

856 Ship Notice/ Manifest

Introduction

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail Ship Notice/Manifest.

The use of this transaction is to provide the retailer with advance data on the shipments so the retailer may better plan workloads and receipt processing. The key word is “advance”. Therefore, in the implementation of the transaction the latest the ship notice may be sent is the time of shipment. In practice the ship notice must arrive before the shipment. The scope of the ship notice, within the retail industry, will not exceed the scope of the associated bill of lading. There can be more than one ship notice with one bill of lading. The bill of lading is not applicable when using small package service carriers. In this case, the ship notice will only represent one ship from/ship to combination.

The bill of lading is a legal shipping document which is the contract between the shipper and the carrier. The ship notice is not a legal document nor is it between shipper and carrier. The ship notice is not a replacement for the bill of lading. There are two predominant methods of merchandise packaging within the retail industry. These are commonly known as:

- **Pick and Pack** — where different SKUs are packed within the container, and
- **Standard Carton Pack** — where identical SKUs are packed within the container.

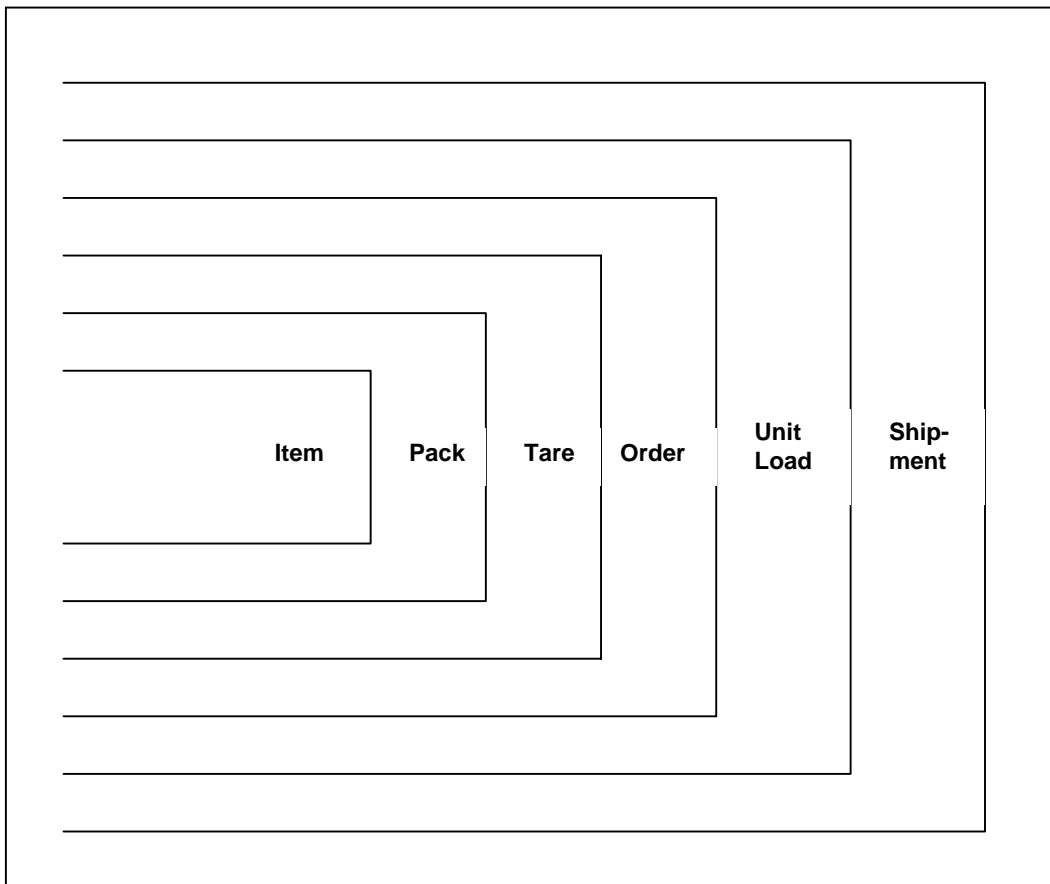
The retail industry has identified six hierarchical levels for use within the Ship Notice/Manifest transaction set. The following are the definitions of these levels:

<u>Name</u>	<u>Code</u>	<u>Description</u>
SHIPMENT	S	Data that applies to the whole shipment, such as bill of lading number, lading quantity, supplier code, etc.
UNIT LOAD	UT	The Unit load level is used to identify a physical shipping unit which is marked with a UCC/EAN serial shipping container code, and, consists of transport packages marked for multiple final destinations.
ORDER	O	Data related to the sender's order and the associated receiver's original purchase order.
TARE	T	The tare level is used to identify pallets. These pallets are being shipped to a single final destination. If there are no identifiable pallets, this level may be omitted.
PACK	P	The pack level is used to identify the cartons, racks, bags, etc., in which the item is shipped, e.g. label serial numbers. In most cases there will be some sort of packs.
ITEM	I	SKU identification data. If identical SKUs are packed using unidentifiable inner packs, i.e. four six-packs to a case, this can be related at this

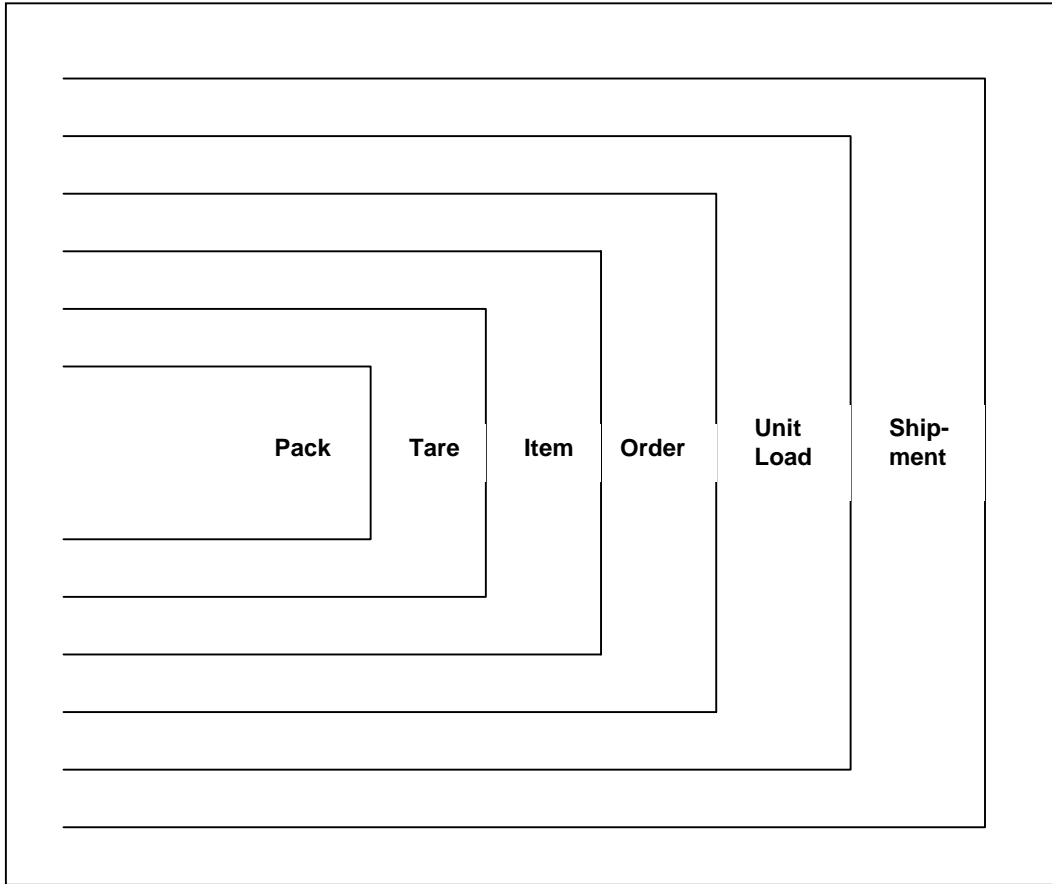
level.

