856 Ship Notice/Manifest

Functional Group=SH

This standard provides the standardized format and establishes the data contents of a ship notice/manifest transaction set. A ship notice/manifest lists 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
10	ST	Transaction Set Header	M	1		
20	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - HL					**200000**	**C2/ 10L**
10	HL	Hierarchical Level	M	1		C2/ 10
20	LIN	Item Identification	O	1		
30	SN1	Item Detail (Shipment)	O	1		
50	PRF	Purchase Order Reference	O	1		
70	PID	Product/Item Description	O	200		
110	TD1	Carrier Details (Quantity and Weight)	O	20		
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
130	TD3	Carrier Details (Equipment)	O	12		
150	REF	Reference Numbers	O	200		
190	MAN	Marks and Numbers	O	10		
200	DTM	Date/Time Reference	O	10		
210	FOB	F.O.B. Related Instructions	O	1		
LOOP ID - N1					**200**	
220	N1	Name	O	1		
240	N3	Address Information	O	2		
250	N4	Geographic Location	O	1		

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
10	CTT	Transaction Totals	M	1		N3/ 10
20	SE	Transaction Set Trailer	M	1		

Notes:

3/ 10 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/ 10L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

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ST Transaction Set Header

Pos: 10 **Max: 1**
Heading - Mandatory
Loop: N/A **Elements: 2**

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
ST02	329	**Transaction Set Control Number**	M	AN	4/9

Comments:

1. The transaction set identifier (ST01) is intended for use 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: 20 **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
BSN02	396	**Shipment Identification**	M	AN	2/30
BSN03	373	**Date**	M	DT	6/6
BSN04	337	**Time**	M	TM	4/6
BSN05	1005	**Hierarchical Structure Code**	O	ID	4/4

Comments:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

Loop HL

Pos: 10	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat
10	HL	Hierarchical Level	M	1	
20	LIN	Item Identification	O	1	
30	SN1	Item Detail (Shipment)	O	1	
50	PRF	Purchase Order Reference	O	1	
70	PID	Product/Item Description	O	200	
110	TD1	Carrier Details (Quantity and Weight)	O	20	
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
130	TD3	Carrier Details (Equipment)	O	12	
150	REF	Reference Numbers	O	200	
190	MAN	Marks and Numbers	O	10	
200	DTM	Date/Time Reference	O	10	
210	FOB	F.O.B. Related Instructions	O	1	
220		Loop N1	O		200

HL Hierarchical Level

Pos: 10 **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
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12
HL03	735	**Hierarchical Level Code**	M	ID	1/2
HL04	736	**Hierarchical Child Code**	O	ID	1/1

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

Pos: 20	Max: 1
Detail - Optional	
Loop: HL	Elements: 9

To specify basic item identification data.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
LIN01	350	**Assigned Identification**	O	AN	1/11
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2
LIN03	234	**Product/Service ID**	M	AN	1/30
LIN04	235	**Product/Service ID Qualifier**	O	ID	2/2
LIN05	234	**Product/Service ID**	X	AN	1/30
LIN06	235	**Product/Service ID Qualifier**	O	ID	2/2
LIN07	234	**Product/Service ID**	X	AN	1/30
LIN08	235	**Product/Service ID Qualifier**	O	ID	2/2
LIN09	234	**Product/Service ID**	X	AN	1/30

Syntax:

1. C0405 - If LIN04 is present, then all of LIN05 are required
2. C0607 - If LIN06 is present, then all of LIN07 are required
3. C0809 - If LIN08 is present, then all of LIN09 are required
4. C1011 - If LIN10 is present, then all of LIN11 are required
5. C1213 - If LIN12 is present, then all of LIN13 are required
6. C1415 - If LIN14 is present, then all of LIN15 are required
7. C1617 - If LIN16 is present, then all of LIN17 are required
8. C1819 - If LIN18 is present, then all of LIN19 are required
9. C2021 - If LIN20 is present, then all of LIN21 are required
10. C2223 - If LIN22 is present, then all of LIN23 are required
11. C2425 - If LIN24 is present, then all of LIN25 are required
12. C2627 - If LIN26 is present, then all of LIN27 are required
13. C2829 - If LIN28 is present, then all of LIN29 are required
14. C3031 - If LIN30 is present, then all of LIN31 are required

Comments:

1. See the Data Dictionary for a complete list of ID's.
2. LIN01 is the line item identification
3. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

SN1 Item Detail (Shipment)

Pos: 30	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

To specify line item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SN102	382	**Number of Units Shipped**	M	R	1/10
SN103	355	**Unit of Measurement Code**	M	ID	2/2
SN105	330	**Quantity Ordered**	O	R	1/9
SN106	355	**Unit of Measurement Code**	X	ID	2/2

Syntax:

1. C0506 - If SN105 is present, then all of SN106 are required

Comments:

1. SN101 is the ship notice line item identification.
2. SN103 defines the unit of measurement for both SN102 and SN104.

PRF Purchase Order Reference

Pos: 50 **Max: 1**
Detail - Optional
Loop: HL **Elements: 2**

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
PRF04	323	**Purchase Order Date**	O	DT	6/6

PID Product/Item Description

Pos: 70	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PID01	349	**Item Description Type**	M	ID	1/1
PID05	352	**Description**	X	AN	1/80

Syntax:

1. C0403 - If PID04 is present, then all of PID03 are required
2. R0405 - At least one of PID04,PID05 is required

Comments:

1. If PID01 = "F", then PID05 is used. If PID01 = "S", then PID04 is used. If PID01 = "X", then both PID04 and PID05 are used.
2. Use PID03 to indicate the organization that publishes the code list being referred to.
3. PID04 should be used for industry-specific product description codes.
4. Use PID06 when necessary to refer to the product surface or layer being described in the segment.

