856   Ship Notice/Manifest

Functional Group=SH

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	Id	Segment Name	Req	Max Use	Repeat	Notes
010	ST	Transaction Set Header	M	1		
020	BSN	Beginning Segment for Ship Notice	M	1		
040	DTM	Date/Time Reference	O	10		

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - HL					**200000**	
010	HL	Hierarchical Level	M	1		C2/010
020	LIN	Item Identification	O	1		
030	SN1	Item Detail (Shipment)	O	1		
040	SLN	Subline Item Detail	O	1000		
050	PRF	Purchase Order Reference	O	1		
190	MAN	Marks and Numbers	O	>1		

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	CTT	Transaction Totals	O	1		N3/010
020	SE	Transaction Set Trailer	M	1		

Notes:

3/010   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.

Comments:

2/010   The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

ST   Transaction Set Header

<table>
<tr><td>Pos: 010</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ST01	**143**	**Transaction Set Identifier Code**	**M**	**ID**	**3/3**
		Description: Code uniquely identifying a Transaction Set			

Code	NAME
856	Ship Notice/Manifest

Ref	Id	Element Name	Req	Type	Min/Max
ST02	**329**	**Transaction Set Control Number**	**M**	**AN**	**4/9**
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			

Semantics:

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).

BSN   Beginning Segment for Ship Notice

Pos: 020   Max: 1
Heading - Mandatory
Loop: N/A   Elements: 5

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
BSN01	**353**	**Transaction Set Purpose Code**	**M**	**ID**	**2/2**

Description: Code identifying purpose of transaction set

Code NAME

00   Original

Ref	Id	Element Name	Req	Type	Min/Max
BSN02	**396**	**Shipment Identification**	**M**	**AN**	**2/30**

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

Ref	Id	Element Name	Req	Type	Min/Max
BSN03	**373**	**Date**	**M**	**DT**	**8/8**

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max
BSN04	**337**	**Time**	**M**	**TM**	**4/8**

Description: 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)

Ref	Id	Element Name	Req	Type	Min/Max
BSN05	**1005**	**Hierarchical Structure Code**	**O**	**ID**	**4/4**

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

Code NAME

0001   Shipment,Packaging, Item

Syntax:

1.   BSN07 C0706 -- If BSN07 is present, then BSN06 is required

Semantics:

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.

DTM Date/Time Reference

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
DTM01	**374**	**Date/Time Qualifier**	**M**	**ID**	**3/3**

Description: Code specifying type of date or time, or both date and time

Code	NAME
011	Shipped

Ref	Id	Element Name	Req	Type	Min/Max
DTM02	**373**	**Date**	**C**	**DT**	**8/8**

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max
DTM03	**337**	**Time**	**C**	**TM**	**4/8**

Description: 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)

Ref	Id	Element Name	Req	Type	Min/Max
DTM04	**623**	**Time Code**	**O**	**ID**	**2/2**

Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Code	NAME
ES	Eastern Standard Time

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.C0403 -- If DTM04 is present, then DTM03 is requiredP0506 -- If either DTM05 or DTM06 are present, then the others are required.

HL   Hierarchical Level

Pos: 010	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 4**

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number**	**M**	**AN**	**1/12**

Description: 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**

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

HL03	735	**Hierarchical Level Code**	**M**	**ID**	**1/2**

Description: Code defining the characteristic of a level in a hierarchical structure

Code	NAME
I	Item
O	Order
P	Pack
S	Shipment
T	Shipping Tare

HL04	736	**Hierarchical Child Code**	**O**	**ID**	**1/1**

Description: Code indicating if there are hierarchical child data segments subordinate to the level being described

Code	NAME
0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

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.
2. The HL segment defines a top-down/left-right ordered structure.
3. 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.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

LIN   Item Identification

<table>
<tr><td>Pos: 020</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: HL</td><td>Elements: 3</td></tr>
</table>

To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
LIN01	350	**Assigned Identification**	**O**	**AN**	**1/20**
		Description: Alphanumeric characters assigned for differentiation within a transaction set			
LIN02	235	**Product/Service ID Qualifier**	**M**	**ID**	**2/2**
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)			

Code NAME

VC   Vendor's (Seller's) Catalog Number

Ref	Id	Element Name	Req	Type	Min/Max
LIN03	234	**Product/Service ID**	**M**	**AN**	**1/48**
		Description: Identifying number for a product or service			

Syntax:

1. LIN04 P0405 -- If either LIN04 or LIN05 are present, then the others are required.
2. LIN06 P0607 -- If either LIN06 or LIN07 are present, then the others are required.
3. LIN08 P0809 -- If either LIN08 or LIN09 are present, then the others are required.
4. LIN10 P1011 -- If either LIN10 or LIN11 are present, then the others are required.
5. LIN12 P1213 -- If either LIN12 or LIN13 are present, then the others are required.
6. LIN14 P1415 -- If either LIN14 or LIN15 are present, then the others are required.
7. LIN16 P1617 -- If either LIN16 or LIN17 are present, then the others are required.
8. LIN18 P1819 -- If either LIN18 or LIN19 are present, then the others are required.
9. LIN20 P2021 -- If either LIN20 or LIN21 are present, then the others are required.
10. LIN22 P2223 -- If either LIN22 or LIN23 are present, then the others are required.
11. LIN24 P2425 -- If either LIN24 or LIN25 are present, then the others are required.
12. LIN26 P2627 -- If either LIN26 or LIN27 are present, then the others are required.
13. LIN28 P2829 -- If either LIN28 or LIN29 are present, then the others are required.
14. LIN30 P3031 -- If either LIN30 or LIN31 are present, then the others are required.

Semantics:

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.

SN1   Item Detail (Shipment)

<div style="border:1px solid">
Pos: 030   Max: 1
Detail - Optional
Loop: HL   Elements: 3
</div>

To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SN101	350	**Assigned Identification**	O	AN	1/20
		Description: Alphanumeric characters assigned for differentiation within a transaction set			
SN102	382	**Number of Units Shipped**	M	R	1/10
		Description: 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
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			

Code	NAME
BX	Box
CA	Case
EA	Each
PK	Package
PR	Pair

Syntax:

1. SN105 P0506 -- If either SN105 or SN106 are present, then the others are required.

Semantics:

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

Comments:

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

SLN   Subline Item Detail

Pos: 040	Max: 1000
Detail - Optional	
Loop: HL	Elements: 5

To specify product subline detail item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SLN01	**350**	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20
SLN02	**350**	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20
SLN03	**662**	**Relationship Code** **Description:** Code indicating the relationship between entities	M	ID	1/1

Code NAME

  I   Included

Ref	Id	Element Name	Req	Type	Min/Max
SLN09	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2

Code NAME

  LT   Lot Number

Ref	Id	Element Name	Req	Type	Min/Max
SLN10	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	C	AN	1/48

Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

1. SLN01 is the identifying number for the subline item.

2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

PRF   **Purchase Order Reference**

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

To provide reference to a specific purchase order

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PRF01	**324**	**Purchase Order Number**	M	AN	1/22
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser			
PRF02	**328**	**Release Number**	O	AN	1/30
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction			
PRF03	**327**	**Change Order Sequence Number**	O	AN	1/8
		Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set			
PRF04	**373**	**Date**	O	DT	8/8
		Description: Date expressed as CCYYMMDD			
PRF05	**350**	**Assigned Identification**	O	AN	1/20
		Description: Alphanumeric characters assigned for differentiation within a transaction set			
PRF06	**367**	**Contract Number**	O	AN	1/30
		Description: Contract number			
PRF07	**92**	**Purchase Order Type Code**	O	ID	2/2
		Description: Code specifying the type of Purchase Order			

Code NAME

SA   Stand-alone Order
SS   Supply or Service Order

Semantics:

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

MAN   Marks and Numbers

Pos: 190   Max: >1
Detail - Optional
Loop: HL   Elements: 3

To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
MAN01	88	**Marks and Numbers Qualifier**	**M**	**ID**	**1/2**

Description: Code specifying the application or source of Marks and Numbers (87)

Code	NAME
GM	SSCC-18 and Application Identifier
SM	Shipper Assigned

Ref	Id	Element Name	Req	Type	Min/Max
MAN02	87	**Marks and Numbers**	**M**	**AN**	**1/48**

Description: Marks and numbers used to identify a shipment or parts of a shipment

Ref	Id	Element Name	Req	Type	Min/Max
MAN03	87	**Marks and Numbers**	**O**	**AN**	**1/48**

Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax:

1. MAN04 P0405 -- If either MAN04 or MAN05 are present, then the others are required.
2. MAN06 C0605 -- If MAN06 is present, then MAN05 is required

Semantics:

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.
3. 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.

CTT   Transaction Totals

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
CTT01	354	**Number of Line Items**	M	N0	1/6
		Description: Total number of line items in the transaction set			
CTT02	347	**Hash Total**	O	R	1/10
		Description: 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 beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.---------1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field.			

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

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

SE Transaction Set Trailer

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SE01	**96**	**Number of Included Segments**	**M**	**N0**	**1/10**
		Description: Total number of segments included in a transaction set including ST and SE segments			
SE02	**329**	**Transaction Set Control Number**	**M**	**AN**	**4/9**
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			

Comments:

1. SE is the last segment of each transaction set.