The retail industry implementation of the Ship Notice/Manifest transaction set supports both methods of merchandise shipment packaging with two distinct hierarchical structures. Each structure contains the same levels, i.e. Shipment, Unit Load, Order, Tare, Pack, and Item, and the usage of the segments within each level are the same. The only difference is the order in which the levels may appear within the transaction set. BSN05 informs the receiver, after reading the BSN segment, of the structure of the transaction set. The essential difference in the two structures is where the Item level appears.

The actual structure for the ship notice transaction set is determined by the sender of the transaction set. Realizing, as with any transaction, that the needs of all the receivers and the capabilities of the sender's systems must be balanced when determining the final format. The relationship of a physical shipment to the shipment level of the transaction set is not always one to one. Some senders may have the capability of sending only one ship notice for each ship from/ship to combination. Other implementations may send multiple transactions for one bill of lading. An example of this would be where the ship notice transaction represents a sender's order packing slip. Another variation of this is when a small package service carrier is used. The ship notice may have several cartons from one location with the same delivery location, however, from the package service carrier perspective, each carton is a shipment. It is important to recognize these conditions and not assume one ship notice, one physical shipment. For the Pick and Pack Structure, the Item is the lowest level, i.e., the specification of the SKU is always within the shipment container. The order of the hierarchical levels are Shipment, Unit Load, Order, Tare, Pack, and Item.



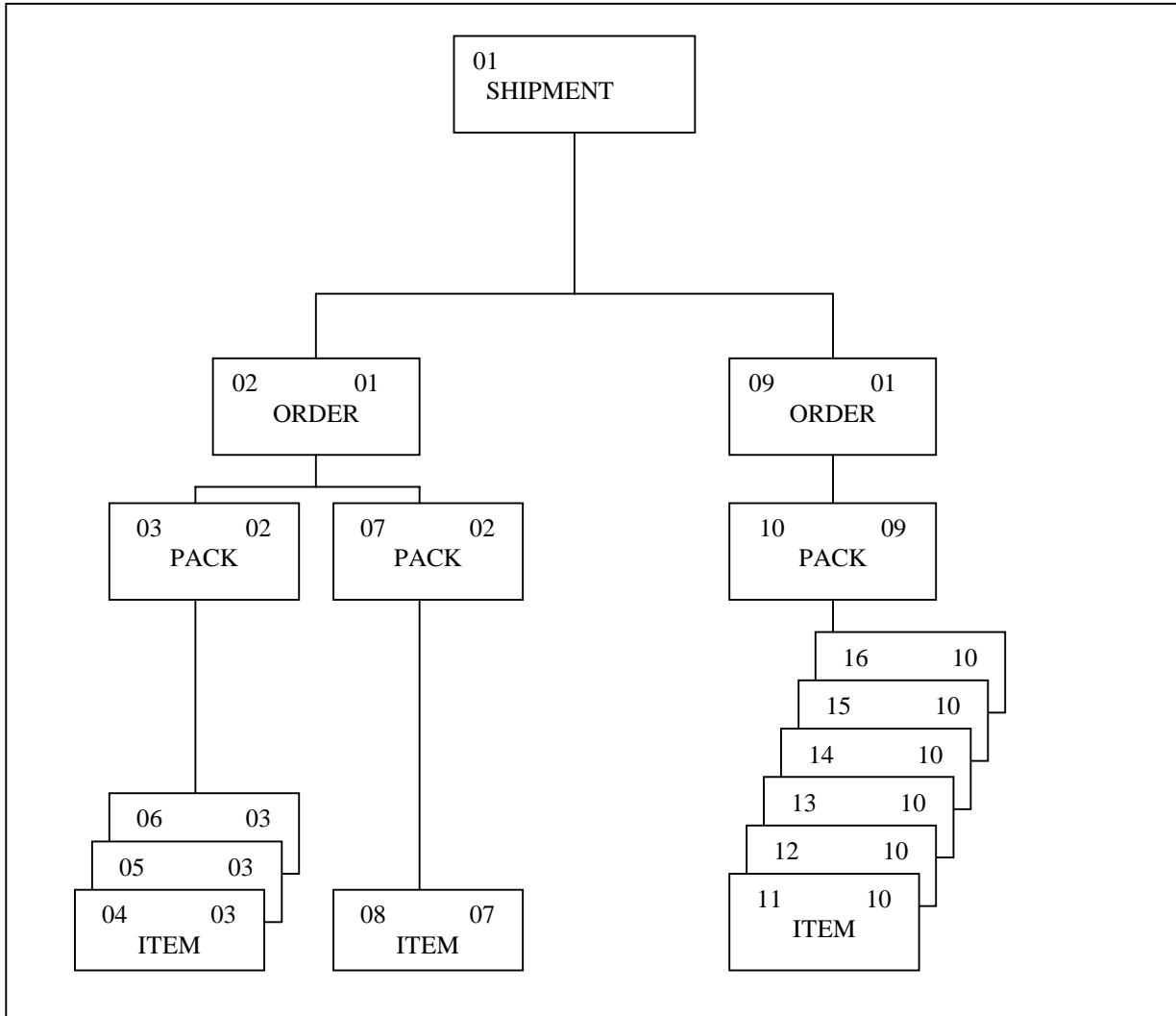
For the Standard Carton Pack Structure, the Item is between the Order level and the Tare level, i.e., the specification of the shipment containers is always within the SKU. The SKU is specified, then all of the shipping containers for the SKUs are identified. The order of the hierarchical levels are Shipment, Unit Load, Order, Item, Tare, and Pack.