TD1 Carrier Details (Quantity and Weight)

Pos: 110 **Max: 20**
Detail - Optional
Loop: HL **Elements: 2**

To specify the transportation details relative to commodity, weight and quantity.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD101	103	**Packaging Code**	O	AN	5/5
TD102	80	**Lading Quantity**	X	N0	1/7

Syntax:

1. C0102 - If TD101 is present, then all of TD102 are required
2. C0304 - If TD103 is present, then all of TD104 are required
3. C0607 - If TD106 is present, then all of TD107 are required

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120 **Max: 12**
Detail - Optional
Loop: HL **Elements: 4**

To specify the carrier, sequence of routing and to provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD501	133	**Routing Sequence Code**	O	ID	1/2
TD502	66	**Identification Code Qualifier**	X	ID	1/2
TD503	67	**Identification Code**	X	AN	2/17
TD504	91	**Transportation Method/Type Code**	X	ID	1/2

Syntax:

1. R020405 - At least one of TD502,TD504,TD505 is required
2. C0203 - If TD502 is present, then all of TD503 are required
3. C0708 - If TD507 is present, then all of TD508 are required
4. C1011 - If TD510 is present, then all of TD511 are required

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; use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

TD3 Carrier Details (Equipment)

Pos: 130	Max: 12
Detail - Optional	
Loop: HL	Elements: 7

To specify transportation details relating to the equipment used by the carrier.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD301	40	**Equipment Description Code**	M	ID	2/2
TD302	206	**Equipment Initial**	O	AN	1/4
TD303	207	**Equipment Number**	X	AN	1/10
TD304	187	**Weight Qualifier**	O	ID	1/2
TD305	81	**Weight**	X	R	1/8
TD306	355	**Unit of Measurement Code**	X	ID	2/2
TD307	102	**Ownership Code**	O	ID	1/1

Syntax:

1. C0203 - If TD302 is present, then all of TD303 are required
2. C040506 - If TD304 is present, then all of TD305,TD306 are required

REF Reference Numbers

Pos: 150	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

To specify identifying numbers.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
REF01	128	**Reference Number Qualifier**	M	ID	2/2
REF02	127	**Reference Number**	X	AN	1/30

Syntax:

1. R0203 - At least one of REF02,REF03 is required

MAN Marks and Numbers

Pos: 190	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

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
MAN02	87	**Marks and Numbers**	M	AN	1/45

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

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
DTM02	373	**Date**	X	DT	6/6

Syntax:

1. R0203 - At least one of DTM02,DTM03 is required

FOB F.O.B. Related Instructions

Pos: 210 **Max: 1**
Detail - Optional
Loop: HL **Elements: 9**

To specify transportation instructions relating to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
FOB01	146	**Shipment Method of Payment**	M	ID	2/2
FOB02	309	**Location Qualifier**	X	ID	1/2
FOB03	352	**Description**	O	AN	1/80
FOB04	334	**Transportation Terms Qualifier Code**	O	ID	2/2
FOB05	335	**Transportation Terms Code**	X	ID	3/3
FOB06	309	**Location Qualifier**	X	ID	1/2
FOB07	352	**Description**	O	AN	1/80
FOB08	54	**Risk of Loss Qualifier**	O	ID	2/2
FOB09	352	**Description**	X	AN	1/80

Syntax:

1. C0302 - If FOB03 is present, then all of FOB02 are required
2. C0405 - If FOB04 is present, then all of FOB05 are required
3. C0706 - If FOB07 is present, then all of FOB06 are required
4. C0809 - If FOB08 is present, then all of FOB09 are required

Comments:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying 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.

Loop N1

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

To identify a party by type of organization, name and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat
220	N1	Name	O	1	
240	N3	Address Information	O	2	
250	N4	Geographic Location	O	1	

N1 Name

Pos: 220 **Max: 1**
Detail - Optional
Loop: N1 **Elements: 4**

To identify a party by type of organization, name and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N101	98	**Entity Identifier Code**	M	ID	2/2
N102	93	**Name**	X	AN	1/35
N103	66	**Identification Code Qualifier**	X	ID	1/2
N104	67	**Identification Code**	X	AN	2/17

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

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.

N3 Address Information

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N301	166	**Address Information**	M	AN	1/35
N302	166	**Address Information**	O	AN	1/35

N4 Geographic Location

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N401	19	**City Name**	X	AN	2/19
N402	156	**State or Province Code**	O	ID	2/2
N403	116	**Postal Code**	O	ID	4/9

Syntax:

1. R0105 - At least one of N401,N405 is required
2. P0506 - If either N405,N406 is present, then all are required

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 USA or Canada.

CTT Transaction Totals

Pos: 10 **Max: 1**
Summary - Mandatory
Loop: N/A **Elements: 7**

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
CTT02	347	**Hash Total**	O	R	1/10
CTT03	81	**Weight**	O	R	1/8
CTT04	355	**Unit of Measurement Code**	X	ID	2/2
CTT05	183	**Volume**	O	R	1/8
CTT06	355	**Unit of Measurement Code**	X	ID	2/2
CTT07	352	**Description**	O	AN	1/80

Syntax:

1. C0304 - If CTT03 is present, then all of CTT04 are required
2. C0506 - If CTT05 is present, then all of CTT06 are required

Comments:

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

SE Transaction Set Trailer

Pos: 20	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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	1/6
SE02	329	**Transaction Set Control Number**	M	AN	4/9

Comments:

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