Rack Room Shoes

Electronic Data Interchange

856 – Ship Notice/Manifest
(Version - 4010)

February 2005

Purpose

This document provides detailed guidelines and conventions for implementing electronic Advance Ship Notices (ASNs) with:

1. Rack Room Shoes
2. Off Broadway Shoes

Our trading partners must comply with these guidelines for all shipments. Our 856 Ship Notice/Manifest, as detailed in this document, will provide you with all of the information necessary to provide the ASN.

These guidelines comply with published ASC X12 standards for EDI version 4010 for all data elements and segments.

Mandatory segments and elements are always required on every document. Optional segments and elements that are required by Rack Room Shoes are marked as "Must Use". Segment usage is marked at the top of each page under Usage. Element usage is marked in the far-left column beside each element. If the column is blank, the element is optional. Information in the Attributes column is from the ASC X12 standards and is provided for reference only. Trading Partners must adhere to our requirements as indicated by "Must Use".

Contacts

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Communication IDs

Rack Room Shoes

Production

ISA: 08/6143697777
GS: 6143697777

Test

ISA: 08/6143697777 (Please use "T" in ISA_15)
GS: 6143697777

VAN: E-Com Systems Inc

Note:
For our partners using the IBM network, E-Com's Interconnect information on the IBM VAN is VANS/ESMAIL.

For our partners using the global table you only need to use our S/R ID: 08/6143697777

Off Broadway Shoes

Production

ISA: 08/6143692222
GS: 6143692222

Test

ISA: 08/6143692222 (Please use "T" in ISA_15)
GS: 6143692222

VAN: E-Com Systems Inc

Note:
For our partners using the IBM network, E-Com's Interconnect information on the IBM VAN is VANS/ESMAIL.

For our partners using the global table you only need to use our S/R ID: 08/6143692222

Delimiters

Element Separator - "*"
(HEX "2A" in ASCII)   (HEX "5C" in EBCDIC)

Component (Sub Element) Separator - ">"
(HEX "3E" in ASCII)   (HEX "6E" in EBCDIC)

Segment Terminator - "~"
(HEX "7E" in ASCII)   (HEX "A1" in EBCDIC)

856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

Page No	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
6	010	ST	Transaction Set Header	M	1		
7	020	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

Page No	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL (Shipment level)			200000	
8	010	HL	Hierarchical Level	M	1		c1
9	110	TD1	Carrier Details (Quantity and Weight)	O	20		
10	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
11	150	REF	Reference Identification	O	>1		
12	200	DTM	Date/Time Reference	O	10		
14	210	FOB	FOB Related Instructions	O	1		
			LOOP ID - N1			200	
15	220	N1	Name	O	1		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL (Unit Load level)			200000	
17	010	HL	Hierarchical Level	O	1		
22	030	MAN	Marks and Numbers	O	>1		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL (Order level)			200000	
21	010	HL	Hierarchical Level	M	1		
18	050	PRF	Purchase Order Reference	O	1		
20	110	TD1	Carrier Details (Quantity and Weight)	O	20		
			LOOP ID - N1			200	
16	220	N1	Name	O	1		

Page No	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL (Pack level)			200000	
25	010	HL	Hierarchical Level	M	1		
23	020	LIN	Item identification	O	>1		
24	030	SN1	M Item Detail	M	1		
22	190	MAN	Marks and Numbers	O	>1		

Page No	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL (Item level)			200000	
25	010	HL	Hierarchical Level	M	1		
26	020	LIN	Item Identification	O	1		
27	030	SN1	Item Detail (Shipment)	O	1		
18	050	PRF	Purchase order Reference	O	1		
28	060	PO4	Item physical details	O	1		
20	110	TD1	Carrier details	O	1		

Summary:

Page No	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
29	010	CTT	Transaction Totals	M	1		
30	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

C1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Segment:	## ST **Transaction Set Header**	
Position:	010	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the start of a transaction set and to assign a control number	
Syntax Notes:		
Semantic Notes:	1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).	
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
			856 Ship Notice/Manifest	
Must Use	ST02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.	

