

# **Lacks Enterprises**

## **856 - ASN Advance**

### **Ship Notice**

**ANSI X12**

**Version 004010**



# 856 Advance Ship Notice

## Transaction Layout:

### Heading:

Req	Seg ID	Name	Req Des	Max Use	Loop Repeat
Required	ST	Transaction Set Header	M	1	
Required	BSN	Beginning Segment for Ship Notice	M	1	
Required	DTM	Date/Time Release	O	10	

### Detail:

Req	Seg ID	Name	Req Des	Max Use	Loop Repeat
		LOOP ID HL			200000
Required	HL	Hierarchical Level	M	1	
Required	MEA	Measurements	O	40	
Required	TD1	Carrier Details (Quantity & Weights)	O	20	
Required	TD5	Carrier Details (Routing Sequence /Transit Time	O	12	
Required	TD3	Carrier Details (Equipment)	O	12	
Required	REF	Reference Identification	O	>1	
	N1	Name	O	1	

LOOP ID N1					200
Required	N1	Name	O	1	
LOOP ID HL					200000
Required	HL	Hierarchical Level	M	1	
Required	LIN	Item Identification	O	1	
Required	SN1	Item Detail (Shipment)	O	1	
LOOP ID CLD					200
Required	CLD	Load Detail	O	1	
Required	REF	Reference Identification	O	200	

### Summary:

Req	Pos No	Seg ID	Name	Req Des	Max Use	Loop Repeat	Notes and Examples
Required		CTT	Transaction Totals	M	1		
Required		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.
2. 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

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of a transaction set and to assign a control number

**Semantic Notes:** The transaction set identifier (ST01) is used by the translation routines of the Interchange partners to select the appropriate transaction set.

**Examples:** ST\*856\*30001~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 856 X12 Ship Notice/Manifest	M ID 3/3
Required	ST02	329	<b>Transaction Set Control Number</b> 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  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.  
 2 BSN04 is the time the shipment transaction set is created.

**Examples:** BSN\*00\*12345678\*20070226\*1410~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	BSN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set	M ID 2/2
Required	BSN02	396	<b>Shipment Identification</b> A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
<i>ASN Number – unique supplier assigned number that is not repeated within a one year period. Lacks recommends using the packing slip number.</i>				
Required	BSN03	373	<b>Date</b> Date expressed as CCYYMMDD <i>Date ASN created</i>	M DT 8/8
Required	BSN04	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM <i>Time ASN created</i>	M TM 4/8

**Segment:** **DTM** Date/Time Reference

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Semantic Notes:** If DTM04 is present, then DTM03 is required.

**Examples:** DTM\*011\*20070226\*1410\*ET~

Data Element Summary				
Req.	Ref.	Data		
Req.	Des.	Element	Name	Attributes
Required	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
Required	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD <i>The local shipment date</i>	C DT 8/8
Required	DTM03	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM <i>The local shipment time</i>	C TM 4/8
Optional	DTM04	623	<b>Time Code</b> Code identifying the time. Use an appropriate code. Some typical codes from ASC X12 Data Element Dictionary are: CD Central Daylight Time CS Central Standard Time CT Central Time ED Eastern Daylight Time ES Eastern Standard Time ET Eastern Time GM Greenwich Mean Time MD Mountain Daylight Time MS Mountain Standard Time MT Mountain Time PD Pacific Daylight Time PS Pacific Standard Time PT Pacific Time	O ID 2/2

**Segment:** **HL** Hierarchical Level  
**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

- Semantic Notes:**
- 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.

**Examples:** HL\*1\*\*S~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>"1" in the initial HL segment, incrementing by 1 each subsequent HL segment within the transaction.</i>	<b>M AN 1/12</b>
	HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data Segment being described is subordinate to <i>Required except for Shipment level</i>	<b>O AN 1/12</b>
Required	HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure S Shipment	<b>M ID 1/2</b>

**Segment:** **MEA** Measurements  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 40  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

**Semantic Notes:** MEA04 defines the unit of measure for MEA03.

**Examples:** MEA\*PD\*G\*15000\*LB~  
 MEA\*PD\*N\*14000\*LB~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies PD Physical Dimensions	O ID 2/2
Required	MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies G Gross Weight N Actual Net Weight	O ID 1/3
Required	MEA03	739	<b>Measurement Value</b> The value of the measurement	C R 1/20
	MEA04	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed or manner in which a measurement has been taken LB Pound	M ID 2/2



**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity

**Semantic Notes:** IF TD101 is present, then TD102 is required.

**Examples:** TD1\*CTN25\*12~

**Notes:** *Required Lacks at the Shipment level to indicate the total number of higher level packages (pallets, skids, etc.) on the shipment.*

