** FL Compliant with Fair Labor Standards Act ZZ FLSA Non-Compliant or Not Applicable	**X**	**AN 1/12**
	PID05	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 1100
Loop: HL Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.
4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
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 PLT Pallet	**M**	**AN 3/5**
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**X**	**N0 1/7**
TD103	**23**	**Commodity Code Qualifier** Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**
TD104	**22**	**Commodity Code** Code describing a commodity or group of commodities	**X**	**AN 1/30**
TD105	**79**	**Lading Description** Description of an item as required for rating and billing purposes	**O**	**AN 1/50**
TD106	**187**	**Weight Qualifier** Code defining the type of weight G Gross Weight	**O**	**ID 1/2**
TD107	**81**	**Weight** Numeric value of weight	**X**	**R 1/10**
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**

Segment: **REF** **Reference Identification**
Position: 1500
Loop: HL Optional
Level: Detail
Usage: Optional
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: **Order Level**

Notes: **IA is MANDATORY and reflects the Party City Vendor Number.**
SI is MANDATORY – unique number linking ASN and Invoice to shipment.

Party City prefers Seller's Invoice Number ("IV'), however, this segment is optional

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BT Batch Number CH Customer catalog number CO Customer Order Number DP Department Number IA Internal Vendor Number - **MANDATORY** IT Internal Customer Number SI Shipping Identifier – **MANDATORY** - Unique number on ASN and matching Invoice linking shipment to Invoice (max 15 A/N) IV Seller's Invoice Number MR Merchandise Type Code PD Promotion/Deal Number SB Sales Region Number VN Vendor Order Number	**M ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **N1** **Name**
Position: 2200
Loop: N1 Optional
Level: Detail
Usage: Optional
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.

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 BY Buying Party (Purchaser)	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name	**X**	**AN 1/60**
	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	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X**	**AN 2/80**

Segment: **HL** **Hierarchical Tare 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.

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		
			T Shipping Tare		

Segment: **MAN** **Marks and Numbers**
Position: 1900
Loop: HL Optional
Level: Detail
Usage: Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**MAN01**	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87) GM SSCC-18 and Application Identifier	**M ID 1/2**
M	**MAN02**	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	**M AN 1/48**

Segment: **PAL** **Pallet Information**
Position: 2150
Loop: HL Optional
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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PAL01	**883**	**Pallet Type Code** Code indicating the type of pallet Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID ½**
PAL02	**884**	**Pallet Tiers** The number of layers per pallet	**O N0 1/3**
PAL03	**885**	**Pallet Blocks** The number of pieces (cartons) per layer on the pallet	**O N0 1/3**
PAL04	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container	**O N0 1/6**
PAL05	**395**	**Unit Weight** Numeric value of weight per unit	**X R 1/8**
PAL06	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound	**X ID 2/2**
PAL07	**82**	**Length** Largest horizontal dimension of an object measured when the object is in the upright position	**X R 1/8**
PAL08	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position	**X R 1/8**
PAL09	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position	**X R 1/8**
PAL10	**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 IN Inch	**X ID 2/2**

PAL11	**384**	**Gross Weight per Pack**	**X**	**R 1/9**
		Numeric value of gross weight per pack		
PAL12	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound		
PAL13	**385**	**Gross Volume per Pack**	**X**	**R 1/9**
		Numeric value of gross volume per pack		
PAL14	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CI Cubic Inches		
PAL15	**399**	**Pallet Exchange Code**	**O**	**ID 1/1**
		Code specifying pallet exchange instructions Refer to 004010 Data Element Dictionary for acceptable code values.		
PAL16	**810**	**Inner Pack**	**O**	**N0 1/6**
		The number of eaches per inner container		

Segment: **HL** **Hierarchical Pack 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.

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	**M**	**ID 1/2**

Segment: **PO4** **Item Physical Details**
Position: 0600
Loop: HL Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If either PO402 or PO403 is present, then the other is required.
2 If PO405 is present, then PO406 is required.
3 If either PO406 or PO407 is present, then the other is required.
4 If either PO408 or PO409 is present, then the other is required.
5 If PO410 is present, then PO413 is required.
6 If PO411 is present, then PO413 is required.
7 If PO412 is present, then PO413 is required.
8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
9 If PO417 is present, then PO416 is required.
10 If PO418 is present, then PO404 is required.
Semantic Notes:
1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3 PO417 is the ending package identifier in a range of identifiers.
4 PO418 is the number of packages in this layer.
Comments:
1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2 PO413 defines the unit of measure for PO410, PO411, and PO412.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
PO401	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container	**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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**AN 3/5**
PO405	**187**	**Weight Qualifier** Code defining the type of weight Refer to 004010 Data Element Dictionary for acceptable code values.	**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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**

PO408	**385**	**Gross Volume per Pack**	**X**	**R 1/9**
		Numeric value of gross volume per pack		
PO409	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
PO410	**82**	**Length**	**X**	**R 1/8**
		Largest horizontal dimension of an object measured when the object is in the upright position		
PO411	**189**	**Width**	**X**	**R 1/8**
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
PO412	**65**	**Height**	**X**	**R 1/8**
		Vertical dimension of an object measured when the object is in the upright position		
PO413	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
PO414	**810**	**Inner Pack**	**O**	**N0 1/6**
		The number of eaches per inner container		
PO415	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
		Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values.		
PO416	**350**	**Assigned Identification**	**X**	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
PO417	**350**	**Assigned Identification**	**O**	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
PO418	**1470**	**Number**	**O**	**N0 1/9**
		A generic number		

Segment: **MAN** **Marks and Numbers**
Position: 1900
Loop: HL Optional
Level: Detail
Usage: Optional
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.