Segment:		**BSN** Beginning Segment for Ship Notice	
Position:		020	
Loop:			
Level:		Heading	
Usage:		Mandatory	
Max Use:		1	
Purpose:		To transmit identifying numbers, dates, and other basic data relating to the transaction set	
Syntax Notes:	**1**	If BSN07 is present, then BSN06 is required.	
Semantic Notes:	**1**	BSN03 is the date the shipment transaction set is created.	
	2	BSN04 is the time the shipment transaction set is created.	
	3	BSN06 is limited to shipment related codes.	
Comments:	**1**	BSN06 and BSN07 differentiate the functionality of use for the transaction set.	
VICS Notes:		In some implementations, it may be appropriate to omit the unit load level and packaging levels, i.e., tare and pack, from the transaction set. Depending on the retailer's receiving systems, carton identification may not be required. Code 0004 in BSN05 indicates the use of a hierarchical structure that does not include a unit load level or any packaging levels.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BSN01**	**353**	**Transaction Set Purpose Code**	**M** **ID 2/2**
			Code identifying purpose of transaction set	
			00 Original	
Must Use	**BSN02**	**396**	**Shipment Identification**	**M** **AN 2/30**
			A unique control number assigned by the original shipper to identify a specific shipment	
			Sequentially assigned shipment number	
Must Use	**BSN03**	**373**	**Date**	**M** **DT 8/8**
			Date expressed as CCYYMMDD	
Must Use	**BSN04**	**337**	**Time**	**M** **TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Must Use	**BSN05**	**1005**	**Hierarchical Structure Code**	**O** **ID 4/4**
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	
			0001 Shipment, Order, Packaging, Item	
			Pick and Pack Structure	

Segment: # HL Hierarchical Level
Position: 010
Loop: HL   Mandatory
Level: Detail -- Shipment
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

1   The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.

2   HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3   HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4   HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

VICS Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	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		
			The value for this level (shipment) is 1		
	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
Must Use	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			S Shipment		

Segment:	**TD1** Carrier Details (Quantity and Weight)

Position: 110
Loop: HL   Mandatory
Level: Detail - Shipment
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1. If TD101 is present, then TD102 is required.
2. If TD103 is present, then TD104 is required.
3. If TD106 is present, then TD107 is required.
4. If either TD107 or TD108 is present, then the other is required.

Semantic Notes:
Comments:
VICS Notes: This segment, at the shipment level, is used to specify total containers and gross weight of the shipment.

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
TD101	**103**	**Packaging Code**	**O**	**AN 3/5**

Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required
    CTN   Container
    25   Corrugated or Solid

TD102	**80**	**Lading Quantity**	**X**	**N0 1/7**

Number of units (pieces) of the lading commodity

The number of packages in the shipment as described in TD101
Number of cartons in shipment

TD106	**187**	**Weight Qualifier**	**O**	**ID 1/2**

Code defining the type of weight
    G   Gross Weight

TD107	**81**	**Weight**	**X**	**R 1/10**

Numeric value of weight

Total weight of shipment

TD108	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
See Section III for code list.
    LB   Pound

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

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

Position: 120
Loop: HL   Mandatory
Level: Detail - Shipment
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: **1**   At least one of TD502 TD504 TD505 TD506 or TD512 is required.
              2   If TD502 is present, then TD503 is required.

Semantic Notes: **1**   TD515 is the country where the service is to be performed.
Comments: **1**   When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence.

<center>Data Element Summary</center>

Ref. Des.	Data Element	Name	Attributes	
TD501	**133**	**Routing Sequence Code**	**O**	**ID 1/2**
		Code describing the relationship of a carrier to a specific shipment movement		
		O Origin Carrier (Air, Motor, or Ocean)		
TD502	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
		Code designating the system/method of code structure used for Identification Code (67)		
		91 Assigned by Seller or Seller's Agent		
TD503	**67**	**Identification Code**	**X**	**AN 2/80**
		Code identifying a party or other code		
TD504	**91**	**Transportation Method/Type Code**	**O**	**ID 1/2**
		M Motor (Common Carrier)		
		VL Vessel		
		TR Trailer		
		Code specifying the method or type of transportation for the shipment		
TD505	**387**	**Routing**	**X**	**AN 1/35**
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity		
		Carrier name		
TD507	**309**	**Location Qualifier**	**O**	**ID 1/2**
		PB Port of Discharge		
		PA Port of Arrival		
		PE Port of Entry		
		Code identifying type of location.		
TD508	**310**	**Location Identifier**	**C**	**AN 1/30**
		Code which identifies a specific location. See External Code Source 54 in Section III for reference document.		

