



# **DENSO North America Supplier Web**

*IMPLEMENTATION GUIDELINES FOR ASC X12 EDI CONVENTIONS*

*SHIP NOTICE/MANIFEST TRANSACTION SET (856)  
VERSION/RELEASE 004010*

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## Data Format Specification

Data elements and data segments can be classified differently in different transaction sets:

<b>M</b>	Mandatory
<b>O</b>	Optional
<b>X</b>	Conditional – depends on contents of other field or condition

## Data Elements

All data elements are assigned minimum required and maximum permissible character lengths specified in the data element dictionary. If a data element is transmitted, it must meet minimum/maximum length requirements, regardless of the element's content.

Each data element has a defined data type specified in the data element dictionary. Data types include:

<b>ID</b>	Identification
<b>Nn</b>	Numeric without decimal point, positive if there is not minus
<b>R</b>	Explicit
<b>AN</b>	Alphanumeric
<b>DT</b>	Date
<b>TM</b>	Time
<b>4/10</b>	Element Length 10, use at least 4

For transmission purposes, numeric (Nn) and decimal (R) fields are assumed to be positive unless a leading minus sign indicating a negative value is transmitted. A plus sign is never transmitted. When transmitted, the minus sign (-) and the decimal point (data type [R]), are not counted as part of the data element's length.

- The decimal point for numeric (Nn) data types is implicitly located within the data element according to the specified data type, but is not transmitted with the data. For example, data type N3 implies three decimal places.

**Example:** Value to be communicated: -123.45  
Data Element Type: N3  
Transmission content: -123450  
(Computed length equals 6)

- The decimal point for decimal (R) data types is explicitly located within the data element. There is no limit on the number of fractional digits, as long as the total number of digits does not exceed the maximum length specified.

**Example:** Value to be communicated: -123.45  
Data Element Type: R  
Transmission content: -123.45  
(Computed length equals 5)

- If a data element is not transmitted, its default value cannot be assumed (e.g., a numeric data element not transmitted cannot be assumed to have a value of zero {0}).
- Numeric and decimal data should be transmitted with only significant zeros. Alphanumeric data elements should be transmitted with no leading or trailing blanks.
- Conditional relationships within a data segment are noted and explained in the specification



## 856 Ship Notice/Manifest

### **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.

### **Note:**

A cancellation ASN should be identical to the Original ASN from ST to SE with the only exception being that the BSN01 is "01" (Cancellation) instead of "00" (Original)



## Heading

Pos. No.	Seg. ID	Name	Req.	Max. Use	Notes and Comments
	ISA	Interchange Control Header	M	1	
	GS	Functional Group Header	M	1	
	ST	Transaction Set Header	M	1	
001	BSN	Beginning Segment for Ship Notice	M	1	
002	DTM	Date/Time Reference	M	10	

## Shipment Level

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
		LOOP ID – HL			1	
003	HL	Hierarchical Level	M	1		
007	MEA	Measurements	M	2		
009	TD5	Carrier Details (SCAC)	M	1		
010	TD3	Carrier Details (Trailer)	M	1		
012	REF	Reference Identification	M	1		
		LOOP ID – N1			2	
013	N1	Name	M	1		

## Item Level

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
		LOOP ID – HL			200000	
020	HL	Hierarchical Level	M	1		
022	LIN	Item Identification	M	1		
024	SN1	Item Detail (Shipment)	M	1		
027	CLD	Load Detail	M	1		
	REF	Serial Numbers	O	100		

## Summary

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
030	CTT	Transaction Totals	M	1		
031	SE	Transaction Set Trailer	M	1		
	GE	Functional Group Trailer	M	1		
	ISE	Interchange Control Trailer	M	1		

**Segment: ISA Interchange Control Header**

**Position:**

**Loop:**

**Level:** Heading

**Usage:** Mandatory 1 per interchange

**Max Use:** 1

**Purpose:** To start and identify an interchange of one or more functional groups and interchange-related control segments

**Syntax Notes:**

**Semantic Notes:**

1. The actual values of the data element separator and the data segment terminator for this interchange are set by the interchange control header. For a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the data segment terminator. The extent of this particular usage of the data element separator and the data segment separator terminator is from this header to and including the next interchange trailer.

