856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

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.

Table 1: Heading

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	ST	Transaction Set Header	M	1		
Must Use	BSN	Beginning Segment for Ship Notice	M	1		
Must Use	DTM	Date/Time Reference	M	10		

Table 2: Detail

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			HL - Shipment Level			200000	
Must Use	010	HL	Hierarchical Level	M	1		
	080	MEA	Measurements	M	40		
	110	TD1	Carrier Details (Quantity and Weight)	M	20		
	120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		
	130	TD3	Carrier Details (Equipment)	M	12		
	150	REF	Reference Identification	M	200		
			LOOP ID - N1			200	
	220	N1	Name	M	1		
			HL - Order Level			200000	
	230	HL	Hierarchical Level	M	1		
	235	LIN	Item Identification	M	1		
	237	SN1	Sub line Item Detail	M	1		
			LOOP ID – CLD			200	
	170	CLD	Load Detail	M	1		
	180	REF	Reference Identification	M	200		

Table 3: Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	CTT	Transaction Totals	M	1		
Must Use	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.
2. 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**
Loop:
Level: **Heading**
Usage: **Mandatory**
Max Use: **1**
Syntax Notes: **To indicate the start of a transaction set and to assign a control number**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**ST01**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	**M**	**ID 3/3**
>>	**ST02**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M**	**AN 4/9**

Segment: **BSN** **Beginning Segment for Ship Notice**
Loop:
Level: **Heading**
Usage: **Mandatory**
Max Use: **1**
Purpose: **To transmit identifying numbers, dates, and other basic data relating to the transaction set**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**BSN01**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original	**M**	**ID 2/2**
>>	**BSN02**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment	**M**	**AN 2/30**
>>	**BSN03**	**ASN Creation Date** Date expressed as CCYYMMDD	**M**	**DT 8/8**
>>	**BSN04**	**ASN Creation Time** Time expressed in 24-hour clock time as follows: HHMM (Time range: 0000 through 2359)	**M**	**TM 4/8**

Segment: **DTM** **Date/Time Reference**
Loop:
Level: **Heading**
Usage: **Mandatory**
Max Use: **10**
Purpose:
Syntax Notes: **To specify pertinent dates and times: Date shipped/customs pass date**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	DTM01	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 011 Shipped	M	ID 3/3
>>	DTM02	**Shipment Date** Date expressed as CCYYMMDD	M	DT 8/8
>>	DTM03	**Shipment Time** Time expressed in 24-hour clock time as follows: HHMM (Time range: 0000 through 2359)	M	TM 4/8

Segment: **HL** **Hierarchical Level – Shipment Level**
Loop:
Level: **Detail**
Usage: **Mandatory**
Max Use: **1**
Purpose:
Syntax Notes: **To identify dependencies among and the content of hierarchically related groups of segments**
Comments: **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.

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.

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

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.

Notes:

Shipment: Data that applies to the whole shipment. (example: bill of lading number, carrier details etc.)

Order: Data related to the customer's order. (example: part number, number of units shipped, etc.)

Item: Data related to the product being shipped. (example: release number)

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**HL01**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
>>	**HL02**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**M**	**AN 1/12**
>>	**HL03**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure S Shipment	**M**	**ID 1/2**

Segment: **MEA** **Measurements**
Loop:
Level: **Detail**
Usage: **Optional**
Max Use: **40**
Purpose: **To specify physical measurements weights or counts**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**MEA01**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies PD – Physical Dimension Qualifier	**M**	**ID 2/2**
>>	**MEA02**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies G – Gross Weight Qualifier	**M**	**ID 1/3**
>>	**MEA03**	**Measurement Value** The value of the measurement	**M**	**R 1/20**
>>	**MEA04**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB - Pounds	**M**	**ID 2/2**

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

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	TD101	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Refer to 4010 Data Element Dictionary for code values.	**M**	**AN 3/5**
>>	TD102	**Lading Quantity** Number of units (pieces) of the lading commodity	**M**	**N0 1/7**