Segment: **REF** Reference Identification

Position: 150
Loop: HL   Mandatory
Level: Detail - Shipment
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
    2 If either C04003 or C04004 is present, then the other is required.
    3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
VICS Notes: In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated Master Bill of Lading Number will facilitate tracking.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**		M	ID 2/3
			Code qualifying the Reference Identification			
			BM	Bill of Lading Number		
			CN	Carrier's Reference Number (PRO/Invoice)		
Must Use	REF02	127	**Reference Identification**		X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Bill of Lading Number or Pro Number			

Segment: **DTM** Date/Time Reference
Position: 200
Loop: HL   Mandatory
Level: Detail - Shipment
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1   At least one of DTM02 DTM03 or DTM05 is required.
                   2   If DTM04 is present, then DTM03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			011 Shipped		
Must Use	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		

Segment:	**DTM** Date/Time Reference
Position:	200
Loop:	HL Mandatory
Level:	Detail - Shipment
Usage:	Optional (Must Use)
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.

Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			017 Estimated Delivery		
Must Use	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		

Segment:	**FOB** Related Instructions	
Position:	210	
Loop:	HL	
Level:	Detail - Shipment	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify transportation instructions relating to shipment	
Syntax Notes:	**1** C0302.	
	2 C0405	
	3 C0706	
	4 C0809	

Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
FOB03	**352**	**Description**	**O** **AN 1/80**
		A free-form name of transportation responsibility location	
		Port of Origin	
FOB07	**352**	**Description**	**O** **AN 1/80**
		A free-form name of transportation responsibility location	
		Port of Entry	

Segment:	**N1** Name		
Position:	220		
Loop:	N1 Optional		
Level:	Detail - Shipment		
Usage:	Optional (Must Use)		
Max Use:	1		
Purpose:	To identify a party by type of organization, name, and code		
Syntax Notes:	1 At least one of N102 or N103 is required.		
	2 If either N103 or N104 is present, then the other is required.		
Semantic Notes:			
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.		
Notes:	Sender will use 92 and the Ship To location provided on the Retailers purchase order.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual ST Ship To	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name	**X AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code *Code for Ship To Location- At shipment level this should be "70"*	**X AN 2/80**

Segment:	**N1** Name		
Position:	220		
Loop:	N1 Optional		
Level:	Detail - Shipment		
Usage:	Optional (Must Use)		
Max Use:	1		
Purpose:	To identify a party by type of organization, name, and code		
Syntax Notes:	1 At least one of N102 or N103 is required.		
	2 If either N103 or N104 is present, then the other is required.		
Semantic Notes:			
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.		

Sender will use 92 and the Ship To location provided on the Retailers purchase order.

Notes:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual	
			SF Ship from	
Must Use	**N102**	**93**	**Name**	**X AN 1/60**
			Vendor name	
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)	
			91 Assigned by seller	
Must Use	**N104**	**67**	**Identification Code**	**X AN 2/80**
			Code identifying a party or other code	
			Code for Ship To Location	

Segment:		**HL** Hierarchical Level			
Position:		010			
Loop:		HL	Mandatory		
Level:		Detail -- Order			
Usage:		Mandatory			
Max Use:		1			
Purpose:		To identify dependencies among and the content of hierarchically related groups of data segments			
Syntax Notes:					
Semantic Notes:					
Comments:	**1**	The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.			
	2	HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.			
	3	HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.			
	4	HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.			

VICS Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	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		
			Increments for each order		
Must Use	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
Must Use	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			O Order		

Segment:	**PRF** Purchase Order Reference			
Position:	050			
Loop:	HL Mandatory			
Level:	Detail - Order			
Usage:	Optional (Must Use)			
Max Use:	1			
Purpose:	To provide reference to a specific purchase order			
Syntax Notes:				
Semantic Notes:	**1** PRF04 is the date assigned by the purchaser to purchase order.			
Comments:				
VICS Notes:	PRF is the retailer's original purchase order number			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PRF01**	**324**	**Purchase Order Number**	**M AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser	
			PRF01 is the Retailer's original purchase order number	

Segment:	**N1** Name
Position:	220
Loop:	N1 Optional
Level:	Detail - Order
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required.
	2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			BY Buying Party (Purchaser)		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
Must Use	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
Must Use	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Buying party code.		