The interchange control number value in ISA13 in this header must match the value in the same data element n the corresponding interchange control trailer in IEA02 .

**Comments:** Send only one ISA per transmission/file.

The first occurrence of the data element separator (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk “\*”. The first occurrence of the segment terminator, 1 byte after the data element ISA16, defines the actual value of the data segment terminator and is graphically displayed as ~.

**Example:**

ISA\*00\* \*00\* \*ZZ\*Supplier \*ZZ\*NASWEB \*110426\*1438\*U\*00401\*000000031\*0\*T\*>~

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
ISA01	I01	Authorization Information Qualifier	M ID 2/2
		00 No Authorization Information Present	
ISA02	I02	Authorization Information	M AN 10/10
		10 empty spaces must be entered here as the ISA segment is space sensitive.	
ISA03	I03	Security Information Qualifier	M ID 2/2
		00 No Password	
ISA04	I04	Security Information	M ID 10/10
		10 empty spaces must be entered here as the ISA segment is space sensitive.	
ISA05	I05	Interchange ID Qualifier	M ID 2/2
ISA06	I06	Interchange Sender ID	M ID 15/15
		Left justify, space fill	
ISA07	I05	Interchange ID Qualifier	M ID 2/2
ISA08	I07	Interchange Receiver ID	M ID 15/15
		Left justify, space fill	
ISA09	I08	Interchange Date	M DT 6/6
		Date of creation	
ISA10	I09	Interchange Time	M TM 4/4
		Time of creation	
ISA11	I10	Interchange Control Standards Identifier	M ID 1/1
		U United States	
ISA12	I11	Interchange Control Version Number	M ID 5/5

		00401	
ISA13	I12	<b>Interchange Control Number</b>	<b>M N0 9/9</b>
A number that cannot be repeated within a 1 year period at a time			
ISA14	I13	<b>Acknowledgment Requested</b>	<b>M ID 1/1</b>
Use "0" for no Ack. Req., use "1" for Ack. Req.			
0 Should always be a "0"			
ISA15	I14	<b>Test Indicator</b>	<b>M ID 1/1</b>
Use "T" for test data or "P" for production data			
Do NOT send test data unless specifically requested and coordinated			
ISA16	I15	<b>Component Element Separator</b>	<b>M ID 1/1</b>
This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this must be different from the data element separator).			



**Segment:** **GS** Functional Group Header  
**Position:**  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory 1 per functional group  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a functional group and to provide control information  
**Syntax Notes:**  
**Semantic Notes:** The data interchange control number GS06 in this header must be identical to the same data element in the associated Functional Group Trailer GE02.

**Comments:** Strict compliance and agreement on content by trading partners is required.

**Example:** GS\*SH\*NASWEB\*Supplier\*20110426\*1438\*31\*X\*004010~

### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
GS01	479	Functional Identifier Code	M ID 2/2
		SH Ship Notice	
GS02	142	Application Sender's Code	M ID 2/15
GS03	124	Application Receiver's Code	M ID 2/15
GS04	373	Date	M DT 8/8
		Date Created	
GS05	337	Time	M TM 4/8
		Time created	
GS06	25	Group Control Number	M N0 1/9
		Start with 1 and increment by 1 for each subsequent GS segment	
GS07	455	Responsible Agency Code	M ID 1/2
		Code used in conjunction with Data Element GS08 to identify the issuer of the standard	
		X ASC X12 format	
GS08	480	Version/Release/Industry ID Code	M ID 6/12
		This code indicates the version, release and subrelease of the EDI standard being used, including the GS and GE segments. Positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version	
		004010 Draft Standard	

**Segment:** **ST** Transaction Set Header

**Position:**

**Loop:** Heading

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of a transaction set and to assign a control number

**Syntax Notes:** 1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 810 selects the Invoice Transaction Set)

**Semantic Notes:** The Transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE)

**Comments:**

**Example:** ST\*856\*123456789~

### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		856 Ship Notice/Manifest	
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set.	