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	TD101	103	<b>Packaging Code</b> 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 Use these specified codes: CTN25 Carton PLT90 Pallet	O AN 3/5
Required	TD102	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity	C N0 1/7

**Segment:** **TD5** **Carrier Details (Routing Sequence/Transit Time)**  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify the carrier and sequence of routing and provide transit time information

**Semantic Notes:** 1 If TD502 is present, then TD503 is required.  
2 If TD507 is present, then TD508 is required.

**Examples:** TD5\*B\*2\*ZIXP\*LT~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	TD501	133	<b>Routing Sequence Code</b> Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	O ID 1/2
Required	TD502	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	C ID 1/2
Required	TD503	67	<b>Identification Code</b> Code identifying a party or other code <i>Valid, mutually agreed SCAC Code</i>	C AN 2/80
Required	TD504	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment. Some typical codes from ASC X12 Data Element Dictionary are: A Air AE Air Express D Parcel Post E Expedited Truck LT Less Than Trailer Load (LTL) M Motor (Common Carrier) O Containerized Ocean R Rail	C ID 1/2
	TD505	387	<b>Routing</b> Free-form description of the routing or requested routing for shipment, or the Originating carrier's identity <i>Carrier Text Name</i>	C AN 1/35
	TD507	309	<b>Location Qualifier</b> Code identifying type of location OR Origin (Shipping Point) PE Port of Entry (Port where customs is declared) PP Pool Point	O ID 1/2
	TD508	310	<b>Location Identifier</b> Code which identifies a specific location <i>If TD507 = "PP" use pool point shown on Supplier Routing Instructions. If TD507 = "OR" use originating airport code from airbill</i>	X AN 1/30

**Segment:** **TD3** Carrier Details (Equipment)  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Semantic Notes:** If TD302 is present, then TD303 is required.

**Examples:** TD3\*TL\*\*211~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	TD301	40	<b>Equipment Description Code</b> Code identifying type of equipment used for shipment <i>Use any valid code from the ANSI X12 v4010 dictionary</i> Example TL Trailer	C ID 2/2
	TD302	206	<b>Equipment Initial</b> Prefix or alphabetic part of an equipment unit's identifying number <i>Use alpha portion of the Equipment ID</i>	O AN 1/4
Required	TD303	207	<b>Equipment Number</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) <i>Trailer number, Flight number, or Railcar number</i>	C AN 1/10

**Segment:** **REF** Reference Identification  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information

**Examples:** **REF\*PK\*07042404~**  
**REF\*BM\*07042404**  
**~**

**Notes:** *At least one REF segment with a "PK" qualifier (Packing Slip Number) is required at this level.*

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification. Use an appropriate code. Some typical codes from ASC X12 Data Element Dictionary are: AW Air Waybill Number BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice) FR Freight Bill Number MB Master Bill of Lading PK Packing List Number SI Shippers Identifying Number for Shipment (SID)	<b>M ID 2/3</b>
Required	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>C AN 1/30</b>

**Segment:** **N1** Name  
**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:** 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.

**Examples:** N1\*ST\*\*92\*0999~  
N1\*Sf\*\*92\*123456~  
N1\*SU\*\*92\*123456~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	N101	98	<b>Entity Identifier Code</b>	<b>M ID 2/3</b>
			Code identifying an organizational entity, a physical location, property or an Individual	
			SF Ship From	
			ST Ship To	
			SU Supplier/Manufacturer shipment	
	N102	93	<b>Name</b>	<b>C AN 1/60</b>
			Free-form name	
Required	N103	66	<b>Identification Code Qualifier</b>	<b>C ID 1/2</b>
			Code designating the system/method of code structure used for Identification	
			92 Assigned by Buyer or Buyer's Agent	
Required	N104	67	<b>Identification Code</b>	<b>C AN 2/80</b>
			Code identifying a party or other code	
			This should contain the same value that is found in the N104 element of the 830 to the supplier.	

**Segment:** **HL** Hierarchical Level  
**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

- Semantic Notes:**
- 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.

**Examples:** HL\*2\*1\*I

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>"1" in the initial HL segment, incrementing by 1 each subsequent HL segment within the transaction</i>	M AN 1/12
Required	HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data Segment being described is subordinate to	O AN 1/12
Required	HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure O Order/Item	M ID 1/2

**Segment:** **LIN** Item Identification  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Syntax Notes:** 1 If either LIN04 or LIN05 is present, then the other is required  
2 If either LIN06 or LIN07 is present, then the other is required  
  
**Examples:** LIN\*\*BP\*8765432-1234\*PO\*405503~

Req.	Ref. Des.	Data Element	Name Attributes
Required	LIN02	235	<b>Product/Service ID Qualifier</b> M ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number
Required	LIN03	234	<b>Product/Service ID</b> M AN 1/48 Identifying number for a product or service <i>Lacks part number</i>
Required	LIN04	235	<b>Product/Service ID Qualifier</b> C ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number
Required	LIN05	234	<b>Product/Service ID</b> M AN 1/48 Identifying number for a product or service <i>Use PO Number provided in the releasing documents (e.g., 830,862)</i>