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

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**TD501**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement B – Origin/Delivery Carrier	**M**	**ID 1/2**
>>	**TD502**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Standard Carrier Alpha code (SCAC)	**M**	**ID 1/2**
>>	**TD503**	**Identification Code** Code identifying a party or other code	**M**	**AN 2/80**
>>	**TD504**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment Refer to 4010 Data Element Dictionary for code values.	**M**	**ID 1/2**

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

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**TD301**	**Equipment Description Code** Code identifying type of equipment used for shipment TL – Trailer	**M**	**ID 2/2**
>>	**TD303**	**Equipment Number** Trailer Number	**M**	**AN 1/10**

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

Data Element Summary

	Ref. Des.	Name	Attributes
>>	**REF01**	**Reference Number Qualifier** Code qualifying the Reference Identification BM/PK Bill of Lading Number/ Packing list number	**M ID 2/3**
>>	**REF02**	**Reference Number** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M AN 1/30**

Segment: **N1** **Name**
Loop: **N1**
Level: **Detail**
Usage: **Mandatory**
Max Use: **1**
Purpose: **To identify a party by type of organization, name, and code**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**N101**	**Entity Identifier Code Qualifier** Code identifying an organizational entity, a physical location, property or an individual SF Ship From ;SEWS assigned vendor/supplier code	**M**	**ID 2/3**
	N102	**Name** Free-form name	**X**	**AN 1/60**
>>	**N103**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92	**M**	**ID 1/2**
>>	**N104**	**Identification Code** Code identifying a party or other code as specified in N101	**M**	**AN 2/80**

Segment: **N1** **Name**
Loop: **N1**
Level: **Detail**
Usage: **Mandatory**
Max Use: **1**
Purpose: **To identify a party by type of organization, name, and code**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**N101**	**Entity Identifier Code Qualifier** Code identifying an organizational entity, a physical location, property or an individual ST Ship-to	**M**	**ID 2/3**
	N102	**Name** Free-form name	**X**	**AN 1/60**
>>	**N103**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92	**M**	**ID 1/2**
>>	**N104**	**Identification Code** Code identifying a party or other code as specified in N101	**M**	**AN 2/80**

Segment: **HL** **Hierarchical Level – Shipment Level**
Loop: **HL**
Level: **Detail**
Usage: **Mandatory**
Max Use: **1**
Purpose:
Comments: **To identify dependencies among and the content of hierarchically related groups of segments 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.**

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.

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

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.

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**HL01**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
>>	**HL02**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**M**	**AN 1/12**
>>	**HL03**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure I Item	**M**	**ID 1/2**

Segment: **LIN** **Item Identification**
Loop: **HL**
Level: **Detail**
Usage: **Mandatory**
Max Use: **1**
Purpose: **To specify basic item identification data**
Syntax Notes: **If either LIN02 or LIN03 is present, then the other is required**
If either LIN04 or LIN05 is present, then the other is required
If either LIN06 or LIN07 is present, then the other is required
If either LIN08 or LIN09 is present, then the other is required
If either LIN10 or LIN11 is present, then the other is required
Comments: **See the Data Dictionary for a complete list of IDs**
LIN02 through LIN11 provide for different product/service IDs for each item

Notes:

Shipment: Data that applies to the whole shipment. (example: bill of lading number, carrier details etc.)

Order: Data related to the customer's order. (example: part number, number of units shipped, etc.)

Item: Data related to the product being shipped. (example: release number)

Data Element Summary

	Ref. Des.	Name	Attributes
>>	**LIN02**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID BP Buyer's Part Number	**M ID 2/2**
>>	**LIN03**	**Product/Service ID** Identification number for a product or service On the label barcode, prefix should be P for wire product, C for color	**M AN 1/35**
>>	**LIN04**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID PO Purchase Order Number	**M ID 2/2**
>>	**LIN05**	**Product/Service ID** Identifying number for a product or service	**M AN 1/10**
>>	**LIN06**	**Reference Number Qualifier** Code qualifying the Reference Identification IV Seller's Invoice Number	**O ID 2/3**
>>	**LIN07**	**Reference Number** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**O AN 1/10**

