856 Ship Notice/Manifest - Department Store Division Revised: Sept 4, 1998

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
>>	010	ST	Transaction Set Header	M	1		
>>	020	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HLS			200000	
>>	010	HL	Hierarchical Level - Shipment	M	1		c1
>>	120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		
>>	150	REF	Reference Identification	M	>1		
>>	200	DTM	Date/Time Reference	M	10		
			LOOP ID - N1			200	
>>	220	N1	Name	M	1		
			LOOP ID - HLO			200000	
>>	010	HL	Hierarchical Level - Order	M	1		
>>	050	PRF	Purchase Order Reference	M	1		
			LOOP ID - N1			200	
>>	220	N1	Name	M	1		
	240	N3	Address Information	O	1		
	250	N4	Geographic Location	O	1		
			LOOP ID - HLP			200000	
>>	010	HL	Hierarchical Level - Pack	M	1		
	060	PO4	Item Physical Details	O	1		
>>	100	PKG	Marking, Packaging, Loading	M	1		
>>	190	MAN	Marks and Numbers	M	1		
			LOOP ID - HLI			200000	
>>	010	HL	Hierarchical Level - Item	M	1		

	020	LIN	Item Identification	M	1
>>	020	LIN	Item Identification	M	1
>>	030	SN1	Item Detail (Shipment)	M	1

Summary:

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

Transaction Set Notes

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

Transaction Set Comments

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

Segment:	**ST** Transaction Set Header	
Position:	010	
Loop:		
Level:	Heading:	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the start of a transaction set and to assign a control number	
Syntax Notes:		
Semantic Notes:	1 The transaction set identifier (ST01) 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:		
Notes:	**	

Sample ST Segment

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ST*856*0001

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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set	
			856 Ship Notice/Manifest	
>>	**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	
			This 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		

Segment: $\quad$ **BSN** Beginning Segment for Ship Notice

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

Sample BSN Segment

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BSN*00*5830*20000711*1940*0001

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Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> BSN01	353	**Transaction Set Purpose Code**	**M ID 2/2**

Code identifying purpose of transaction set

   00 $\qquad$ Original

>> BSN02	396	**Shipment Identification**	**M AN 2/30**

A unique control number assigned by the original shipper to identify a specific shipment

This must be a unique number assigned by the vendor/shipper which can be used to identify the shipment and to possibly reconcile the electronic packing slip to the printed packing slip document sent with the goods.

>> BSN03	373	**Date**	**M DT 8/8**

Date expressed as CCYYMMDD

>> BSN04	337	**Time**	**M TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Only HHMM will be used at DSD

>> BSN05	1005	**Hierarchical Structure Code**	**M ID 4/4**

Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

This data element is required if either the tare level or pack level is included in the transaction set.

   0001 $\qquad$ Shipment, Order, Packaging, Item

   Pick & Pack

   0002 $\qquad$ Shipment, Order, Item, Packaging

   Standard Pack

Segment:	**HL**	Hierarchical Level - Shipment
Position:	010	
Loop:	HLS	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:

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Sample HL Segment

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*HL*1**S*
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Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> 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. This number should be sequentially assigned starting with 1 and incremented by 1 for every occurrence.	
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	
		Not used by DSD	
>> HL03	735	**Hierarchical Level Code**	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		S Shipment	

Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)		
Position:	120		
Loop:	HLS Mandatory		
Level:	Detail:		
Usage:	Mandatory		
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.	

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Sample TD5 Segment

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*TD5*0*2*NART*
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Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> TD501	133	**Routing Sequence Code**	M ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		O Origin Carrier (Air, Motor, or Ocean)	
>> TD502	66	**Identification Code Qualifier**	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		2 Standard Carrier Alpha Code (SCAC)	
>> TD503	67	**Identification Code**	M AN 2/80
		Code identifying a party or other code	
		Carrier's SCAC code	

Segment:	**REF** Reference Identification
Position:	150
Loop:	HLS Mandatory
Level:	Detail:
Usage:	Mandatory
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	***

Sample REF Segment

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REF*BM*13979

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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			BM Bill of Lading Number	
>>	**REF02**	**127**	**Reference Identification**	**M AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			For small package shipments (i.e. RPS, UPS), send the same number as in BSN02 or date.	

		Segment:	**DTM** Date/Time Reference

Segment: **DTM** Date/Time Reference
Position: 200
Loop: HLS   Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1   At least one of DTM02 DTM03 or DTM05 is required.
            2   If DTM04 is present, then DTM03 is required.
            3   If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:
Notes: ***

Sample DTM Segment

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DTM*067*20000711

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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			011 Shipped		
			067 Current Schedule Delivery		
>>	DTM02	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		

Segment:	**N1** Name	
Position:	220	
Loop:	N1 Mandatory	
Level:	Detail:	
Usage:	Mandatory	
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:

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Sample N1 Segment

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N1*ST**92*3902

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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			ST Ship To		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Not used by DSD		
>>	N103	66	**Identification Code Qualifier**	M	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
>>	N104	67	**Identification Code**	M	AN 2/80
			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 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.

