

# 856 Ship Notice/Manifest

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**

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
191	010	ST	Transaction Set Header	M	1	
192	020	BSN	Beginning Segment for Ship Notice	M	1	
N/U	030	NTE	Note/Special Instruction	F	100	
193	040	DTM	Date/Time Reference	O	10	

**Table 2**

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
						<b>LOOP ID - HL</b>
194	010	HL	Hierarchical Level	M	1	200000
196	020	LIN	Item Identification	O	1	
N/U	030	SN1	Item Detail (Shipment)	O	1	
N/U	040	SLN	Subline Item Detail	O	100	
199	050	PRF	Purchase Order Reference	O	1	
N/U	060	PO4	Item Physical Details	O	1	
200	070	PID	Product/Item Description	O	200	
201	080	MEA	Measurements	O	40	
N/U	090	PWK	Paperwork	O	25	
204	100	PKG	Marking, Packaging, Loading	O	25	
N/U	110	TD1	Carrier Details (Quantity and Weight)	O	20	
N/U	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
206	130	TD3	Carrier Details (Equipment)	O	12	
N/U	140	TD4	Carrier Details (Special Handling/Hazardous Materials)	O	5	
208	150	REF	Reference Numbers	O	200	
N/U	160	PER	Administrative Communications Contact	O	1	
						<b>LOOP ID - HL/CLD</b>
N/U	170	CLD	Load Detail	O	1	200
N/U	180	REF	Reference Numbers	O	200	
N/U	190	MAN	Marks and Numbers	O	10	
209	200	DTM	Date/Time Reference	O	10	
N/U	210	FOB	F.O.B. Related Instructions	O	1	
						<b>LOOP ID - HL/N1</b>
210	220	N1	Name	O	1	200
212	230	N2	Additional Name Information	O	2	

213	240	N3	Address Information	O	2
214	250	N4	Geographic Location	O	1
N/U	260	REF	Reference Numbers	O	12
N/U	270	PER	Administrative Communications Contact	O	3
N/U	280	FOB	F.O.B. Related Instructions	O	1
N/U	290	SDQ	Destination Quantity	O	50
N/U	300	ETD	Excess Transportation Detail	O	1
N/U	310	CUR	Currency	O	1
N/U	320	ITA	Allowance, Charge or Service	O	10

**Table 3**

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
215	010	CTT	Transaction Totals	M	1	
216	020	SE	Transaction Set Trailer	M	1	

SEGMENT: **ST** Transaction Set Header  
 LEVEL: Header  
 LOOP: \_\_\_\_\_  
 USAGE: Mandatory  
 MAX USE: 1  
 PURPOSE: To indicate the start of a transaction set and to assign a control number  
 COMMENTS: **A** 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).

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set.	M ID 3/3
<b>856 X12.10 Ship Notice/Manifest</b>			
ST02	329	<b>Transaction Set Control Number</b> Identifying control number assigned by the originator for a transaction set.	M AN 4/9

SEGMENT: **BSN** Beginning Segment for Ship Notice  
 LEVEL: Header  
 LOOP: \_\_\_\_\_  
 USAGE: Mandatory  
 MAX USE: 1  
 PURPOSE: To transmit identifying numbers, dates and other basic data relating to the transaction set  
 COMMENTS: **A** BSN03 is the date the shipment transaction set is created.  
**B** BSN04 is the time the shipment transaction set is created.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
<b>BSN01</b>	<b>353</b>	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set.	<b>M ID 2/2</b>
<b>Business Requirement: Transaction Type (#18)</b>			
00 Original			
01 Cancellation			
05 Replace			
18 Reissue			
<b>BSN02</b>	<b>396</b>	<b>Shipment Identification</b> A unique control number assigned by the original shipper to identify a specific shipment.	<b>M AN 2/30</b>
<b>Business Requirement: Delivery Ticket Number (#5)</b>			
<b>BSN03</b>	<b>373</b>	<b>Date</b> Date (YYMMDD).	<b>M DT 6/6</b>
<b>Required by AVNET</b>			
<b>Business Requirement: Delivery Ticket Date (#66)</b>			
<b>BSN04</b>	<b>337</b>	<b>Time</b> Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	<b>M TM 4/4</b>

