

856 Ship Notice/Manifest

FUNCTIONAL GROUP ID - **SH**

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.

Header

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
3	010	ST	Transaction Set Header	M	1	
4	020	BSN	Beginning Segment for Ship Notice	M	1	
5	030	NTE	Note/Special Instruction	F	100	
6	040	DTM	Date/Time Reference	O	10	

Detail

7	010	HL	Hierarchical Level	M	1	200000
9	020	LIN	Item Identification	O	1	
12	030	SN1	Item Detail (Shipment)	O	1	
13	040	SLN	Subline Item Detail	O	100	
16	050	PRF	Purchase Order Reference	O	1	
17	060	PO4	Item Physical Details	O	1	
19	070	PID	Product/Item Description	O	200	
20	080	MEA	Measurements	O	40	
22	090	PWK	Paperwork	O	25	
23	100	PKG	Marking, Packaging, Loading	O	25	
24	110	TD1	Carrier Details (Quantity and Weight)	O	20	
25	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
27	130	TD3	Carrier Details (Equipment)	O	12	
28	140	TD4	Carrier Details (Special Handling/Hazardous Materials)	O	5	

29	150	REF	Reference Numbers	O	200	
30	160	PER	Administrative Communications Contact	O	1	
31	170	CLD	Load Detail	O	1	200
32	180	REF	Reference Numbers	O	200	
33	190	MAN	Marks and Numbers	O	10	
34	200	DTM	Date/Time Reference	O	10	
35	210	FOB	F.O.B. Related Instructions	O	1	
36	220	N1	Name	O	1	200
37	230	N2	Additional Name Information	O	2	
38	240	N3	Address Information	O	2	
39	250	N4	Geographic Location	O	1	
40	260	REF	Reference Numbers	O	12	
41	270	PER	Administrative Communications Contact	O	3	
42	280	FOB	F.O.B. Related Instructions	O	1	
43	290	SDQ	Destination Quantity	O	50	
45	300	ETD	Excess Transportation Detail	O	1	
46	310	CUR	Currency	O	1	
49	320	ITA	Allowance, Charge or Service	O	10	

Summary

50	010	CTT	Transaction Totals	M	1	
51	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
BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment.	M AN 2/30
BSN03	373	Date Date (YYMMDD).	M DT 6/6
BSN04	337	Time Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	M TM 4/4

Segment: **NTE** Note/Special Instruction
Level: Header
Loop: ____
Usage: Floating
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Comments: **A** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the "NTE" segment should therefore be avoided, if at all possible, in an automated environment.

Notes: **Not Commonly Used by PIDX**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
NTE01	363	Note Reference Code Code identifying the functional area or purpose for which the note applies.	O ID 3/3
NTE02	3	Free Form Message Free-form text.	M AN 1/60

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: **Recommended by PIDX**

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
Required by PIDX			
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
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 PIDX			
HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure.	M ID 1/2
When HL03 equals "S", then the following segments can be used in the HL loop: MEA, TD1, TD5, TD3, TD4, REF, FOB, N1, N2, N3, N4, PER.			
When HL03 equals "I", then the following segments can be used in the HL loop: LIN, SN1, PRF.			

I Item	
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 PIDX	

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 PIDX
 Used when HL03 equals "I", Item

Data Element Summary

REF. DES.	DATA ELEMENT NAME	ATTRIBUTES
LIN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. Not Used by PIDX	O AN 1/6
LIN02	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Required by PIDX VP Vendor's (Seller's) Part Number	M ID 2/2

LIN03	234 Product/Service ID Identifying number for a product or service. Required by PIDX	M AN 1/30
LIN04	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). CB Buyer's Catalog Number	O ID 2/2
LIN05	234 Product/Service ID Identifying number for a product or service.	C AN 1/30
LIN06	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
LIN07	234 Product/Service ID Identifying number for a product or service.	C AN 1/30
LIN08	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O ID 2/2
LIN09	234 Product/Service ID Identifying number for a product or service. Not Used by PIDX	C AN 1/30
LIN10	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O ID 2/2
LIN11	234 Product/Service ID Identifying number for a product or service. Not Used by PIDX	C AN 1/30
LIN12	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O ID 2/2
LIN13	234 Product/Service ID Identifying number for a product or service. Not Used by PIDX	C AN 1/30
LIN14	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O ID 2/2
LIN15	234 Product/Service ID Identifying number for a product or service. Not Used by PIDX	C AN 1/30
LIN16	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O ID 2/2
LIN17	234 Product/Service ID Identifying number for a product or service. Not Used by PIDX	C AN 1/30

LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN19	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN21	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN23	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN25	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN27	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN29	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
LIN31	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30

Segment: SN1 Item Detail (Shipment)
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To specify line item detail relative to shipment
Syntax: 1 If SN105 is present, then SN106 is required.
Comments: A SN101 is the ship notice line item identification.
 B SN103 defines the unit of measurement for both SN102 and SN104.
Notes: Required by PIDX
 Used when HL03 equals "I", Item

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. Not Used by PIDX	O AN 1/6
SN102	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	M R 1/10
SN103	355	Unit of Measurement Code Code identifying the basic unit of measurement.	M ID 2/2
SN104	646	Quantity Shipped to Date Number of units shipped to date.	O R 1/9
SN105	330	Quantity Ordered Quantity ordered.	O R 1/9
SN106	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2
SN107	728	Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment. Not Used by PIDX	O ID 1/2
SN108	668	Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer. Not Used by PIDX	O ID 2/2

Segment: **SLN** Subline Item Detail

Level: Detail

Loop: HL

Usage: Optional

Max Use: 100

Purpose: To specify product subline detail item data

- Syntax:**
- 1 If SLN06 is present, then SLN08 is required.
 - 2 If SLN07 is present, then SLN06 is required.
 - 3 If SLN09 is present, then SLN10 is required.
 - 4 If SLN11 is present, then SLN12 is required.
 - 5 If SLN13 is present, then SLN14 is required.
 - 6 If SLN15 is present, then SLN16 is required.
 - 7 If SLN17 is present, then SLN18 is required.
 - 8 If SLN19 is present, then SLN20 is required.
 - 9 If SLN21 is present, then SLN22 is required.
 - 10 If SLN23 is present, then SLN24 is required.
 - 11 If SLN25 is present, then SLN26 is required.
 - 12 If SLN27 is present, then SLN28 is required.

- Comments:**
- A See the Data Dictionary for a complete list of ID's.
 - B SLN01 is the identifying number for the subline item. It is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
 - C SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
 - D SLN03 through SLN28 provide for eleven (11) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SLN01	350	Assigned Identification	M AN 1/6
		Alphanumeric characters assigned for differentiation within a transaction set.	
SLN02	350	Assigned Identification	O AN 1/6
		Alphanumeric characters assigned for differentiation within a transaction set.	
		Not Used by PIDX	
SLN03	661	Configuration Code	M ID 1/1
		Code indicating the relationship of the subline item to the baseline item.	
SLN04	380	Quantity	M R 1/10
		Numeric value of quantity.	
SLN05	355	Unit of Measurement Code	M ID 2/2
		Code identifying the basic unit of measurement.	

SLN06	212	Unit Price	C R 1/14
		Price per unit of product, service, commodity, etc.	
		Not Used by PIDX	
SLN07	639	Basis of Unit Price Code	O ID 2/2
		Code identifying the type of unit price for an item.	
		Not Used by PIDX	
SLN08	662	Subline Price Change Code ID	C ID 1/1
		Code indicating the relationship of the subline item unit price to the baseline item unit price.	
		Not Used by PIDX	
SLN09	235	Product/Service ID Qualifier	O ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).	
		VP Vendor's (Seller's) Part Number	
SLN10	234	Product/Service ID	C AN 1/30
		Identifying number for a product or service.	
SLN11	235	Product/Service ID Qualifier	O ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).	
		CB Buyer's Catalog Number	
SLN12	234	Product/Service ID	C AN 1/30
		Identifying number for a product or service.	
SLN13	235	Product/Service ID Qualifier	O ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).	
SLN14	234	Product/Service ID	C AN 1/30
		Identifying number for a product or service.	
SLN15	235	Product/Service ID Qualifier	O ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).	
		Not Used by PIDX	
SLN16	234	Product/Service ID	C AN 1/30
		Identifying number for a product or service.	
		Not Used by PIDX	
SLN17	235	Product/Service ID Qualifier	O ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).	
		Not Used by PIDX	
SLN18	234	Product/Service ID	C AN 1/30
		Identifying number for a product or service.	
		Not Used by PIDX	
SLN19	235	Product/Service ID Qualifier	O ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).	
		Not Used by PIDX	
SLN20	234	Product/Service ID	C AN 1/30
		Identifying number for a product or service.	
		Not Used by PIDX	