**Segment:** **BSN** Beginning Segment for Ship Notice  
**Position:** 001  
**Loop:** Heading  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1. The date and time are the date and local time of the creation of the transaction  
**Example:** BSN\*00\*1\*20110426\*1510~

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
BSN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set	M ID 2/2
		00 Original	
		01 Cancel	
BSN02	396	<b>Shipment Identification</b> A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
		Unique supplier-assigned number that is not repeated within a one year period when BSN01 = "00".	
BSN03	373	<b>Issue Date</b> Date (CCYYMMDD)	M DT 8/8
BSN04	337	<b>Issue Time</b> Time (HHMM) – Time expressed in 24 hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59)	M DT 4/8

Note: A cancellation cancels your last accepted ASN with the same Shipment ID in entirety.  
You can not cancel portions of a previous ASN.



**Segment:** **DTM** Date/Time Reference  
**Position:** 002  
**Loop:** Heading  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** DTM01-DTM04 are all required.  
 Note: Ship Date and Time can not be in the future.  
**Example:** **DTM\*011\*20120402\*1510\*ET~**  
*This tells us: "The shipment left our dock on April 4, 2012 at 3:10pm, Eastern Standard Time*

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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>011 Shipped</b>	
DTM 02	373	<b>Issue Date</b> Date (CCYYMMDD)	<b>M DT 8/8</b>
DTM 03	337	<b>Issue Time</b> Time (HHMM) – Time expressed in 24 hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59)	<b>M DT 4/8</b>
DTM 04	623	<b>Time Code</b> <b>Valid Time Codes are listed below:</b> 00 = GMT 01 = GMT + 1 hour 02 = GMT + 2 hours 03 = GMT + 3 hours 04 = GMT + 4 hours 05 = GMT + 5 hours 06 = GMT + 6 hours 07 = GMT + 7 hours 08 = GMT + 8 hours 09 = GMT + 9 hours 10 = GMT + 10 hours 11 = GMT + 11 hours 12 = GMT + 12 hours 13 = GMT - 12 hours 14 = GMT - 11 hours 15 = GMT - 10 hours 16 = GMT - 9 hours 17 = GMT - 8 hours 18 = GMT - 7 hours 19 = GMT - 6 hours 20 = GMT - 5 hours 21 = GMT - 4 hours 22 = GMT - 3 hours 23 = GMT - 2 hours 24 = GMT - 1 hour	<b>M ID 2/2</b>

**For suppliers shipping from locations within the United States, these codes may also be used:**

ET = Eastern Time  
 CT = Central Time  
 MT = Mountain Time  
 PT = Pacific Time

**During periods of Daylight Savings Time use:**  
 ED = Eastern Daylight Time  
 CD = Central Daylight Time  
 MD = Mountain Daylight Time  
 PD = Pacific Daylight Time

**Segment:** **HL** Hierarchical Level – Shipment Level  
**Position:** 003  
**Loop:** HL  
**Level:** Shipment Level  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data Segments

**Syntax Notes:**

**Semantic Notes:** 1. HL at the detail Shipment Level must only occur once and must be the first HL in the transaction set

- Comments:**
1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
  2. The HL segment defines a top-down/left-right ordered structure.
  3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

**Example:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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	
		1	Shipment Level
HL03	735	Hierarchical Level Code	M ID ½
		Code defining the characteristic of a level in a hierarchical structure	
		S	Shipment