SEGMENT: **DTM** Date/Time Reference

LEVEL: Header

LOOP: \_\_\_\_\_

USAGE: Optional

MAX USE: 10

PURPOSE: To specify pertinent dates and times

SYNTAX: **1** At least one of DTM02 or DTM03 must be present.

NOTES: **This DTM segment can be used two times. Use once if Delivery Start Date (#65) is different from Delivery Ticket Date. Use a second time if Delivery End (#64) is different from Delivery Ticket Date.**

### Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time.	M ID 3/3
DTM02	373	<b>Date</b> Date (YYMMDD).	C DT 6/6
DTM03	337	<b>Time</b> Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	C TM 4/4
DTM04	623	<b>Time Code</b> 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.	O ID 2/2

SEGMENT: **HL** Hierarchical Level  
 LEVEL: Detail  
 LOOP: HL REPEAT: 200000  
 USAGE: Mandatory  
 MAX USE: 1  
 PURPOSE: To identify dependencies among and the content of hierarchically related groups of data segments.  
 COMMENTS: **A** 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.  
**B** 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.  
**C** HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.  
**D** 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.  
**E** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.  
**F** The HL segment defines a top-down/left-right ordered structure.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	<b>M AN 1/12</b>
<b>Use "1", only one HL loop should be used in a Delivery Ticket.</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.	<b>O AN 1/12</b>
<b>Not Used by AVNET</b>			
HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure.	<b>M ID 1/2</b>
<b>S Shipment</b>			

HL04 736 Hierarchical Child Code O ID 111  
Code indicating whether if there are hierarchical child data segments subordinate to  
the level being described.  
  
Not Used by AVNET

SEGMENT: **LIN** Item Identification  
 LEVEL: Detail  
 LOOP: HL  
 USAGE: Optional  
 MAX USE: 1  
 PURPOSE: To specify basic item identification data.  
 SYNTAX: 1 If LIN04 is present, then LIN05 is required.  
 2 If LIN06 is present, then LIN07 is required.  
 3 If LIN08 is present, then LIN09 is required.  
 4 If LIN10 is present, then LIN11 is required.  
 5 If LIN12 is present, then LIN13 is required.  
 6 If LIN14 is present, then LIN15 is required.  
 7 If LIN16 is present, then LIN17 is required.  
 8 If LIN18 is present, then LIN19 is required.  
 9 If LIN20 is present, then LIN21 is required.  
 10 If LIN22 is present, then LIN23 is required.  
 11 If LIN24 is present, then LIN25 is required.  
 12 If LIN26 is present, then LIN27 is required.  
 13 If LIN28 is present, then LIN29 is required.  
 14 If LIN30 is present, then LIN31 is required.

COMMENTS: **A** See the Data Dictionary for a complete list of ID's.  
**B** LIN01 is the line item identification  
**C** 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.

NOTES: **Required by AVNET**

**At least one LIN required to transmit either Product Description (#56) or Service Description (#58).**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
LIN01	350	Assigned Identification	O AN 1/6
Alphanumeric characters assigned for differentiation within a transaction set.			

