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
			LOOP ID - HL			**200000**
194	010	HL	Hierarchical Level	M	1	
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	
			LOOP ID - HL/CLD			**200**
N/U	170	CLD	Load Detail	O	1	
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	
			LOOP ID - HL/N1			**200**
210	220	N1	Name	O	1	
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**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set.	**M**	**ID**	**3/3**
		856 X12.10 Ship Notice/Manifest			
ST02	**329**	**Transaction Set Control Number** 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		
BSN01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set.	**M**	**ID**	**2/2**
		Business Requirement: Transaction Type (#18)			
		00 Original			
		01 Cancellation			
		05 Replace			
		18 Reissue			
BSN02	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment.	**M**	**AN**	**2/30**
		Business Requirement: Delivery Ticket Number (#5)			
BSN03	**373**	**Date** Date (YYMMDD).	**M**	**DT**	**6/6**
		Required by AVNET			
		Business Requirement: Delivery Ticket Date (#66)			
BSN04	**337**	**Time** Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	**M**	**TM**	**4/4**

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**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	**M**	**ID**	**3/3**
DTM02	**373**	**Date** Date (YYMMDD).	**C**	**DT**	**6/6**
DTM03	**337**	**Time** Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	**C**	**TM**	**4/4**
DTM04	**623**	**Time Code** 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**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	**M AN 1/12**
		Use ''1'', only one HL loop should be used in a Delivery Ticket.	
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O AN 1/12**
		Not Used by AVNET	
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure.	**M ID 1/2**
		S Shipment	

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

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** Alphanumeric characters assigned for differentiation within a transaction set.	**O**	**AN**	**1/6**

Use AVNET assigned:

BT Book Transfer
DF Defuel
RF Refuel
SV Service
UP Uplift

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).

Either a description or preferably a code is used for product or service.

AP API Refined Product Code
(ASC X12 Data Maintenance request to be submitted)

CN Commodity Name

SV Service Rendered

LIN03 234 Product/Service ID **M AN 1/30**
Identifying number for a product or service.

Required by AVNET

Product/Service description or API Product Code

LIN04 235 Product/Service ID Qualifier **O ID 2/2**
Code identifying the type/source of the descriptive number used in Product/Service ID (234).

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.

ZZ Mutually Defined

LIN05 234 Product/Service ID **C AN 1/30**
Identifying number for a product or service.

Business Requirement: Bonded Indicator (#42)
1 Bonded
2 Non-Bonded

LIN06 235 Product/Service ID Qualifier **O ID 2/2**
Code identifying the type/source of the descriptive number used in Product/Service ID (234).

ZZ Mutually Defined

LIN07 234 Product/Service ID **C AN 1/30**
Identifying number for a product or service.

Business Requirement: International Exempt (#44)
3 International Exempt
4 Non International Exempt

LIN08 235 Product/Service ID Qualifier **O ID 2/2**
Code identifying the type/source of the descriptive number used in Product/Service ID (234).

ZZ Mutually Defined

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

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

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

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

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

MEA08	**936**	**Measurement Attribute Code** Code used to express an attribute response when a numeric measurement value cannot be determined.	**C**	**ID**	**2/2**
		Not Used by AVNET			
MEA09	**752**	**Surface/Layer/Position Code** Code indicating the product surface, layer or position that is being described.	**O**	**ID**	**2/2**
		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**	**Item Description Type** Code indicating the format of a description.	**M**	**ID**	**1/1**
		Business Requirement: Type of Package (#61)			
		S Structured (From Industry Code List)			
PKG02	**753**	**Packaging Characteristic Code** Code specifying the marking, packaging, loading and related characteristics being described.	**O**	**ID**	**1/5**
		Required by AVNET			
		Business Requirement: Type of Package (#61)			
PKG03	**559**	**Association Qualifier Code** Code identifying the association assigning the code values.	**C**	**ID**	**2/2**
PKG04	**754**	**Packaging Description Code** A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.	**C**	**ID**	**1/7**
		Recommended by AVNET			
		See Appendix C, Packaged Code list.			

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**	**Equipment Description Code** 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

TJ Trailer, Tank (Chemicals)

TN Tank Car

VE Vessel, Ocean

TD302	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number.	**O**	**AN**	**1/4**

Recommended by AVNET

IATA Aircraft Type Code

TD303	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred).	**C**	**AN**	**1/10**

Recommended by AVNET

Government issued registration number

TD304	**187**	**Weight Qualifier** Code defining the type of weight.	**O**	**ID**	**1/2**

Not Used by AVNET

TD305	**81**	**Weight** Numeric value of weight.	**C**	**R**	**1/8**

Not Used by AVNET

TD306	**355**	**Unit of Measurement Code** Code identifying the basic unit of measurement.	**C**	**ID**	**2/2**

Not Used by AVNET

TD307	**102**	**Ownership Code** Code indicating the relationship of equipment to carrier.	**O**	**ID**	**1/1**

Not Used by AVNET

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**
		Use AVNET - assigned pending data maintenance. **66 Nomination Number** **67 Fund Code** **68 Major Force Program** **69 Signal Code**	
		AF Airlines Flight Identification Number **Business Requirement: Flight Number (#121)**	
		BM Bill of Lading Number **Business Requirement: Bill of Lading Number (#1)**	
		BT Batch Number **Business Requirement: Batch Number (#41)**	
		C6 Carnet Number **Business Requirement: Nomination Number (#50)**	
		P3 Previous customer reference number. **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**
		Business Requirement: Flight Indicator (#120) **(Used with Flight Number)** **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**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	**M ID 3/3**
		002 Delivery Requested **Call Out Time**	
		011 Shipped **Business Requirement: Shipped Date (#78)**	
		036 Expiration **Business Requirement: Carnet Expiry Date (#63)**	
		095 Bill of Lading **Business Requirement: Bill of Lading Date (#62)**	
		153 Service Interruption **Business Requirement: Interruption Time (#67)**	
		155 Adjustment Period End **Business Requirement: Re-Start Time (#77)**	
DTM02	**373**	**Date** Date (YYMMDD).	**C DT 6/6**
DTM03	**337**	**Time** Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	**C TM 4/4**
DTM04	**623**	**Time Code** 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: **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**	**Entity Identifier Code** Code identifying an organizational entity or a physical location.	**M**	**ID**	**2/2**
N102	**93**	**Name** Free-form name.	**C**	**AN**	**1/35**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67).	**C**	**ID**	**1/2**

Recommended by AVNET

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

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**	**City Name** Free-form text for city name.	**C**	**AN**	**2/19**
N402	**156**	**State or Province Code** Code (Standard State/Province) defined by appropriate governmental agencies.	**C**	**ID**	**2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States).	**O**	**ID**	**4/9**
N404	**26**	**Country Code** Code identifying the country.	**O**	**ID**	**2/2**
N405	**309**	**Location Qualifier** 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**	**Location Identifier** 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**	**N0**	**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**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments.	**M**	**N0**	**1/6**
SE02	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	**M**	**AN**	**4/9**