SLN21	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
SLN22	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
SLN23	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
SLN24	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
SLN25	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
SLN26	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30
SLN27	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). Not Used by PIDX	O	ID	2/2
SLN28	234	Product/Service ID Identifying number for a product or service. Not Used by PIDX	C	AN	1/30

Segment: PRF Purchase Order Reference
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Notes: **Required by PIDX**

Used when HL03 equals "I", Item
PRF05 when used should indicate the purchase order line item number.

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
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
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
PRF04	323	Purchase Order Date Date assigned by the purchaser to Purchase Order. Not Used by PIDX	O DT 6/6
PRF05	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. Recommended by PIDX	O AN 1/6
PRF06	367	Contract Number Contract number.	O AN 1/30

Segment: **PO4** Item Physical Details
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights and dimensions relating to the item.
Syntax: 1 If PO402 is present, then PO403 is required.
 2 If PO405 is present, then at least one of PO406 or PO407 is required.
 3 If PO408 is present, then PO409 is required.
 4 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
Comments: **A** PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
B PO410 defines the unit of measure for PO408, PO409, and PO410.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PO401	356	Pack Number of inner pack units per outer pack unit.	O NO 1/6
PO402	357	Size Size of supplier units in pack.	O R 1/8
PO403	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2
PO404	103	Packaging Code Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material.	O ID 5/5
PO405	187	Weight Qualifier Code defining the type of weight. Recommended by PIDX	O ID 1/2
PO406	384	Gross Weight per Pack Numeric value of gross weight per pack. Recommended by PIDX	C R 1/9
PO407	355	Unit of Measurement Code Code identifying the basic unit of measurement. Recommended by PIDX	C ID 2/2
PO408	385	Gross Volume per Pack Numeric value of gross volume per pack.	O R 1/9
PO409	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2

PO410 82 Length O R 1/8
Largest horizontal dimension of an object measured when the object is in the upright position.
PO411 189 Width O R 1/8
Shorter measurement of the two horizontal dimensions measured with the object in the upright position.
PO412 65 Height O R 1/8
Vertical dimension of an object measured when the object is in the upright position.
PO413 355 Unit of Measurement Code C ID 2/2
Code identifying the basic unit of measurement.

FINAL

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.

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
F Free-form			
PID02	750	Product/Process Characteristic Code Code specifying the product or process characteristic being described.	O ID 2/3
Not Used by PIDX			
PID03	559	Association Qualifier Code Code identifying the association assigning the code values.	C ID 2/2
Not Used by PIDX			
PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic.	C ID 1/12
Not Used by PIDX			
PID05	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80
Recommended by PIDX			
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 PIDX			

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: **Recommended by PIDX**

Used when HL03 equals "S", Shipment

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 PIDX			
PD Physical Dimensions (Product Ordered)			
MEA02	738	Measurement Qualifier Code identifying the type of measurement.	O ID 1/3
Recommended by PIDX			
G Gross Weight			
N Actual Net Weight			
MEA03	739	Measurement Value The value of the measurement.	C R 1/10
Recommended by PIDX			
MEA04	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2
Recommended by PIDX			
MEA05	740	Range Minimum The value specifying the minimum of the measurement range.	C R 1/10
MEA06	741	Range Maximum The value specifying the maximum of the measurement range.	C R 1/10
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value.	O ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined.	C ID 2/2

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

FINAL

Segment: PWK Paperwork

Level: Detail

Loop: HL

Usage: Optional

Max Use: 25

Purpose: To specify the type and transmission of paperwork relating to a product, order or report.