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 030  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment

**Examples:** SN1\*\*1758\*PC\*86223~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	SN102	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set <i>Number of parts (quantity shipped) for the Buyer's Part indicated in the LIN segment</i>	<b>M R 1/10</b>
Required	SN103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <i>Refer to the part unit of measure on your Supplier Release</i> <i>Please send the same UOM code in the SN103 segment that is being sent in the UIT01 value of the 830 for the specific part#. If different, your ASN will fail.</i>	<b>M ID 2/2</b>
	SN104	646	<b>Shipped to Date</b> Number of units shipped to date <i>YTD cumulative for current model year, including this shipment.</i>	<b>O R 1/15</b>



**Segment:** **HL** **Hierarchical Level**  
**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

- Semantic Notes:**
- 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.

**Examples:** HL\*2\*1\*T

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>"1" in the initial HL segment, incrementing by 1 each subsequent HL segment within the transaction</i>	<b>M AN 1/12</b>
Required	HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data Segment being described is subordinate to	<b>O AN 1/12</b>
Required	HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure T Tare (Master)	<b>M ID 1/2</b>

**Segment:** **CLD** Load Detail  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the number of material loads shipped

**Examples:** CLD\*6\*293\*CTN25~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	CLD01	622	<b>Number of Loads</b> Number of customer-defined loads shipped by the supplier <i>Number of Containers</i>	M N0 1/5
Required	CLD02	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set. Total number of units in container	M R 1/10
Required	CLD03	103	<b>Packaging Code</b> 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. Select from one of the following codes: CTN25 Carton PLT90 Pallet	O AN 3/5

**Segment:** **REF** Reference Identification  
**Loop:** CLD Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 200  
**Purpose:** To specify identifying information

**Examples:** REF\*LS\*1234560001~

#### Data Element Summary

	Def.	Data		
Req.	Des.	Element	Name	Attributes
Required	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification.  LS <i>Bar-Coded Serial Number</i> <i>Serial number (per Lacks label spec) is the Lacks supplier number (N1,SF,03) plus incrementing serial number.</i>	M ID 2/3
Required	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/30

**Segment:** **HL** Hierarchical Level  
**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

- Semantic Notes:**
- 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.

**Examples:** HL\*2\*1\*I

			Data Element Summary		eq.
			Des.	Element Name Attributes	
Required	HL01	628	<b>Hierarchical ID Number</b>	M AN 1/12 A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>"1" in the initial HL segment, incrementing by 1 each subsequent HL segment within the transaction</i>	
Required	HL02	734	<b>Hierarchical Parent ID Number</b>	O AN 1/12 Identification number of the next higher hierarchical data segment that the data Segment being described is subordinate to	
Required	HL03	735	<b>Hierarchical Level Code</b>	M ID 1/2 Code defining the characteristic of a level in a hierarchical structure	
			I	Item	

**Segment:** **CLD** Load Detail  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the number of material loads shipped

**Examples:** CLD\*6\*293\*CTN25~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	CLD01	622	<b>Number of Loads</b> Number of customer-defined loads shipped by the supplier <i>Number of Containers</i>	M N0 1/5
Required	CLD02	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set. Total number of units in container	M R 1/10
Required	CLD03	103	<b>Packaging Code</b> 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. Select from one of the following codes: CTN25 Carton PLT90 Pallet	O AN 3/5

**Segment:** **REF** Reference Identification  
**Loop:** CLD Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 200  
**Purpose:** To specify identifying information

**Examples:** REF\*LS\*1234560001~

### Data Element Summary

Ref.		Data	
Req.	Des.	Element Name	Attributes
Required	REF01	128	<b>Reference Identification Qualifier</b> <span style="float:right">M ID 2/3</span> Code qualifying the Reference Identification.
		LS	<i>Bar-Coded Serial Number</i> <i>Serial number (per Lacks label spec) is the Lacks supplier number (N1,SF,03) plus incrementing serial number</i>
Required	REF02	127	<b>Reference Identification</b> <span style="float:right">C AN 1/30</span> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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

**Semantic Notes:** This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Examples:** CTT\*2\*500~

Data Element Summary				
Ref.	Data			
Req.	Des.	Element	Name	Attributes
Required	CTT01	354	<b>Number of Line Items</b> Total number of line items in the transaction set <i>Total number of HL loops with LIN segment in transaction</i>	M N0 1/6

**Segment:**     **SE** Transaction Set Trailer

**Position:**

**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**

<b>Ref.</b>	<b>Data</b>			
<b>Des.</b>	<b>Elmt.</b>	<b>Name</b>	<b>Attributes</b>	
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		