**Use AVNET assigned:**  
 BT Book Transfer  
 DF Defuel  
 RF Refuel  
 SV Service  
 UP Uplift

<b>LIN02</b>	<b>235</b>	<p><b>Product/Service ID Qualifier</b> <span style="float: right;"><b>M ID 2/2</b></span> Code identifying the type/source of the descriptive number used in Product/Service ID (234).</p> <p><b>Either a description or preferably a code is used for product or service.</b></p> <p><b>AP PIDX Refined Product Code</b> <b>(ASC X12 Data Maintenance request to be submitted)</b></p> <p><b>CN Commodity Name</b></p> <p><b>SV Service Rendered</b></p>
<b>LIN03</b>	<b>234</b>	<p><b>Product/Service ID</b> <span style="float: right;"><b>M AN 1/30</b></span> Identifying number for a product or service.</p> <p><b>Required by AVNET</b></p> <p><b>Product/Service description or PIDX Product Code</b></p>
<b>LIN04</b>	<b>235</b>	<p><b>Product/Service ID Qualifier</b> <span style="float: right;"><b>O ID 2/2</b></span> Code identifying the type/source of the descriptive number used in Product/Service ID (234).</p> <p><b>Sometimes it is necessary to transmit information on the customs and tax status of a fuel delivery. This information (Business Requirements: #42, #44, #60) can be transmitted via the LIN segment. Use the LIN04-LIN05, LIN06-LIN07, and LIN08-LIN09 pairs.</b></p> <p><b>ZZ Mutually Defined</b></p>
<b>LIN05</b>	<b>234</b>	<p><b>Product/Service ID</b> <span style="float: right;"><b>C AN 1/30</b></span> Identifying number for a product or service.</p> <p><b>Business Requirement: Bonded Indicator (#42)</b> <b>1 Bonded</b> <b>2 Non-Bonded</b></p>
<b>LIN06</b>	<b>235</b>	<p><b>Product/Service ID Qualifier</b> <span style="float: right;"><b>O ID 2/2</b></span> Code identifying the type/source of the descriptive number used in Product/Service ID (234).</p> <p><b>ZZ Mutually Defined</b></p>
<b>LIN07</b>	<b>234</b>	<p><b>Product/Service ID</b> <span style="float: right;"><b>C AN 1/30</b></span> Identifying number for a product or service.</p> <p><b>Business Requirement: International Exempt (#44)</b> <b>3 International Exempt</b> <b>4 Non International Exempt</b></p>
<b>LIN08</b>	<b>235</b>	<p><b>Product/Service ID Qualifier</b> <span style="float: right;"><b>O ID 2/2</b></span> Code identifying the type/source of the descriptive number used in Product/Service ID (234).</p> <p><b>ZZ Mutually Defined</b></p>

LIN09 234 Product/Service ID C AN 1/30  
Identifying number for a product or service.

**Business Requirement: Tax Exemption Indicator (#60)**

5 Tax Exempt

6 Taxable

The ASC X12 003010 segment "LIN" has twenty two additional data elements not used by AVNET.

SEGMENT: **PRF** Purchase Order Reference  
 LEVEL: Detail  
 LOOP: HL  
 USAGE: Optional  
 MAX USE: 1  
 PURPOSE: To provide reference to a specific purchase order

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PRF01	324	<b>Purchase Order Number</b> Identifying number for Purchase Order assigned by the orderer/purchaser.	M AN 1/22
<b>Business Requirement: P.O. Number (#12)</b>			
PRF02	328	<b>Release Number</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.	O AN 1/30
<b>Business Requirement: Shipment Number (#16)</b>			
PRF03	327	<b>Change Order Sequence Number</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set.	O AN 1/8
<b>Not Used by AVNET</b>			
PRF04	323	<b>Purchase Order Date</b> Date assigned by the purchaser to Purchase Order.	O DT 6/6
<b>Business Requirement: P.O. Date (#76)</b>			
PRF05	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set.	O AN 1/6
<b>Not Used by AVNET</b>			
PRF06	367	<b>Contract Number</b> Contract number.	O AN 1/30
<b>Business Requirement: Contract Reference (#4)</b>			