Syntax: 1 If either PWK05 or PWK06 is present, then the other is required.

Comments: **A** PWK05 and PWK06 may be used to identify the addressee by a code number.

B PWK07 may be used to indicate special information to be shown on the specified report.

C PWK08 may be used to indicate action pertaining to a report.

Data Element Summary

REF. DIS.	DATA ELEMENT	NAME	ATTRIBUTES
PWK01	755	Report Type Code Code indicating the title and/or contents of a document or report.	M ID 2/2
		CA Certificate of Analysis	
		IT Certified Inspection and Test Results	
		MS Material Safety Data Sheet	
		QR Quality Report	
PWK02	756	Report Transmission Code Code defining timing and transmission method by which reports are to be sent.	M ID 2/2
PWK03	757	Report Copies Needed The number of copies of a report that should be sent to the addressee.	O NO 1/2
		Not Used by PIDX	
PWK04	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	O ID 2/2
PWK05	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
PWK06	67	Identification Code Code identifying a party.	C ID 2/17
PWK07	352	Description A free-form description to clarify the related data elements and their content.	O AN 1/80
		Not Used by PIDX	
PWK08	704	Paperwork/Report Action Code Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required.	O ID 1/2
		Not Used by PIDX	

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).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PKG01	349	Item Description Type Code indicating the format of a description. F Free-form	M ID 1/1
PKG02	753	Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described. 10 Shipping Package Labeling 63 Marking Method	O ID 1/5
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
PKG05	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

Segment: **TD1** Carrier Details (Quantity and Weight)
Level: Detail
Loop: HL
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight and quantity.
Syntax: 1 If TD101 is present, then TD102 is required.
 2 If TD103 is present, then TD104 is required.
 3 If TD106 is present, then TD107, and TD108 are required.
Notes: **Used when HL03 equals "S", Shipment**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	103	Packaging Code Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material. Recommended by PIDX	O ID 5/5
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity. Recommended by PIDX	C N0 1/7
TD103	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code.	O ID 1/1
TD104	22	Commodity Code Code describing a commodity or group of commodities.	C ID 1/16
TD105	79	Lading Description Description of an item as required for rating and billing purposes.	O AN 1/50
TD106	187	Weight Qualifier Code defining the type of weight.	O ID 1/2
TD107	81	Weight Numeric value of weight.	C R 1/8
TD108	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)
Level: Detail
Loop: HL
Usage: Optional
Max Use: 12
Purpose: To specify the carrier, sequence of routing and to provide transit time information
Syntax: 1 At least one of TD502, TD504, or TD505 must be present.
 2 If TD502 is present, then TD503 is required.
 3 If TD507 is present, then TD508 is required.
 4 If TD510 is present, then TD511 is required.
Comments: A When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement: use TD502 to identify the party responsible for defining the routing sequence; use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
Notes: **Used when HL03 equals "S", Shipment**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement.	O ID 1/2
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
TD503	67	Identification Code Code identifying a party.	C ID 2/17
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment.	C ID 1/2
Recommended by PIDX			
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.	C AN 1/35
TD506	368	Shipment/Order Status Code Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.	O ID 2/2
TD507	309	Location Qualifier Code identifying type of location.	O ID 1/2
TD508	310	Location Identifier Code which identifies a specific location.	C AN 1/25
TD509	731	Transit Direction Code The point of origin and point of direction.	O ID 2/2
TD510	732	Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time.	O ID 2/2
Recommended by PIDX			

TD511 733 Transit Time C R 1/4
 The numeric amount of transit time.
Recommended by PIDX

FINAL

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: Used when HL03 equals "S", Shipment

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
TD302	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number.	O AN 1/4
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
TD304	187	Weight Qualifier Code defining the type of weight.	O ID 1/2
TD305	81	Weight Numeric value of weight.	C R 1/8
TD306	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2
TD307	102	Ownership Code Code indicating the relationship of equipment to carrier.	O ID 1/1