**856 (ASN) Advance Ship Notice v4010**  
**Lacks 856 Example:**

ISA\*00\*                  \*00\*                  \*ZZ\*SUPPLIER                  \*ZZ\*618232144-S  
\*072020\*1542\*U\*00400\*000000004\*0\*P\*~  
GS\*SH\*SUPPLIER\*618232144-S\*2020720\*1542\*4\*X\*4010  
ST\*856\*0001  
BSN\*00\*1234567\*20200720\*2040  
DTM\*011\*20200720\*1540\*ED  
HL\*1\*\*S  
MEA\*PD\*G\*410\*LB  
MEA\*PD\*N\*250\*LB  
TD1\*CTN25\*80  
TD1\*PLT90\*4  
REF\*PK\*1234567  
N1\*SF\*ABC CORPORATION\*92\*123456  
N1\*SU\*ABC CORPORATION\*92\*123456  
N1\*ST\*LACKS TRIM SYSTEMS - Kraft Assembly\*92\*1020  
HL\*2\*1\*O  
LIN\*\*BP\*N1040498\*PO\*SS2044  
SN1\*\*1000\*EA\*105252  
HL\*3\*2\*T  
CLD\*1\*500\*PLT90  
REF\*LS\*123456141  
HL\*4\*3\*I  
CLD\*20\*25\*CTN25  
REF\*LS\*123456101  
REF\*LS\*123456102  
REF\*LS\*123456103  
REF\*LS\*123456104  
REF\*LS\*123456105  
REF\*LS\*123456106  
REF\*LS\*123456107  
REF\*LS\*123456108  
REF\*LS\*123456109  
REF\*LS\*123456110  
REF\*LS\*123456111  
REF\*LS\*123456112  
REF\*LS\*123456113  
REF\*LS\*123456114  
REF\*LS\*123456115  
REF\*LS\*123456116  
REF\*LS\*123456117  
REF\*LS\*123456118  
REF\*LS\*123456119  
REF\*LS\*123456120  
HL\*5\*2\*T  
CLD\*1\*500\*PLT90  
REF\*LS\*1234560142  
HL\*6\*5\*I  
CLD\*20\*25\*CTN25  
REF\*LS\*123456121  
REF\*LS\*123456122  
REF\*LS\*123456123  
REF\*LS\*123456124  
REF\*LS\*123456125  
REF\*LS\*123456126  
REF\*LS\*123456127  
REF\*LS\*123456128  
REF\*LS\*123456129  
REF\*LS\*123456130

REF\*LS\*123456131  
REF\*LS\*123456132  
REF\*LS\*123456133  
REF\*LS\*123456134  
REF\*LS\*123456135  
REF\*LS\*123456136  
REF\*LS\*123456137  
REF\*LS\*123456138  
REF\*LS\*123456139  
REF\*LS\*123456140  
HL\*7\*1\*O  
LIN\*\*BP\*93735-ZH40A\*PO\*SS2044\*  
SN1\*\*1000\*EA  
HL\*8\*7\*T  
CLD\*1\*500\*PLT90  
REF\*LS\*123456183  
HL\*9\*8\*I  
CLD\*20\*25\*CTN25  
REF\*LS\*123456143  
REF\*LS\*123456144  
REF\*LS\*123456145  
REF\*LS\*123456146  
REF\*LS\*123456147  
REF\*LS\*123456148  
REF\*LS\*123456149  
REF\*LS\*123456150  
REF\*LS\*123456151  
REF\*LS\*123456152  
REF\*LS\*123456153  
REF\*LS\*123456154  
REF\*LS\*123456155  
REF\*LS\*123456156  
REF\*LS\*123456157  
REF\*LS\*123456158  
REF\*LS\*123456159  
REF\*LS\*123456160  
REF\*LS\*123456161  
REF\*LS\*123456162  
HL\*10\*7\*T  
CLD\*1\*500\*PLT90  
REF\*LS\*123456184  
HL\*11\*10\*I  
CLD\*20\*25\*CTN25  
REF\*LS\*123456163  
REF\*LS\*123456164  
REF\*LS\*123456165  
REF\*LS\*123456166  
REF\*LS\*123456167  
REF\*LS\*123456168  
REF\*LS\*123456169  
REF\*LS\*123456170  
REF\*LS\*123456171  
REF\*LS\*123456172  
REF\*LS\*123456173  
REF\*LS\*123456174  
REF\*LS\*123456175  
REF\*LS\*123456176  
REF\*LS\*123456177  
REF\*LS\*123456178  
REF\*LS\*123456179  
REF\*LS\*123456180  
REF\*LS\*123456181  
REF\*LS\*123456182

CTT\*2  
SE\*25\*0001  
GE\*1\*4  
IEA\*1\*000000004