The following are examples of both the Pick/Pack and the Standard Carton Pack hierarchical structures.

Pick and Pack Structure Example

In this Pick and Pack Structure example, the shipment contains two orders. The first order has two cartons. The first carton contains three items (SKUs), the second carton contains one SKU. The second order contains one carton with 6 SKUs in the carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).

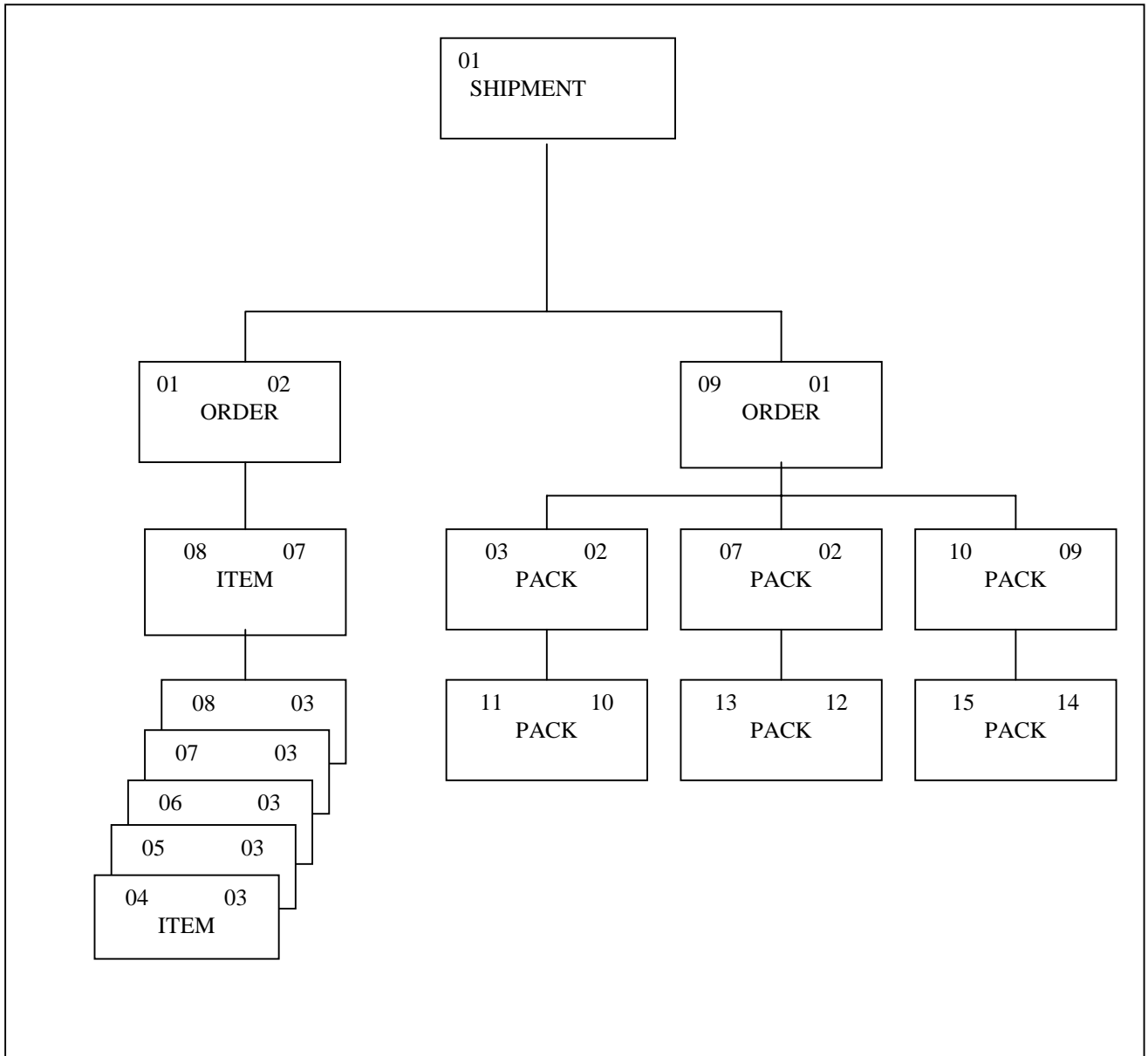


Standard Carton Pack Structure Example

In this example the shipment contains two orders.

The first order has five cartons. All cartons contain the same SKU.

The second order contains three cartons with a unique SKU in each carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).



Unit Load

In some implementations, the shipping arrangements agreed to between trading partners may require the supplier to “master” pack or palletize individual store orders. Within the context of VICS EDI, a Unit Load (UL), is defined as one or more transport packages held together by some means such as a pallet, slip sheet, container or carton, which contains multiple orders all shipped to the same point of first receipt. Transport packages within the unit load are destined for multiple final destinations. The “master” pack, or “unit load,” will be broken down at the distribution facility and the transport packages contained within will be redistributed to multiple final destinations. Typically the unit load will consist of transport packages which are marked for and cross-docked to individual retail stores.

The utilization of the Unit Load level in the Ship Notice/Manifest Transaction Set (856) is for the express purpose of identifying a unit load. Each unit load will be marked with the UCC/EAN-128 Serial Shipping Container Code. Typically the transport packages contained within the unit load will also be marked with a UCC/EAN-128 Serial Container Code. The marking on the unit load will be used to receive the contents of the unit load and to post the receipt to the retailer’s internal files; the marking at a lower packaging level is used to move the goods from the distribution facility to their appropriate final destinations.

The Unit Load level may be used in either the Pick and Pack or Standard Carton Pack structures. When present in the transaction, the Unit Load is immediately subordinate to the Shipment level. If a single shipment involves both a Unit Load and additional transport packages which are not part of the Unit Load, care must be taken to examine the hierarchical parent ID to ensure correct interpretation of the relationships within the shipment.

The Unit Load is designed to aid in shipment integrity and transportation efficiencies. The presence of the Unit Load level will identify to the receiver that additional handling may be needed. The Unit Load identifies a physical shipping unit, not a specific packaging type.