Segment: TD4 Carrier Details (Special Handling/Hazardous Materials)
Level: Detail
Loop: HL
Usage: Optional
Max Use: 5
Purpose: To specify transportation special handling requirements and hazardous materials information
Syntax: 1 At least one of TD401 or TD404 must be present.
 2 If TD402 is present, then TD403 is required.
Notes: Used when HL03 equals "S", Shipment

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD401	152	Special Handling Code Code specifying special transportation handling instructions. Recommended by PIDX	C ID 2/3
TD402	208	Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209).	O ID 1/1
TD403	209	Hazardous Material Class Code Code specifying the kind of hazard for a material.	C ID 2/4
TD404	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

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: **Used when HL03 equals "S", Shipment**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
		AG Agent's Shipment Number	
		ED Export Declaration	
		EP Export Permit Number	
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
		Recommended by PIDX	
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80
		Not Used by PIDX	

Segment: **PER** Administrative Communications Contact
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax: 1 If PER03 is present, then PER04 is required.
Notes: **Not Commonly Used by PIDX**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named.	M ID 2/2
PER02	93	Name Free-form name.	O AN 1/35
PER03	365	Communication Number Qualifier Code identifying the type of communication number.	O ID 2/2
		Recommended by PIDX	
PER04	364	Communication Number Complete communications number including country or area code when applicable.	C AN 7/21
		Recommended by PIDX	

Segment: **CLD** Load Detail
Level: Detail
Loop: HL/CLD **Repeat:** 200
Usage: Optional
Max Use: 1
Purpose: To specify the number of material loads shipped.
Comments: **A** The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.
B CLD05, "Unit of Measure Code,," is used to dimension the value given in CLD04, "Size."
Notes: **Not Commonly Used by PIDX**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CLD01	622	Number of Loads Number of customer-defined loads shipped by the supplier.	M NO 1/5
CLD02	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	M R 1/10
CLD03	103	Packaging Code Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material. Not Used by PIDX	O ID 5/5
CLD04	357	Size Size of supplier units in pack. Not Used by PIDX	O R 1/8
CLD05	355	Unit of Measurement Code Code identifying the basic unit of measurement. Not Used by PIDX	O ID 2/2

Segment: **REF** Reference Numbers
Level: Detail
Loop: HL/CLD
Usage: Optional
Max Use: 200
Purpose: To specify identifying numbers.
Syntax: 1 Either REF02 or REF03 is required.
Notes: **Not Commonly Used by PIDX**
Used when HL03 equals "S", Shipment

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Recommended by PIDX	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content. Not Used by PIDX	C AN 1/80

Segment: **MAN** Marks and Numbers
Level: Detail
Loop: HL
Usage: Optional
Max Use: 10
Purpose: To indicate identifying marks and numbers for shipping containers
Notes: **Not Commonly Used by PIDX**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87).	M ID 1/2
MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment.	M AN 1/45

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.

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). Required by PIDX	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: **FOB** F.O.B. Related Instructions
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax: 1 If FOB03 is present, then FOB02 is required.
 2 If FOB04 is present, then FOB05 is required.
 3 If FOB07 is present, then FOB06 is required.
 4 If FOB08 is present, then FOB09 is required.
Comments: A FOB01 indicates which party will pay the carrier.
 B FOB02 is the code specifying transportation responsibility location.
 C FOB06 is the code specifying title passage location.
 D FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.
Notes: Used when HL03 equals "S", Shipment

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges.	M ID 2/2
FOB02	309	Location Qualifier Code identifying type of location.	C ID 1/2
FOB03	352	Description A free-form description to clarify the related data elements and their content.	O AN 1/80
FOB04	334	Transportation Terms Qualifier Code Code identifying the source of the transportation terms.	O ID 2/2
FOB05	335	Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility.	C ID 3/3
FOB06	309	Location Qualifier Code identifying type of location. Recommended by PIDX	C ID 1/2
FOB07	352	Description A free-form description to clarify the related data elements and their content. Not Used by PIDX	O AN 1/80
FOB08	54	Risk of Loss Qualifier Code specifying where responsibility for risk of loss passes. Recommended by PIDX	O ID 2/2
FOB09	352	Description A free-form description to clarify the related data elements and their content. Recommended by PIDX	C AN 1/80

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: Used when HL03 equals "S", Shipment