Segment: **SN1** **Sub Line Item Detail**
Loop: **HL**
Level: **Detail**
Usage: **Mandatory**
Max Use: **1**
Purpose: **To specify basic item identification data**

Data Element Summary

	Des.	Name	Attributes
>>	**SN101**	**Reference Qualifier** PC Total quantity qualifier corresponding to the product/service ID in the LIN 03	**M ID 2/2**
>>	**SN102**	**Reference** Total shipped quantity corresponding to the product/service ID in the LIN 03	**M R 1/10**
>>	**SN103**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 4010 Data Element Dictionary for code values.	**M ID 2/2**
>>	**SN105**	**Reference Qualifier** PR Unit Price corresponding to data reference in LIN03	**O ID 2/2**
>>	**SN106**	**Reference** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**O M 1/10 D4**

Segment: **CLD** **Load Detail**
Loop: **HL**
Level: **Detail**
Usage: **Mandatory**
Max Use: **9999**
Purpose: **To identify the details of the load, i.e. pieces per serial**

Data Element Summary

	Ref. Des.	Name	Attributes	
>>	**CLD01**	**Total number of serials** Total number of serials shipped corresponding to the subsequent REF02 In the label barcode, prefix for serial/shipped quantity is Q	**M**	**R 1/10**
>>	**CLD02**	**Number of pieces** Total number of pieces shipped corresponding to the subsequent REF 02	**M**	**R 1/10**

Segment: **REF** **Reference Identification**
Loop: **HL/CLD**
Level: **Detail**
Usage: **Mandatory**
Max Use: **9999**
Purpose: **To specify identifying serial information.**
Serial number should be unique, should not repeat in any shipment.
Serial number should start with an 'S' in ASN and barcode.
Serial number value in ASN data should match the barcode value on the label.
Supplier code should be included in the serial number.
Format: S<supplier code><unique counter>
Example:SABC1109756699

Data Element Summary

	Ref. Des.	Name	Attributes
>>	**REF01**	**Reference Number Qualifier** Code qualifying the Reference Identification LS Bar-Coded Box Serial Number	**M ID 2/3**
>>	**REF02**	**Reference Number** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier: Bar-Coded Box Serial Number Serial number should be unique, should not repeat in any shipment. Serial number should start with an 'S' in ASN and barcode. Serial number value in ASN data should match the barcode value on the label. Supplier code should be included in the serial number. Format: S<supplier code><unique counter> Example:SABC1109756699	**M AN 1/30**

Segment: **CTT** **Transaction Totals**
Loop:
Level: **Detail**
Usage: **Mandatory**
Max Use: **9999**
Purpose: **To specify identifying serial information**
Comments:

Data Element Summary

Data Element Summary

	Ref. Des.	Name	Attributes
>>	**CTT01**	**Number of Line Items** Total number of line items in the transaction set	**M N0 1/6**
	CTT02	**Hash Total** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. --------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	**O R 1/10**

Sample 856:

ISA*00* *00* *01*999999999 *01*175638741 *180725*1551*U*00401*000000001*0*P*>
GS*SH*999999999*175638741*20180725*1551*0001*X*004010
ST*856*0001
BSN*00*TEST01*20180725*1149
DTM*011*20180725*1149
HL*1**S
MEA*PD*G*12*LB
MEA*PD*N*10*LB
TD1*CTN90*1
TD5*B*2*PNII*LT
TD3*TL**99999
REF*PK*9999999
REF*BM*9999999
N1*SF**92*XXXX
N1*ST**92*942257585
HL*2*1*I
LIN**BP*TESTPART*PO*TESTPO
SN1**150*EA
CLD*1*100*CTN90
REF*LS*SXXXX99999999
CLD*1*25*CTN90
REF*LS*SXXXX99999998
REF*LS*SXXXX99999997
CTT*2
SE*23*000000001
GE*1*0001
IEA*1*0001