SEGMENT: **PID** Product/Item Description  
 LEVEL: Detail  
 LOOP: HL  
 USAGE: Optional  
 MAX USE: 200  
 PURPOSE: To describe a product or process in coded or free-form format  
 SYNTAX: **1** If PID04 is present, then PID03 is required.  
**2** At least one of PID04 or PID05 must be present.  
 COMMENTS: **A** When PID01 is "F", PID04 is not used.  
**B** Use PID03 to indicate the organization that publishes the code list being referred to.  
**C** PID04 should be used for industry-specific product description codes.  
**D** Use PID06 when necessary to refer to the product surface or layer being described in the segment.  
 NOTES: **Use this PID segment for Business Requirement: Specification Number Information (#45).**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PID01	349	<b>Item Description Type</b> Code indicating the format of a description.	M ID 1/1
<b>S Structured (From Industry Code List)</b>			
PID02	750	<b>Product/Process Characteristic Code</b> Code specifying the product or process characteristic being described.	O ID 2/3
<b>Recommended by AVNET</b>			
<b>08 Product</b>			
PID03	559	<b>Association Qualifier Code</b> Code identifying the association assigning the code values.	C ID 2/2
<b>Recommended by AVNET</b>			
<b>AP PIDX</b>			
PID04	751	<b>Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic.	C ID 1/12
<b>Recommended by AVNET</b>			
PID05	352	<b>Description</b> A free-form description to clarify the related data elements and their content.	C AN 1/80
PID06	752	<b>Surface/Layer/Position Code</b> Code indicating the product surface, layer or position that is being described.	O ID 2/2
<b>Not Used by AVNET</b>			

SEGMENT: **MEA** Measurements

LEVEL: Detail

LOOP: HL

USAGE: Optional

MAX USE: 40

PURPOSE: To specify physical measurements, including dimensions, tolerances, weights and counts.

- SYNTAX:
- 1 Either MEA03 or MEA05 or MEA06 or MEA08 is required.
  - 2 If either MEA03, MEA05 or MEA06 is used, MEA04 is required.
  - 3 If MEA07 is used MEA03 is required.
  - 4 Either MEA08 or MEA03 may be used, but not both.

COMMENTS: **A** 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.

NOTES: **Required by AVNET**

**At least one MEA segment is required for product delivery.**

**The purpose of the delivery ticket is to provide information on the provision of fuel or other services to an aircraft, ground equipment, etc. Several different fuel delivery methods are possible and each requires slightly different information and ways of handling that information. A delivery of fuel will always include the gross measure of the quantity delivered, Measured Quantity Delivered. This quantity can be arrived at through different processes; a continuous reading meter will result in a meter start and meter ending reading, the difference being the quantity delivered. A meter which is reset to zero after each delivery will provide only one reading. Some meters contain a sequence counter and these readings are referenced. For any meter reading there will be a unit of measure reference. All tickets for a fuel delivery will contain a gross quantity delivered amount, they may optionally include adjustment factors and an adjustment net quantity amount. All these data elements are accommodated through the use of one or more MEA segments. If the ticket is for a delivery at least one MEA will be used. Occasionally a reference to a specific meter is required; this meter reference is contained in an REF segment.**

### Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MEA01	737	Measurement Reference ID Code Code specifying the application of physical measurement cited.	O ID 2/2