Segment:	**TD1** Carrier Details (Quantity and Weight)
Position:	110
Loop:	HL Mandatory
Level:	Detail - Order
Usage:	Optional
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:	**1** If TD101 is present, then TD102 is required.
	2 If TD103 is present, then TD104 is required.
	3 If TD106 is present, then TD107 is required.
	4 If either TD107 or TD108 is present, then the other is required.

Semantic Notes:	
Comments:	
VICS Notes:	This segment, at the shipment level, is used to specify total containers and gross weight of the shipment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD101	**103**	**Packaging Code**	**O AN 3/5**
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
		CTN Container	
		25 Corrugated or Solid	
TD102	**80**	**Lading Quantity**	**X N0 1/7**
		Number of units (pieces) of the lading commodity	
		The number of packages in the shipment as described in TD101 *Number of cartons in shipment*	
TD106	**187**	**Weight Qualifier**	**O ID 1/2**
		Code defining the type of weight	
		G Gross Weight	
TD107	**81**	**Weight**	**X R 1/10**
		Numeric value of weight	
		Total weight of shipment	
TD108	**355**	**Unit or Basis for Measurement Code**	**X ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		See Section III for code list.	
		LB Pound	

Segment:		**HL** Hierarchical Level			
Position:		010			
Loop:		HL	Mandatory		
Level:		Detail -- Pack			
Usage:		Mandatory			
Max Use:		1			
Purpose:		To identify dependencies among and the content of hierarchically related groups of data segments			

Syntax Notes:
Semantic Notes:
Comments:

1   The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.

2   HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3   HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4   HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

VICS Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	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		
			Increment for each carton		
	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
Must Use	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			P Pack		

Segment:	# MAN Marks and Numbers				

Segment: MAN Marks and Numbers
Position: 190
Loop: HL   Mandatory
Level: Detail - Pack
Usage: Optional (Must Use)
Max Use: >1
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
Semantic Notes:
Comments:
VICS Notes: When the shipping container is the same as the consumer unit, the U.P.C. may be the only UCC identification code on the container. In many applications, it is necessary to positively identify what identification code is to be scanned and matched at point of receipt. Since the U.P.C. is not a unique serial shipping container code, only one pack level for each item is required when using the pick and pack structure. The total number of shipping units for this item is the same as the quantity for the item in the SN1 segment at the item level.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	MAN01	88	**Marks and Numbers Qualifier**	**M**	**ID ½**
			Code specifying the application or source of Marks and Numbers (87)		
			GM SSCC-18 and Application Identifier		
			This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included.		
Must Use	MAN02	87	**Marks and Numbers**	**M**	**AN 1/48**
			Marks and numbers used to identify a shipment or parts of a shipment		
			UCC 128 Code		
	MAN03	87	**Marks and Numbers**		
			Marks and numbers used to identify a shipment or parts of a shipment. Will be used to mark the ending no of a sequential range	**O**	**AN 1/48**

	Segment:	**LIN** Item Identification

Level:	Detail -Pack
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	.
Semantic Notes:	**1** LIN01 is the line item identification
Comments:	
VICS Notes:	The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment. See Section III for complete U.P.C. and EAN code definitions.

Ref.	Data Des.	Element	Name	Attributes
	LIN01	**350**	**Assigned Identification**	**O AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	**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)	
			UA UPC/EAN case code	
Must Use	**LIN03**	**234**	**Product/Service ID**	**M AN 1/48**
			Identifying number for a product or service	

Segment: **SN1** Item Detail (Shipment)
Position: 030
Loop: HL   Mandatory
Level: Detail - Pack
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes:
Semantic Notes: **1** SN101 is the ship notice line-item identification.
Comments: **1** SN103 defines the unit of measurement for both SN102 and SN104.
VICS Notes: Please see VICs notes on usage

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	SN101	350	Assigned Identification	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
			*Not used ***		
Must Use	SN102	382	Number of Units Shipped	M	R 1/10
Must Use	SN103	355	Unit or Basis of Measurement Code	M	ID 2/2

Segment: # HL **Hierarchical Level**

Position:	010
Loop:	HL Mandatory
Level:	Detail -- Item
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:	
Semantic Notes:	

Comments:

1   The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.

2   HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3   HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4   HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

VICS Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	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		
			Increments for each item		
Must Use	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
			Pack (carton) level		
Must Use	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			I Item		