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 UC U.P.C. Shipping Container Code	
M	**MAN02**	**87**	**Marks and Numbers**	**M AN 1/48**
			Marks and numbers used to identify a shipment or parts of a shipment	
	MAN03	**87**	**Marks and Numbers**	**O AN 1/48**
			Marks and numbers used to identify a shipment or parts of a shipment	
	MAN04	**88**	**Marks and Numbers Qualifier**	**X ID 1/2**
			Code specifying the application or source of Marks and Numbers (87) GM SSCC-18 and Application Identifier UC U.P.C. Shipping Container Code	
	MAN05	**87**	**Marks and Numbers**	**X AN 1/48**
			Marks and numbers used to identify a shipment or parts of a shipment	
	MAN06	**87**	**Marks and Numbers**	**O AN 1/48**
			Marks and numbers used to identify a shipment or parts of a shipment	

Segment: **HL** **Hierarchical Item 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.

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**

Segment: **LIN** **Item Identification**
Position: 0200
Loop: HL Optional
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.
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: Party City requires BOTH the item UPC and the Vendor's Item Number

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
M	**LIN02**	**235**	**Product/Service ID Qualifier**	**M**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) UP Universal Product Code (U.P.C.)		
M	**LIN03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Product (Selling Unit) UPC		
	LIN04	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) VN Vendor Item Number		
	LIN05	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Vendor's Item Number		

Segment: **SN1** **Item Detail (Shipment)**
Position: 0300
Loop: HL Optional
Level: Detail
Usage: Optional
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	SN101	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
M	**SN102**	**382**	**Number of Units Shipped**	**M**	**R 1/10**
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
M	**SN103**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each		

Segment: **PO4** **Item Physical Details**

Position: 0600
Loop: HL Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

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

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

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
PO401	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container	**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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**AN 3/5**
PO405	**187**	**Weight Qualifier** Code defining the type of weight Refer to 004010 Data Element Dictionary for acceptable code values.	**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 Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**

PO408	**385**	**Gross Volume per Pack**	**X**	**R 1/9**
		Numeric value of gross volume per pack		
PO409	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
PO410	**82**	**Length**	**X**	**R 1/8**
		Largest horizontal dimension of an object measured when the object is in the upright position		
PO411	**189**	**Width**	**X**	**R 1/8**
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
PO412	**65**	**Height**	**X**	**R 1/8**
		Vertical dimension of an object measured when the object is in the upright position		
PO413	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
PO414	**810**	**Inner Pack**	**O**	**N0 1/6**
		The number of eaches per inner container		
PO415	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
		Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values.		
PO416	**350**	**Assigned Identification**	**X**	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
PO417	**350**	**Assigned Identification**	**O**	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
PO418	**1470**	**Number**	**O**	**N0 1/9**
		A generic number		

Segment: **CTT** **Transaction Totals**

Position: 0100

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**
	CTT02	**347**	**Hash Total** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. --------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	**O**	**R 1/10**

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: **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**

Segment: **GE** **Functional Group Trailer**
Position: 0210
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: **1** The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Comments: **1** The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GE01**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position: 0220
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**IEA01**	**I16**	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange	**M**	**N0 1/5**
M	**IEA02**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M**	**N0 9/9**

Sample ASN

ISA*00* *00* *01*001948520 *01*008325230
*090421*1037*U*00401*000005882*0*P*>~
GS*SH*001948520*008325230*20090421*1037*5882*X*004010~
ST*856*58820001~
BSN*00*000000010784572*20090418*1830*0001~
HL*1**S~
TD1*CTN25*1****G*11*LB~
TD5*B*2*UPSN*U*UPS~
REF*CN*1Z1916030310323274~
DTM*011*20090418~
DTM*017*20090421~
FOB*PP*DE*WAYNE, NJ~
N1*ST*PARTY CITY #4*92*04~
N1*SF*ABC Company INC.*91*A555~
N4*NEW YORK, NY*NY*10918*USA~
HL*2*1*O~
PRF*0001-001106031***20090329~
TD1*CTN25*1~
REF*IA*A555~
REF*SI*53151817-05~
NX*BY*PARTY CITY #4*92*04~
HL*3*2*P~
MAN*GM*00009484197152462812~
HL*4*3*I~
LIN**UP*948419679318*VN*391376~
SN1**48*EA~
PO4*8**********12~
CTT*4~
SE*26*58820001~
GE*1*5882~
IEA*1*000005882~