**Segment:** **MEA** Measurements

**Position:** 0007

**Loop:** HL

**Level:** Shipment Level

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

**Syntax Notes:**

**Semantic Notes:** 1. MEA04 defines the unit of measure for MEA03

**Comments:**

**Example:** MEA\*PD\*G\*15704\*LB~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies	M ID 2/2
		<b>PD</b> Physical Dimensions	
MEA02	738	Measurement Code identifying a specific product or process characteristic to which a measurement applies	M ID 1/3
		<b>G</b> Gross Weight	
		<b>N</b> Net Weight	
MEA03	739	Measurement Value – Shipment Weight The value of the measurement	M R 1/20
MEA04	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	M ID 2/2
		<b>LB</b> Actual Pounds (US)	



**Segment:** **TD5** Carrier Details (Carrier Information)

**Position:** 009

**Loop:** HL

**Level:** Shipment Level

**Usage:** Mandatory

**Max Use:** 12

**Purpose:** To specify the carrier

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1. Maximum use of this TD5 segment is one.

**Example:** TD5\*B\*2\*RDWY\*M~

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD501	133	<b>Routing Sequence Code</b>	M ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		<b>B</b> <b>Origin/Delivery Carrier (Any Mode)</b>	
TD502	66	<b>Identification Code Qualifier</b>	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<b>2</b> <b>Standard Carrier Alpha Code (SCAC)</b>	
TD503	67	<b>Identification Code</b>	M ID 2/4
		Code identifying a party.	
		<b>Identification Code</b>	
TD504	91	<b>Transportation Method/Type Code</b>	M ID 2/4
		Code specifying the method or type of transportation for the shipment	
		<b>Any code except Mutually Defined</b>	



**Segment:** **TD3** Carrier Details (Equipment)

**Position:** 010

**Loop:** HL

**Level:** Shipment Level

**Usage:** Mandatory

**Max Use:** 12

**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1. Maximum use of this TD3 segment is one. This TD3 is used to identify the serial number of the trailer or railcar.

**Example:** TD3\*TL\*\*9933~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment	M ID 2/2
		<b>TL</b> Trailer	
TD303	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M AN 1/10



**Segment:** **REF** Reference Identification  
**Position:** 012  
**Loop:** HL  
**Level:** Shipment Level  
**Usage:** Mandatory  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Example:** REF\*BM\*203162172~  
REF\*CN\*41433437427~  
REF\*PK\*210339~  
REF\*SN\*12345678~

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice) PK Packing List Number SN Seal Number	
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:** **N1** Name  
**Position:** 013  
**Loop:** HL/N1  
**Level:** Shipment Level  
**Usage:** Mandatory  
**Max Use:** 2  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1. At least one of N102 or N104 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.  
**Example:** N1\*Sf\*ABC\*92\*AA-G69~  
 N1\*ST\*DMMI\*92\*DMMIM1~

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, or an individual	<b>M ID 2/2</b>
		<b>SF Ship From</b> Party responsible for the material or service.	
		<b>ST Ship To</b> DENSO Plant to which material is being shipped	
N102	93	<b>Name</b> Free-form name Name of the Ship From (SF) party	<b>X AN 1/60</b>
N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67)	<b>X ID 1/2</b>
		<b>92 Assigned By Buyer</b>	
N104	67	<b>Identification Code</b> Code identifying a party or other code SF - Should be taken from the N1*SU of the 862 ST - Should be taken from the N1*ST of the 862	<b>X AN 2/80</b>



**Segment:** **HL** Hierarchical Level

**Position:** 020

**Loop:** HL

**Level:** Item Level

**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.
  2. The HL segment defines a top-down/left-right ordered structure.
  3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

**Example:**

### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure – counter for HL incremented by one for each HL-Occurrence	M AN 1/12
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	M AN 1/12
		<b>Item Level Number</b>	
HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
		<b>I</b> <b>Item Level</b>	



**Segment:** **LIN** Item Identification  
**Position:** 022  
**Loop:** HL  
**Level:** Item Level  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Syntax Notes:** If LIN06 is specified, LIN07 must be specified  
**Semantic Notes:**  
**Comments:** If returnable container ID is not known, do not provide LIN06 or LIN07  
 If parts shipped in Alternative packaging, specify "ALT" as the container ID  
**Example:** LIN\*\*BP\*AA445320-1120\*DO\*20227123\*RC\*ALT~