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location. AG Agent CN Consignee SF Ship From SH Shipper ST Ship To VN Vendor	M ID 2/2
N102	93	Name Free-form name. Not Used by PIDX	C AN 1/35
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). Recommended by PIDX 1 Dun and Bradstreet (Credit Reporting) (DUNS) 4 International Air Transport Association (IATA) 9 DUNS with 4-character suffix	C ID 1/2
N104	67	Identification Code Code identifying a party. Recommended by PIDX	C ID 2/17

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
Notes: Used when HL03 equals "S", Shipment

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

FINAL

Segment: **N3** Address Information
Level: Detail
Loop: HL/N1
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Notes: Used when HL03 equals "S", Shipment

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

FINAL

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: **Used when HL03 equals "S", Shipment**

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. Not Used by PIDX	O ID 1/2
N406	310	Location Identifier Code which identifies a specific location. Not Used by PIDX	C AN 1/25

Segment: **REF** Reference Numbers
Level: Detail
Loop: HL/N1
Usage: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax: 1 Either REF02 or REF03 is required.
Notes: **Not Commonly Used by PIDX**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Recommended by PIDX	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content. Not Used by PIDX	C AN 1/80

Segment: **PER** Administrative Communications Contact
Level: Detail
Loop: HL/N1
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax: 1 If PER03 is present, then PER04 is required.
Notes: **Used when HL03 equals "S", Shipment**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named.	M ID 2/2
PER02	93	Name Free-form name.	O AN 1/35
PER03	365	Communication Number Qualifier Code identifying the type of communication number. Recommended by PIDX	O ID 2/2
PER04	364	Communication Number Complete communications number including country or area code when applicable. Recommended by PIDX	C AN 7/21

Segment: **FOB** F.O.B. Related Instructions
Level: Detail
Loop: HL/N1
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax: 1 If FOB03 is present, then FOB02 is required.
2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.
4 If FOB08 is present, then FOB09 is required.
Comments: A FOB01 indicates which party will pay the carrier.
B FOB02 is the code specifying transportation responsibility location.
C FOB06 is the code specifying title passage location.
D FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.
Notes: **Not Commonly Used by PIDX**
Used when HL03 equals "S", Shipment

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges.	M ID 2/2
FOB02	309	Location Qualifier Code identifying type of location.	C ID 1/2
FOB03	352	Description A free-form description to clarify the related data elements and their content.	O AN 1/80
FOB04	334	Transportation Terms Qualifier Code Code identifying the source of the transportation terms.	O ID 2/2
FOB05	335	Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility.	C ID 3/3
FOB06	309	Location Qualifier Code identifying type of location. Recommended by PIDX	C ID 1/2
FOB07	352	Description A free-form description to clarify the related data elements and their content. Recommended by PIDX	O AN 1/80
FOB08	54	Risk of Loss Qualifier Code specifying where responsibility for risk of loss passes. Recommended by PIDX	O ID 2/2
FOB09	352	Description A free-form description to clarify the related data elements and their content. Recommended by PIDX	C AN 1/80

Segment: **SDQ** Destination Quantity
Level: Detail
Loop: HL
Usage: Optional
Max Use: 50
Purpose: To specify destination and quantity detail.
Syntax: 1 If SDQ05 is present, then SDQ06 must be present.
 2 If SDQ07 is present, then SDQ08 must be present.
 3 If SDQ09 is present, then SDQ10 must be present.
 4 If SDQ11 is present, then SDQ12 must be present.
 5 If SDQ13 is present, then SDQ14 must be present.
 6 If SDQ15 is present, then SDQ16 must be present.
 7 If SDQ17 is present, then SDQ18 must be present.
 8 If SDQ19 is present, then SDQ20 must be present.
 9 If SDQ21 is present, then SDQ22 must be present.

Comments: A SDQ02 is used only if different than previously defined in the transaction set.