3902   Shipments to J L Hudson Co. (Region 1)
2902   Shipments to Dayton's (Region 2)
3902   Shipments to Marshall Field's (Region 3)

Segment:	**HL** **Hierarchical Level - Order**			
Position:	010			
Loop:	HLO 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:

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Sample HL Segment

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HL*2*1*O

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Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
>>	**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**	**M AN 1/12**
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
			ID number of the Shipment Level (HL01)	
>>	**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:	050		
Loop:	HLO Mandatory		
Level:	Detail:		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To provide reference to a specific purchase order		
Syntax Notes:			
Semantic Notes:	**1** PRF04 is the date assigned by the purchaser to purchase order.		
Comments:			

Notes:

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Sample PRF Segment
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If you are receiving POs in version 4010, the PO numbers will be as follows:
PRF*1234-1234567-1234***20000226

PRF*1234-1234567***20000226

If you are receiving POs in a version less then 4010, the PO number will be as follows:
PRF*3635671***20000330
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Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
>> **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		
PRF02	328	**Release Number**	**O**	**AN 1/30**
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
		Not used by DSD		
PRF03	327	**Change Order Sequence Number**	**O**	**AN 1/8**
		Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set		
		Not used by DSD		
PRF04	373	**Date**	**O**	**DT 8/8**
		Date expressed as CCYYMMDD		
		Retailer's original purchase order date		

			Segment:	**N1** Name

Segment: **N1** Name
Position: 220
Loop: N1   Mandatory
Level: Detail:
Usage: Mandatory
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: **

Sample N1 Segment
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N1*BY**92*3029
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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			BY Buying Party (Purchaser)		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Used when shipment is a drop shipment or special order		
>>	N103	66	**Identification Code Qualifier**	M	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
>>	N104	67	**Identification Code**	M	AN 2/80
			Code identifying a party or other code		
			This is the location code as defined by N103.		

	Segment:	**N3** Address Information
	Position:	240
	Loop:	N1 Mandatory
	Level:	Detail:
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify the location of the named party
	Syntax Notes:	
	Semantic Notes:	
	Comments:	
	Notes:	

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This segment is used if the shipment is a drop shipment or special order

Sample N3 Segment

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N3*250 RITTENHOUSE CIRCLE
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Data Element Summary

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

Segment:		**N4** Geographic Location			

Segment: **N4** Geographic Location
Position: 250
Loop: N1   Mandatory
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.
Notes: ***

This segment is used if the shipment is a drop shipment or special order

Sample N4 Segment
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N4*BRISTOL*PA*19007
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Data Element Summary

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

Segment:		**HL** Hierarchical Level - Pack		

Segment: **HL** Hierarchical Level - Pack

Position: 010
Loop: HLP 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:
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Sample HL Segment

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HL*3*2*P
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Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> **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**	**M AN 1/12**
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
		ID number of the Order Level (HL01) when sending Pick & Pack.	
>> **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:	060
Loop:	HLP Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item

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

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

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

Notes:

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This segment required for Standard Pack.

Sample PO4 Segment

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PO4*24

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Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
PO401	356	Pack	O	N0 1/6
		The number of inner containers, or number of eaches if there are no inner containers, per outer container		
		The number of inner cartons or the number of selling units in the carton is there are no inner packs.		
PO402	357	Size	X	R 1/8
		Size of supplier units in pack		
		Not used by DSD		
PO403	355	Unit or Basis for Measurement Code	X	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		Not used by DSD		
PO404	103	Packaging Code	X	AN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required		
		Not used by DSD		

	PCK	Packed - not otherwise specified		
	71	Not Otherwise Specified		

PO405   **187**   **Weight Qualifier**   **O**   **ID 1/2**

Code defining the type of weight

Not used by DSD

PO406   **384**   **Gross Weight per Pack**   **X**   **R 1/9**

Numeric value of gross weight per pack

Not used by DSD

PO407   **355**   **Unit or Basis for Measurement Code**   **X**   **ID 2/2**

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

Not used by DSD

PO408   **385**   **Gross Volume per Pack**   **X**   **R 1/9**

Numeric value of gross volume per pack

Not used by DSD

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

Not used by DSD

PO410   **82**   **Length**   **X**   **R 1/8**

Largest horizontal dimension of an object measured when the object is in the upright position

Not used by DSD

PO411   **189**   **Width**   **X**   **R 1/8**

Shorter measurement of the two horizontal dimensions measured with the object in the upright position

Not used by DSD

PO412   **65**   **Height**   **X**   **R 1/8**

Vertical dimension of an object measured when the object is in the upright position

Not used by DSD

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

Not used by DSD

PO414   **810**   **Inner Pack**   **O**   **N0 1/6**

The number of eaches per inner container

	Segment:	**PKG** Marking, Packaging, Loading
	Position:	100
	Loop:	HLP Mandatory
	Level:	Detail:
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To describe marking, packaging, loading, and unloading requirements

	Syntax Notes:	1	At least one of PKG04 PKG05 or PKG06 is required.
		2	If PKG04 is present, then PKG03 is required.
		3	If PKG05 is present, then PKG01 is required.
	Semantic Notes:	1	PKG04 should be used for industry-specific packaging description codes.
	Comments:	1	Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
		2	If 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.
		3	Use PKG03 to indicate the organization that publishes the code list being referred to.
		4	Special marking or tagging data can be given in PKG05 (description).