**Recommended by AVNET**

		<b>AA Meter reading-beginning actual/ending actual</b> Business Requirements: Meter Reading Beginning/Ending (#46-47)			
		<b>TR Test Results (Indicates that the data to follow are the results test measurements)</b> Business Requirement: Adjustment Parameter (#39)			
<b>MEA02</b>	<b>738</b>	<b>Measurement Qualifier</b> Code identifying the type of measurement.	<b>O</b>	<b>ID</b>	<b>1/3</b>
		<b>Required by AVNET</b>			
		<b>DN Density</b>			
		<b>G Gross Weight</b> Business Requirement: Measured Quantity Delivered (#45)			
		<b>N Actual Net Weight</b> Business Requirement: Quantity Net (#57)			
		<b>PY Percent of Water</b>			
		<b>TC Temperature</b>			
		<b>WT Weight</b>			
<b>MEA03</b>	<b>739</b>	<b>Measurement Value</b> The value of the measurement.	<b>C</b>	<b>R</b>	<b>1/10</b>
		<b>Recommended by AVNET</b>			
<b>MEA04</b>	<b>355</b>	<b>Unit of Measurement Code</b> Code identifying the basic unit of measurement.	<b>C</b>	<b>ID</b>	<b>2/2</b>
		<b>Business Requirement: Delivery Unit of Measure (#43)</b>			
<b>MEA05</b>	<b>740</b>	<b>Range Minimum</b> The value specifying the minimum of the measurement range.	<b>C</b>	<b>R</b>	<b>1/10</b>
		<b>Business Requirements: Meter Beginning Value (#46),, Meter Sequential Beginning (#48)</b>			
<b>MEA06</b>	<b>741</b>	<b>Range Maximum</b> The value specifying the maximum of the measurement range.	<b>C</b>	<b>R</b>	<b>1/10</b>
		<b>Business Requirements: Meter Ending Value (#47),, Meter Sequential Ending (#49)</b>			
		<b>If Product Delivered is in packages, e.g. lubricants; the number of packages is mapped into MEA03 and package measure is mapped into MEA04. MEA02 should contain code "NU" meaning Number per Unit.</b>			
<b>MEA07</b>	<b>935</b>	<b>Measurement Significance Code</b> Code used to benchmark, qualify or further define a measurement value.	<b>O</b>	<b>ID</b>	<b>2/2</b>
		<b>Not Used by AVNET</b>			

**MEA08 936 Measurement Attribute Code C ID 2/2**  
Code used to express an attribute response when a numeric measurement value cannot be determined.

**Not Used by AVNET**

**MEA09 752 Surface/Layer/Position Code O ID 2/2**  
Code indicating the product surface, layer or position that is being described.

**Not Used by AVNET**

SEGMENT: **PKG** Marking, Packaging, Loading  
 LEVEL: Detail  
 LOOP: HL  
 USAGE: Optional  
 MAX USE: 25  
 PURPOSE: To describe marking, packaging, loading and unloading requirements.  
 SYNTAX: **1** If PKG04 is present, then PKG03 is required.  
**2** At least one of PKG04 or PKG05 must be present.  
 COMMENTS: **A** Use MEA (Measurements) segment to define dimensions, tolerances weights, counts, physical restrictions, etc.  
**B** When PKG01 is "F", PKG04 is not used.  
**C** PKG01 relates only to PKG04 and PKG05.  
**D** Use PKG03 to indicate the organization that publishes the code list being referred to.  
**E** PKG04 should be used for industry-specific packaging description codes.  
**F** Special marking or tagging data can be given in PKG05 (Description).  
 NOTES: **If Product Delivered is packaged, use PKG and MEA in conjunction.**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PKG01	349	<b>Item Description Type</b> Code indicating the format of a description.	<b>M ID 1/1</b>
<b>Business Requirement: Type of Package (#61)</b>			
<b>S Structured (From Industry Code List)</b>			
PKG02	753	<b>Packaging Characteristic Code</b> Code specifying the marking, packaging, loading and related characteristics being described.	<b>O ID 1/5</b>
<b>Required by AVNET</b>			
<b>Business Requirement: Type of Package (#61)</b>			
PKG03	559	<b>Association Qualifier Code</b> Code identifying the association assigning the code values.	<b>C ID 2/2</b>
PKG04	754	<b>Packaging Description Code</b> A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.	<b>C ID 1/7</b>
<b>Recommended by AVNET</b>			
<b>See Appendix C, Packaged Code list.</b>			

PKG05 352 Description C AN 1/80  
A free-form description to clarify the related data elements and their content.  
  
