

856 Ship Notice/Manifest

Functional Group ID=**SH**

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:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
	040	DTM	Date/Time Reference	O	10		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
						200000	
M	010	HL	Hierarchical Level	M	1		c1
	020	LIN	Item Identification	O	1		
	050	PRF	Purchase Order Reference	O	1		
	070	PID	Product/Item Description	O	200		
	080	MEA	Measurements	O	40		
	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 Identification	O	>1		
	210	FOB	F.O.B. Related Instructions	O	1		
						200	
	220	N1	Name	O	1		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	010	CTT	Transaction Totals	O	1		n1
M	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) is 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M ID 3/3
M	ST02	329	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
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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
M	BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
M	BSN03	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	BSN04	337	Time 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)	M TM 4/8

Segment: **DTM** Date/Time Reference
Position: 040
Loop:
Level: Heading
Usage: Optional
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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD Test date comments	X DT 8/8
	DTM03	337	Time 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)	X TM 4/8

Segment: **HL Hierarchical Level**
Position: 010
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

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.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	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	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		I Item	
		O Order	
		S Shipment	
	HL04	736 Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: **LIN** Item Identification

Position: 020

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.
- 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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	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)	
		SN Serial Number	
		VO Vendor's Order Number	
M	LIN03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	
	LIN04	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		HN Heat Number	
		VN Vendor's (Seller's) Item Number	
	LIN05	234 Product/Service ID	X AN 1/48
		Identifying number for a product or service	

Segment: **PRF** Purchase Order Reference
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Optional
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:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
	PRF04	373	Date Date expressed as CCYYMMDD	O DT 8/8

Segment: **PID** Product/Item Description

Position: 070

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 200

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

Syntax Notes:

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

Semantic Notes:

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		S Structured (From Industry Code List)	
	PID02	750 Product/Process Characteristic Code	O ID 2/3
		Code identifying the general class of a product or process characteristic	
		MAC Material Classification	
		Class of material, e.g. prime, secondary, etc.	
	PID03	559 Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	
		ST American Iron & Steel Institute	
	PID04	751 Product Description Code	X AN 1/12
		A code from an industry code list which provides specific data about a product characteristic	
	PID07	822 Source Subqualifier	O AN 1/15
		A reference that indicates the table or text maintained by the Source Qualifier	

Segment: **MEA** Measurements
Position: 080
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		CH Chemistry	
		PD Physical Dimensions	
		WT Weights	
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		LN Length	
		TH Thickness	
		WD Width	
		WT Weight	
		ZAL Aluminum	
		ZB Boron	
		ZC Carbon	
		ZCB Columbium	
		ZCR Chromium	
		ZCU Copper	
		ZMN Manganese	
		ZMO Molybdenum	
		ZN Nitrogen	
		ZNB Niobium	
		ZNI Nickel	
		ZP Phosphorous	
		ZS Sulfur	
		ZSI Silicon	
		ZSN Tin	
		ZTI Titanium	
		ZV Vanadium	
MEA03	739	Measurement Value	X R 1/20
		The value of the measurement	
MEA04	C001	Composite Unit of Measure	X

M	C00101	355	<p>To identify a composite unit of measure (See Figures Appendix for examples of use)</p> <p>Unit or Basis for Measurement Code</p> <p>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</p> <table border="0"> <tr> <td style="padding-right: 20px;">01</td> <td>Actual Pounds</td> </tr> <tr> <td>24</td> <td>Theoretical Pounds</td> </tr> <tr> <td>ED</td> <td>Inches, Decimal--Nominal</td> </tr> <tr> <td>LF</td> <td>Linear Foot</td> </tr> <tr> <td>P1</td> <td>Percent</td> </tr> </table>	01	Actual Pounds	24	Theoretical Pounds	ED	Inches, Decimal--Nominal	LF	Linear Foot	P1	Percent	M ID 2/2
01	Actual Pounds													
24	Theoretical Pounds													
ED	Inches, Decimal--Nominal													
LF	Linear Foot													
P1	Percent													

Segment: **TD1** Carrier Details (Quantity and Weight)
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD101	103	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 COL Coil 52 Iron or Steel	O AN 3/5
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	X N0 1/7
TD106	187	Weight Qualifier Code defining the type of weight G Gross Weight	O ID 1/2
TD107	81	Weight Numeric value of weight	X R 1/10
TD108	355	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 Pound	X ID 2/2

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)

Position: 120

Loop: HL Mandatory

Level: Detail

Usage: Optional

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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD501	133	Routing Sequence Code	O 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	X 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	X AN 2/80
		Code identifying a party or other code	
TD504	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		M Motor (Common Carrier)	
		R Rail	
TD505	387	Routing	X AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
TD506	368	Shipment/Order Status Code	X ID 2/2
		Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction	
		CL Complete	
		Material on the load is for one producer	

Segment: **TD3** Carrier Details (Equipment)
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:

- 1 Only one of TD301 or TD310 may be present.
- 2 If TD302 is present, then TD303 is required.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment TL Trailer (not otherwise specified)	X ID 2/2
TD303	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X AN 1/10

Segment: **REF** Reference Identification
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional
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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MA Ship Notice/Manifest Number PM Part Number PO Purchase Order Number QP Substitute Part Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **FOB** F.O.B. Related Instructions
Position: 210
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:

- 1 If FOB03 is present, then FOB02 is required.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

Semantic Notes:

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

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	FOB01	146 Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		CC Collect	
		PP Prepaid (by Seller)	

Segment: **N1** Name
Position: 220
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:
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.

Data Element Summary

Ref.	Data Element	Name	Attributes	
			M	ID
M	N101	98 Entity Identifier Code		
		Code identifying an organizational entity, a physical location, property or an individual		
		MF Manufacturer of Goods		
		SF Ship From		
		SO Sold To If Different From Bill To		
		ST Ship To		
	N102	93 Name	X	AN 1/60
		Free-form name		
	N103	66 Identification Code Qualifier	X	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		1 D-U-N-S Number, Dun & Bradstreet		
	N104	67 Identification Code	X	AN 2/80
		Code identifying a party or other code		

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		354	Number of Line Items Total number of line items in the transaction set	M N0 1/6

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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	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