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	<b>M ID 2/2</b>
		BP Buyer's Part Number	
LIN03	234	<b>Product/Service ID - Buyer's Part</b> Identifying number for a product or service	<b>M AN 1/15</b>
LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	<b>M ID 2/2</b>
		DO Delivery Order Number (Manifest)	
LIN05	234	<b>Product/Service ID – Delivery Order Number</b> Identifying number for a product or service	<b>M AN 1/10</b>
		Delivery Order Number from 862	
LIN06	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	<b>M ID 2/2</b>
		RC Returnable Container ID	
LIN07	234	<b>Product/Service ID – Returnable packaging ID</b> Identifying number for a product or service	<b>X AN 1/40</b>
		Returnable Container ID or ALT if alternative packaging	



**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 024  
**Loop:** HL  
**Level:** Item Level  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1. Used to show the net quantity being shipped and the unit of measure  
**Example:** SN1\*\*30\*EA~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SN102	382	<b>Number of Units Shipped</b>	<b>M R 1/10</b>
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
SN103	355	<b>Unit or Basis for Measurement Code</b>	<b>M ID 2/2</b>
		Code specifying the units in which a value is being expressed or manner in which a measurement has been taken. This must be the same Unit of Measure provided on the corresponding releasing document.	



**Segment:** **CLD** Load Detail  
**Position:** 027  
**Loop:** HL  
**Level:** Item Level  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify identifying information  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Example:** CLD\*2\*24~

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CLD01	622	Number of loads Number of containers	M ID 2/3
CLD02	382	Number of units shipped Number of units in those containers	M R 1/7



**Segment:** **REF** Reference Identification  
**Position:**  
**Loop:** HL/CLD  
**Level:** Detail - Item Level  
**Usage:** Optional  
**Max Use:** 100  
**Purpose:** To specify identifying information  
**Syntax Notes:** At least one of REF02 or REF03 is required  
**Semantic Notes:**  
**Comments:**  
**Example:** REF\*LS\*05042119~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		LS Bar-Coded Serial Number	
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	C AN 1/30
		Container label serial number	



**Segment:** **CTT** Transaction Totals  
**Position:** 030  
**Loop:** Summary  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1.This segment is intended to provide hash totals to validate transaction completeness and correctness.  
**Example:** CTT\*3~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CTT01	354	Number of Line Items Total number of HL Segments in the transaction set	M N0 1/6



**Segment:** **SE** Transaction Set Trailer

**Position:** 031

**Loop:** Summary

**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.
  2. The Transaction Set Control Number value in this trailer must match the same element value in the Transaction Set Header (ST02).

**Example:** SE\*45\*123456789~

#### Data Element Summary

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



**Segment:** **GE** Functional Group Trailer  
**Position:**  
**Loop:**  
**Level:** N/A  
**Usage:** Mandatory 1 per functional group  
**Max Use:** 1  
**Purpose:** To indicate the end of a functional group and to provide control information  
**Syntax Notes:**  
**Semantic Notes:** The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated functional group header (GS06).  
**Comments:**  
**Example:** GE\*1\*31~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
GE01	97	<b>Number of Transaction Sets Included</b> Total number of ST segments in group	<b>M N0 1/6</b>
GE02	28	<b>Group Control Number</b> Must be identical to the same data element in the associated group header (GS06)	<b>M N0 1/9</b>





**Segment:** **IEA** Interchange Control Trailer

**Position:**

**Loop:**

**Level:** N/A

**Usage:** Mandatory 1 per Interchange

**Max Use:** 1

**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments

**Syntax Notes:**

**Semantic Notes:** The interchange control number IEA02 in this trailer must match the value in ISA13

**Comments:**

**Example:** IEA\*1\*00000031~

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
IEA01	I16	Number of Included Functional Groups Number of GS segments included between ISA and this IEA	M N0 1/5
IEA02	I12	Interchange Control Number Must match ISA13	M N0 9/9