Notes:
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************************************************************
Sample PKG Segment
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PKG*S*36*VI*PO1
************************************************************
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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	PKG01	349	**Item Description Type**	M ID 1/1
			Code indicating the format of a description	
			S Structured (From Industry Code List)	
>>	PKG02	753	**Packaging Characteristic Code**	M ID 1/5
			Code specifying the marking, packaging, loading and related characteristics being described	
			36 Package Specifications	
>>	PKG03	559	**Agency Qualifier Code**	M ID 2/2
			Code identifying the agency assigning the code values	
			VI Voluntary Inter-Industry Commerce Standard (VICS) EDI	
>>	PKG04	754	**Packaging Description Code**	M AN 1/7
			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 (GOH; Trolley or Racks - used only with 06 from Part 2); P=Physical Container (Carton - used with 01-05 from Part 2)

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 - used only with 'L' from Part 1)

DSD will be using the Container Type description information, not the Service Type.

Segment:		MAN **Marks and Numbers**		

Segment: MAN **Marks and Numbers**
Position: 190
Loop: HLP   Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
   1   If either MAN04 or MAN05 is present, then the other is required.
   2   If MAN06 is present, then MAN05 is required.
Semantic Notes:
   1   MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
   2   When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
   3   When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:
   1   When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
   2   MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:
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Sample MAN Segment
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MAN*GM*00000475960002714179
****

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	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	
>>	MAN02	87	**Marks and Numbers**	M AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
			This is the 20-character code. The symbology code and the modulo 103 check digit are not included.	

Segment:	**HL** Hierarchical Level - Item
Position:	010
Loop:	HLI 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:
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************************************************************
Sample HL Segment

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HL*4*3*I
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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	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	M	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
			ID number of the Carton Level (HL01) when sending Pick & Pack. When sending Standard Pack, the Item Level will follow the order and contain the Order ID number.		
>>	HL03	735	Hierarchical Level Code	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			I Item		

Segment:		**LIN** Item Identification		
Position:		020		
Loop:		HLI Mandatory		
Level:		Detail:		
Usage:		Mandatory		
Max Use:		1		
Purpose:		To specify basic item identification data		
Syntax Notes:		1	If either LIN04 or LIN05 is present, then the other is required.	
		2	If either LIN06 or LIN07 is present, then the other is required.	
		3	If either LIN08 or LIN09 is present, then the other is required.	
		4	If either LIN10 or LIN11 is present, then the other is required.	
		5	If either LIN12 or LIN13 is present, then the other is required.	
		6	If either LIN14 or LIN15 is present, then the other is required.	
		7	If either LIN16 or LIN17 is present, then the other is required.	
		8	If either LIN18 or LIN19 is present, then the other is required.	
		9	If either LIN20 or LIN21 is present, then the other is required.	
		10	If either LIN22 or LIN23 is present, then the other is required.	
		11	If either LIN24 or LIN25 is present, then the other is required.	
		12	If either LIN26 or LIN27 is present, then the other is required.	
		13	If either LIN28 or LIN29 is present, then the other is required.	
		14	If either LIN30 or LIN31 is present, then the other is required.	
Semantic Notes:		1	LIN01 is the line item identification	
Comments:		1	See the Data Dictionary for a complete list of IDs.	
		2	LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.	

Notes:

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Sample LIN Segment

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*LIN**UP*047596438220*
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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		
			Not used by DSD		
>>	**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)		
>>	**LIN03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Identifying number for a product or service		
			UPC code has 12 digits		
			EAN code has 13 digits		

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

Sample SN1 Segment

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SN1**3*EA

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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	
			Not used by DSD	
>>	**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	
>>	**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	

		CTT Transaction Totals	

Segment: **CTT** Transaction Totals

Position:	010
Loop:	
Level:	Summary:
Usage:	Mandatory
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.
Notes:	**

Sample CTT Segment

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CTT*4

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Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	CTT01	354	**Number of Line Items**	M N0 1/6
			Total number of line items in the transaction set	
			The number of HL segments present in the transaction set	

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

Notes:

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Sample SE Segment

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SE*21*0001
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**********************************************************
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Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> SE01	96	**Number of Included Segments**	**M N0 1/10**
		Total number of segments included in a transaction set including ST and SE segments	
>> 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 as in the ST segment (ST02) for the transaction set.	