Recommended by AVNET

**SEGMENT: TD3** Carrier Details (Equipment)  
**LEVEL:** Detail  
**LOOP:** HL  
**USAGE:** Optional  
**MAX USE:** 12  
**PURPOSE:** To specify transportation details relating to the equipment used by the carrier.  
**SYNTAX:** 1 If TD302 is present, then TD303 is required.  
 2 If TD304 is present, then TD305, and TD306 are required.

**NOTES: Required by AVNET**

**Receiving Equipment information for the equipment receiving the service or fueling is transmitted via the TD3 segment. The TD3 segment is also used to transmit information on the method of fueling.**

**Information on receiving equipment will always contain a code of "AI" for aircraft, or "GE" for ground equipment in the TD301 data element. The type of aircraft is specified in TD302 using the appropriate IATA aircraft code, the Receiving Equipment ID is specified in the TD303 data element. If it is necessary to transmit the company assigned ID number, this is done in an optional REF segment. Typically, for method of delivery, the only information about the delivering equipment that is transmitted is the type of equipment used, and this only when a special charge might apply for the use of that equipment. This information is specified in the TD301 through the use of the appropriate equipment type code. Should it be necessary to transmit an identification number, the TD303 should be used.**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
-----------	--------------	------	------------

TD301	40	<b>Equipment Description Code</b> Code identifying type of equipment used for shipment.	M ID 2/2
-------	----	--	----------

**When used for Business Requirement: Receiving Equipment (#125-127), the following two codes should be used. An ASC X12 Data Maintenance request will be submitted for them.**

**AI Aircraft**  
**GE Ground Equipment**

**When used for Business Requirement: Delivering Equipment (#57), the following codes can be used.**

**HH Hydrant Cart**  
**An ASC X12 Data Maintenance request will be submitted.**

**BR Barge**

**RR Rail Car**

			<b>TJ Trailer, Tank (Chemicals)</b>			
			<b>TN Tank Car</b>			
			<b>VE Vessel, Ocean</b>			
<b>TD302</b>	<b>206</b>	<b>Equipment Initial</b>		<b>O AN</b>	<b>1/4</b>	
		Prefix or alphabetic part of an equipment unit's identifying number.				
		<b>Recommended by AVNET</b>				
		<b>IATA Aircraft Type Code</b>				
<b>TD303</b>	<b>207</b>	<b>Equipment Number</b>		<b>C AN</b>	<b>1/10</b>	
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred).				
		<b>Recommended by AVNET</b>				
		<b>Government issued registration number</b>				
<b>TD304</b>	<b>187</b>	<b>Weight Qualifier</b>		<b>O ID</b>	<b>1/2</b>	
		Code defining the type of weight.				
		<b>Not Used by AVNET</b>				
<b>TD305</b>	<b>81</b>	<b>Weight</b>		<b>C R</b>	<b>1/8</b>	
		Numeric value of weight.				
		<b>Not Used by AVNET</b>				
<b>TD306</b>	<b>355</b>	<b>Unit of Measurement Code</b>		<b>C ID</b>	<b>2/2</b>	
		Code identifying the basic unit of measurement.				
		<b>Not Used by AVNET</b>				
<b>TD307</b>	<b>102</b>	<b>Ownership Code</b>		<b>O ID</b>	<b>1/1</b>	
		Code indicating the relationship of equipment to carrier.				
		<b>Not Used by AVNET</b>				

SEGMENT: **REF** Reference Numbers  
 LEVEL: Detail  
 LOOP: HL  
 USAGE: Optional  
 MAX USE: 200  
 PURPOSE: To specify identifying numbers.  
 SYNTAX: 1 Either REF02 or REF03 is required.