Notes: Not Commonly Used by PIDX

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SDQ01	355	Unit of Measurement Code Code identifying the basic unit of measurement.	M ID 2/2
SDQ02	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	O ID 1/2
SDQ03	67	Identification Code Code identifying a party.	M ID 2/17
SDQ04	380	Quantity Numeric value of quantity.	M R 1/10
SDQ05	67	Identification Code Code identifying a party.	O ID 2/17
SDQ06	380	Quantity Numeric value of quantity.	C R 1/10
SDQ07	67	Identification Code Code identifying a party.	O ID 2/17
SDQ08	380	Quantity Numeric value of quantity.	C R 1/10
SDQ09	67	Identification Code Code identifying a party.	O ID 2/17
SDQ10	380	Quantity Numeric value of quantity.	C R 1/10
SDQ11	67	Identification Code Code identifying a party.	O ID 2/17
SDQ12	380	Quantity Numeric value of quantity.	C R 1/10

SDQ13	67	Identification Code Code identifying a party.	O ID 2/17
SDQ14	380	Quantity Numeric value of quantity.	C R 1/10
SDQ15	67	Identification Code Code identifying a party.	O ID 2/17
SDQ16	380	Quantity Numeric value of quantity.	C R 1/10
SDQ17	67	Identification Code Code identifying a party.	O ID 2/17
SDQ18	380	Quantity Numeric value of quantity.	C R 1/10
SDQ19	67	Identification Code Code identifying a party.	O ID 2/17
SDQ20	380	Quantity Numeric value of quantity.	C R 1/10
SDQ21	67	Identification Code Code identifying a party.	O ID 2/17
SDQ22	380	Quantity Numeric value of quantity.	C R 1/10

Segment: **ETD** Excess Transportation Detail
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To specify information relating to premium transportation.
Syntax: 1 If either ETD03 or ETD04 is present, then the other is required.
Comments: A The value given in ETD03 qualifies the authorization number given in EDT04.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ETD01	626	Excess Transportation Reason Code Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation.	M ID 1/2
ETD02	627	Excess Transportation Responsibility Code Code identifying the organization responsible for paying the premium transportation costs.	M ID 1/1
ETD03	128	Reference Number Qualifier Code qualifying the Reference Number.	O ID 2/2
Not Used by PIDX			
ETD04	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
Not Used by PIDX			
ETD05	743	Returnable Container Freight Payment Responsibility Code Code specifying the responsibility for the return freight costs incurred when returnable containers are shipped in a premium transportation.	O ID 1/2

Segment: **CUR** Currency
Level: Detail
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax: 1 If CUR08 is present, then CUR07 is required.
2 If CUR09 is present, then CUR07 is required.
3 If CUR11 is present, then CUR10 is required.
4 If CUR12 is present, then CUR10 is required.
5 If CUR14 is present, then CUR13 is required.
6 If CUR15 is present, then CUR13 is required.
7 If CUR17 is present, then CUR16 is required.
8 If CUR18 is present, then CUR16 is required.
9 If CUR20 is present, then CUR19 is required.
10 If CUR21 is present, then CUR19 is required.

Comments: A Monetary values are assumed to be expressed in the currency of the country of the transaction originator unless the optional CUR segment is used to specify a different currency. The CUR segment also permits the transaction originator to indicate a specific exchange rate, foreign exchange location and date/time as the basis for a currency conversion. Example 1. Assuming the currency of the transaction originator is U.S. dollars, the following CUR segment, when used in the heading area of a transaction, would indicate that all monetary values appearing in the transaction are expressed in Canadian Dollars (CAD). (In this example the exchange rate is at the discretion of the receiver).

CUR*BY*CAD* N/L

Example 2. Assuming the currency of the transaction originator is U.S. dollars, the following CUR segment, when used in the detail area of a transaction, describes a currency conversion for that particular item from U.S. dollars to Canadian dollars. It also indicates that a specific exchange rate, at a specified foreign exchange location on a given date/time be used as the basis for the currency conversion. Notes below the diagram describe the meaning of the element values.