Segment:	**LIN** Item Identification			
Position:	020			
Loop:	HL Mandatory			
Level:	Detail - Item			
Usage:	Optional (Must Use)			
Max Use:	1			
Purpose:	To specify basic item identification data			
Syntax Notes:	.			
Semantic Notes:	1 LIN01 is the line item identification			
Comments:				
VICS Notes:	The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.			
	See Section III for complete U.P.C. and EAN code definitions.			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
Must Use	**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)		

<div style="padding-left:4em">

SZ   Vendor Alphanumeric Size Code (NRMA)

UP   U.P.C. Consumer Package Code (1-5-5-1)

VE   Vendor Color

</div>

Must Use	**LIN03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Identifying number for a product or service		

Segment:	**SN1** Item Detail (Item)	
Position:	030	
Loop:	HL Mandatory	
Level:	Detail - Item	
Usage:	Optional (Must Use)	
Max Use:	1	
Purpose:	To specify line-item detail relative to shipment	
Syntax Notes:		
Semantic Notes:	**1** SN101 is the ship notice line-item identification.	
Comments:	**1** SN103 defines the unit of measurement for both SN102 and SN104.	
VICS Notes:	This segment is used to specify the quantities associated with the item identified in the LIN at the item level.	

This segment is used to specify the quantities associated with the item identified in the LIN at the item level.

When specifying an item, which is comprised of two or more components that are in unique shipping containers, SN103 will contain code ST for set and the quantity specified in SN102 is the number of sets as identified in the LIN segment. Each different component is identified in one pack level. See the VICS Note, on the SLN segment, at the pack level.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	SN101	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			Not used by *******		
Must Use	**SN102**	**382**	**Number of Units Shipped**	**M**	**R 1/10**
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
			Quantity shipped		
Must Use	**SN103**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			See Section III for code list.		
			EA	Each	

Segment: **PO4** Item Detail (Item)

Level:	Detail - Item
Usage:	Optional
Max Use:	1
Purpose:	To provide packaging information

	Ref. Des.	Data Element	Name	Attributes
	PO401	**324**	**Number of inner packs**	**O NO 1/6**
	PO402	**357**	**Size of supplier unit in pack** ***	**C R 1/8**
Must Use	**PO403**	**355**	**Unit or basis for measurement of vode**	**C ID 2/2**

Segment: # CTT Transaction Totals

Position:	010
Loop:	
Level:	Detail - Item
Usage:	Optional
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Syntax Notes:	1 If either CTT03 or CTT04 is present, then the other is required.
	2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	CTT01	354	**Number of Line Items**	M	N0 1/6
			Total number of line items in the transaction set		
			The number of HL segments present in the transaction set		

Segment:	**SE** Transaction Set Trailer		
Position:	020		
Loop:			
Level:			
Usage:	Mandatory		
Max Use:	1		
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)		
Syntax Notes:			
Semantic Notes:			
Comments:	1 SE is the last segment of each transaction set.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	**Number of Included Segments**	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			This must be the same number as is in the ST segment (ST02) for the transaction set.	

Example

Sample Ship Notice/Manifest Transaction

```
ISA*00*          *00*          *ZZ*09919TEST      *08*6143697777      *050201*2330*U*00401*000000337*0*P*:
GS*SH*09919TEST*6143697777*20050201*2330*337*X*004010
ST*856*0425
BSN*00*00000000029830763*20050201*2219*0001
HL*1**S
TD1*CTN25*76****G*871.66*LB
TD5****M*ROADWAY EXPRESS, INC
REF*BM*00000000029830763
REF*CN*ROADWAY EXPRESS, INC
DTM*011*20050201
DTM*017*20050120
N1*ST**92*70
N1*SF*ANY CORPORATION*91*10
HL*2*1*O
PRF*100241
TD1*CTN25*1
N1*BY**92*0025
HL*3*2*P
MAN*GM*00000442080197004601
HL*4*3*I
LIN**UP*044208829865
SN1**1*EA
HL*5*3*I
LIN**UP*044208829872
SN1**1*EA
HL*6*3*I
LIN**UP*044208829889
SN1**1*EA
.
.
.
HL*1474*1468*I
LIN**UP*044208065805
SN1**1*EA
CTT*1474
SE*4283*0426
GE*2*337
IEA*1*000000337
```