NOTES: **Reference segments are used to transmit information on various parameters related to the delivery of fuel or services. These include reference to the flight number to information on batch and nomination numbers for reference to bulk movements.**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
<b>Use AVNET - assigned pending data maintenance.</b> 66 Nomination Number 67 Fund Code 68 Major Force Program 69 Signal Code			
<b>AF Airlines Flight Identification Number</b> Business Requirement: Flight Number (#121)			
<b>BM Bill of Lading Number</b> Business Requirement: Bill of Lading Number (#1)			
<b>BT Batch Number</b> Business Requirement: Batch Number (#41)			
<b>C6 Carnet Number</b> Business Requirement: Nomination Number (#50)			
<b>P3 Previous customer reference number.</b> Business Requirement: Reference to a Previous Delivery Ticket (#13)			
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80
<b>Business Requirement: Flight Indicator (#120) (Used with Flight Number)</b> IF International Flight DF Domestic Flight TF Training Flight			

SEGMENT: **DTM** Date/Time Reference  
 LEVEL: Detail  
 LOOP: HL  
 USAGE: Optional  
 MAX USE: 10  
 PURPOSE: To specify pertinent dates and times  
 SYNTAX: **1** At least one of DTM02 or DTM03 must be present.  
 NOTES: **Used to reference other dates relating to the delivery ticket information.**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time.	<b>M ID 3/3</b>
		<b>002 Delivery Requested</b> Call Out Time	
		<b>011 Shipped</b> Business Requirement: Shipped Date (#78)	
		<b>036 Expiration</b> Business Requirement: Carnet Expiry Date (#63)	
		<b>095 Bill of Lading</b> Business Requirement: Bill of Lading Date (#62)	
		<b>153 Service Interruption</b> Business Requirement: Interruption Time (#67)	
		<b>155 Adjustment Period End</b> Business Requirement: Re-Start Time (#77)	
DTM02	373	<b>Date</b> Date (YYMMDD).	<b>C DT 6/6</b>
DTM03	337	<b>Time</b> Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	<b>C TM 4/4</b>
DTM04	623	<b>Time Code</b> 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.	<b>O ID 2/2</b>

SEGMENT: **N1** Name  
 LEVEL: Detail  
 LOOP: HL/N1 REPEAT: 200  
 USAGE: Optional  
 MAX USE: 1  
 PURPOSE: To identify a party by type of organization, name and code  
 SYNTAX: 1 At least one of N102 or N103 must be present.  
 2 If either N103 or N104 is present, then the other is required.  
 COMMENTS: **A** 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.

NOTES: **Required by AVNET**

**Information on the location and parties involved or related to the delivery of fuel or services is transmitted through a series of N1 segments or loops. At least three N1 segments will be transmitted; one to designate the acy location, and two N1s to designate the entities rendering and receiving the product/service.**

**Additional N1s can be included to satisfy various conditions and delivery scenarios. These are all mapped in the same fashion, the entity identifier code desi the parties relationship to the transaction is inserted in N101, and either a free form name is inserted in N102 or a code identifier and code value are in N103 and N104.**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity or a physical location.	M ID 2/2
N102	93	<b>Name</b> Free-form name.	C AN 1/35
N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2

**Recommended by AVNET**

**N104 67 Identification Code C ID 2/17**  
Code identifying a party.

**Recommended by AVNET**

Three uses for this N1 loop are required:

1) To designate activity location, use one of the following values for N101:

- “RC” - Receiving Location, “SF” - Ship From
- “40” - Receiving Sub-Location (being requested)
- “41” - From Sub-Location (being requested).

Use “4” - International Air Transport Association (IATA) for N103.

2) To designate Business Requirement: Product/Service Deliverer (#34):

- Use “DS” - Distributor for N101
- insert a free-form name into N102
- or use “1” - DUNS Number or “9” DUNS +4 in N103 and a value in N104.

3) To designate Business Requirement: Product/Service Receiver (#35):

- Use “EN” - End User in N101 and N102, N103 and N104 as above.

Six conditional uses for this N1 loop on parties related to the delivery ticket:

1) Business Requirement: Supplier (#38), if the supplier is different from the deliverer, use “SU” in N101 and use either N102 or the N103-N104 pair to specify the supplier.