B CUR*BY*USD*1.20*SE*CAD*NY*007*840821*1400 N/L
 1 2 3 4

1. Identifies the buyer's (BY) currency as U.S. dollars (USD).
2. The multiplier (1.20) is the exchange rate factor for the conversion.
3. Identifies the seller's (SE) currency as Canadian dollars (CAD).
4. Indicates the basis for the exchange rate as the New York Foreign Exchange (NY) and the effective date/time (007) as August 21, 1984 (840821) at 2:00 P.M. (1400). The value for this item is to be converted to Canadian dollars (CAD) at the exchange rate of 1.20, based on the New York Foreign Exchange (NY) at 2:00 P.M. (1400) on August 21, 1984. The actual unit price conversion for the item would be: The unit price value 7.50 (U.S. dollars) multiplied by the exchange rate (1.20) equals 9.00 Canadian dollars (7.50 X 1.20 = 9.00) CUR07 through CUR21 provide for five (5) dates/times relating to the currency conversion, i.e., effective date, expiration date, etc.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CUR01	98	Entity Identifier Code	M ID 2/2 Code identifying an organizational entity or a physical location.
CUR02	100	Currency Code	M ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified.
CUR03	280	Exchange Rate	O R 4/6 Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.
CUR04	98	Entity Identifier Code	O ID 2/2 Code identifying an organizational entity or a physical location.
CUR05	100	Currency Code	O ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified.
CUR06	669	Currency Market/Exchange Code	O ID 3/3 Code identifying the market upon which the currency exchange rate is based.
CUR07	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR08	373	Date	O DT 6/6 Date (YYMMDD).
CUR09	337	Time	O TM 4/4 Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).
CUR10	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR11	373	Date	O DT 6/6 Date (YYMMDD).
CUR12	337	Time	O TM 4/4 Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).
CUR13	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR14	373	Date	O DT 6/6 Date (YYMMDD).
CUR15	337	Time	O TM 4/4 Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).

CUR16	374	Date/Time Qualifier	C ID 3/3
		Code specifying type of date or time, or both date and time.	
CUR17	373	Date	O DT 6/6
		Date (YYMMDD).	
CUR18	337	Time	O TM 4/4
		Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	
CUR19	374	Date/Time Qualifier	C ID 3/3
		Code specifying type of date or time, or both date and time.	
CUR20	373	Date	O DT 6/6
		Date (YYMMDD).	
CUR21	337	Time	O TM 4/4
		Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	

Segment: **ITA** Allowance, Charge or Service
Level: Detail
Loop: HL
Usage: Optional
Max Use: 10
Purpose: To specify allowances, charges or services
Syntax: 1 If ITA02 is present, then at least one of ITA03, or ITA13 is required.
 2 If ITA08 is present, then ITA09 is required.
 3 If ITA10 is present, then ITA11 is required.
Comments: A If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
 B If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
 C ITA12 is the quantity of free goods.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES	
ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified.	M	ID 1/1
ITA02	559	Association Qualifier Code Code identifying the association assigning the code values.	O	ID 2/2
ITA03	560	Special Services Code Code identifying the special service.	C	ID 2/10
ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge.	M	ID 2/2
ITA05	341	Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge.	O	AN 1/16
ITA06	359	Allowance or Charge Rate Allowance or Charge Rate per Unit.	O	R 1/9
ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge.	O	N2 1/9
ITA08	378	Allowance/ Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated.	O	ID 1/1
ITA09	332	Allowance or Charge Percent Allowance or charge expressed as a percent.	C	R 1/6
ITA10	339	Allowance or Charge Quantity Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.	O	R 1/10
ITA11	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C	ID 2/2
ITA12	380	Quantity Numeric value of quantity.	O	R 1/10
ITA13	352	Description A free-form description to clarify the related data elements and their content.	C	AN 1/80
ITA14	150	Special Charge Code Code identifying type of special charge.	O	ID 3/3

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
CTT02	347	Hash Total Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the leftmost digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O	R 1/10
Not Used by PIDX				
CTT03	81	Weight Numeric value of weight.	O	R 1/8
Not Used by PIDX				
CTT04	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C	ID 2/2
Not Used by PIDX				
CTT05	183	Volume Value of volumetric measure.	O	R 1/8
Not Used by PIDX				
CTT06	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C	ID 2/2
Not Used by PIDX				
CTT07	352	Description A free-form description to clarify the related data elements and their content.	O	AN 1/80
Not Used by PIDX				

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 NO 1/6
SE02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9

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