2) Business Requirement: Customer (#21), if the customer is different from the receiver, use “BY” in N101 and use either N102 or the N103-N104 pair to specify the customer.

3) Business Requirement: Aircraft Owner (#20), for rebilling purposes, use “OW” in N101 and use either N102 or the 104 pair to specify the aircraft owner.

4) Business Requirement: Supplemental Address Code (#37), if the receiving party is not to be billed, use “BG” in N101 and either N102 or the N103-N104 pair to specify a supplemental address.

5) Business Requirement: Delivered By (#22), if the name of the delivering person is needed, use “LP” in N101 and either N102 or the N103-N104 pair to specify the delivering party.

6) Business Requirement: Received By (#36), if the name of the receiving person is needed, use “PU” in N101 and either N102 or the N103-N104 pair to specify the receiving party.

SEGMENT: **N2** Additional Name Information  
 LEVEL: Detail  
 LOOP: HL/N1  
 USAGE: Optional  
 MAX USE: 2  
 PURPOSE: To specify additional names or those longer than 35 characters in length

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N201	93	Name Free-form name.	M AN 1/35
N202	93	Name Free-form name.	O AN 1/35

SEGMENT: **N3** Address Information  
 LEVEL: Detail  
 LOOP: HL/N1  
 USAGE: Optional  
 MAX USE: 2  
 PURPOSE: To specify the location of the named party

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N301	166	Address Information Address information	M AN 1/35
N302	166	Address Information Address information	O AN 1/35

SEGMENT: **N4** Geographic Location  
 LEVEL: Detail  
 LOOP: HL/N1  
 USAGE: Optional  
 MAX USE: 1  
 PURPOSE: To specify the geographic place of the named party  
 SYNTAX: 1 At least one of N401 or N405 must be present.  
 2 If N401 is present, then N402 is required.  
 3 If either N405 or N406 is present, then the other is required.  
 COMMENTS: **A** A combination of either N401 through N404 (or N405 and N406)  
 may be adequate to specify a location.  
**B** N402 is required only if city name (N401) is in the USA or  
 Canada.  
 NOTES: **Use this N4 segment for additional location information.**

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N401	19	<b>City Name</b> Free-form text for city name.	C AN 2/19
N402	156	<b>State or Province Code</b> Code (Standard State/Province) defined by appropriate governmental agencies.	C ID 2/2
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States).	O ID 4/9
N404	26	<b>Country Code</b> Code identifying the country.	O ID 2/2
N405	309	<b>Location Qualifier</b> Code identifying type of location.	O ID 1/2

**Recommended by AVNET**

**An ASC X12 Data Maintenance request will be submitted for the following code definitions:**

- "83" Next Scheduled Destination (#83)
- "80" Final Scheduled Destination (#80)
- "84" Previous Station (#84)

N406	310	<b>Location Identifier</b> Code which identifies a specific location.	C AN 1/25
------	-----	--	-----------

**Use IATA Airport Codes**

SEGMENT: **CTT** Transaction Totals  
 LEVEL: Summary  
 LOOP: \_\_\_\_\_  
 USAGE: Mandatory  
 MAX USE: 1  
 PURPOSE: To transmit a hash total for a specific element in the transaction set  
 SYNTAX: 1 If CTT03 is present, then CTT04 is required.  
 2 If CTT05 is present, then CTT06 is required.  
 COMMENTS: **A** This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTT01	354	Number of Line Items Total number of line items in the transaction set.	M NO 1/6

**The ASC X12 003010 segment "CTT" has six additional data elements not used by AVNET.**

SEGMENT: **SE** Transaction Set Trailer  
 LEVEL: Summary  
 LOOP: \_\_\_\_\_  
 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).  
 COMMENTS: **A** SE is the last segment of each transaction set.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
SE01	96	<b>Number of Included Segments</b>	M	NO	1/6
		Total number of segments included in a transaction set including ST and SE segments.			
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9
		Identifying control number assigned by the originator for a transaction set.			