Shipments via Small Package Service Carrier

Unlike other motor carriers, small package service carriers do not use the bill of lading for a shipment. In fact, the term shipment takes on a different meaning when using small package service carriers. The common, traditional, meaning of a shipment, in the context of the retail industry, is a supplier sending one or more shipping containers or transport packages to a single retailer's destination. This shipment may be one or more supplier orders and one or more retailer's purchase orders, or partial purchase orders. The shipment is under one bill of lading. The shipment may be represented by one or more than one 856 transaction.



To a small package service carrier, each transport package is one shipment. Each package is assigned a unique identification number by the carrier to facilitate the movement through their system. A manifest may be used by the shipper to list each package, destination, and other details; a bill of lading is not created. These manifests may be created at the end of the day or for each ship from/destination, or for each supplier order processed and shipped. The 856 transaction set should be used in the same manner as the supplier would use when sending under motor or common carrier. The use of a small package service carrier would not change this.

When a small package service provider is used, it may be useful to provide the carrier's assigned number as well as the UCC/EAN-128 Carton ID. It is not required to send both, however, it should be seriously considered to aid in tracking. This is especially true in a consumer catalog service or any direct ship to consumer (customer of retailer) using a small package service. It is desirable for the retailer to know each carrier assigned carton ID to track the shipment if the customer reports the ordered and billed merchandise was never received.

The MAN (Marks and Numbers) segment is used to send both package ID numbers.

The TD5 segment at the shipment level will inform the receiver that a small package service provider is the carrier, by using the Standard Carrier Alpha Code (SCAC) and the Transportation Method/Type of Private Parcel Service.

Canadian Guideline Legend:

- >> >> in the left-hand margin indicates that the element must be used (mandatory).
The absence of a symbol in the left hand margin indicates that the element is optional
- X X in the left-hand margin indicates that this element is not used.
-  This symbol indicates that the element or code is only available for ECR applications or that the note is applicable to ECR.
- R_x This symbol indicates that the element or code is only available for ECRx applications or that the note is applicable to ECRx.
-  This symbol indicates that the element or code is only available for EFR applications or that the note is applicable to EFR.
- NOT USED BY CANADIAN INDUSTRY** This element is open to satisfy VICS notes and/or comments, but is not used in Canadian applications

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:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BSN	Beginning Segment for Ship Notice	M	1		
Not Used	040	DTM	Date/Time Reference	O	10		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
Must Use	010	HL	Hierarchical Level - Shipment	M	1		c1
Not Used	020	LIN	Item Identification	O	1		
Not Used	030	SN1	Item Detail (Shipment)	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
Not Used	050	PRF	Purchase Order Reference	O	1		
Not Used	060	PO4	Item Physical Details	O	1		
Not Used	070	PID	Product/Item Description	O	200		
Not Used	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
	110	TD1	Carrier Details (Quantity and Weight) - Shipment	O	20		
	120	TD5	Carrier Details (Routing Sequence/Transit Time) - Shipment	O	12		
	130	TD3	Carrier Details (Equipment) - Shipment	O	12		
	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	145	TSD	Trailer Shipment Details	O	1		
	150	REF	Reference Identification - Shipment	O	>1		
	151	PER	Administrative Communications Contact - Shipment	O	3		
			LOOP ID - LH1			100	
Not Used	152	LH1	Hazardous Identification Information	O	1		
Not Used	153	LH2	Hazardous Classification Information	O	4		
Not Used	154	LH3	Hazardous Material Shipping Name	O	12		

Not Used	155	LFH	Freeform Hazardous Material Information	O	20
Not Used	156	LEP	EPA Required Data	O	>1
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
LOOP ID - CLD					200
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Identification	O	200
Not Used	185	DTP	Date or Time or Period	O	1
Not Used	190	MAN	Marks and Numbers	O	>1
	200	DTM	Date/Time Reference - Shipment	O	10
Not Used	210	FOB	F.O.B. Related Instructions	O	1
Not Used	215	PAL	Pallet Information	O	1
LOOP ID - N1					200
	220	N1	Name - Shipment	O	1
	230	N2	Additional Name Information	O	2
	240	N3	Address Information	O	2
	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Identification	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
LOOP ID - SAC					>1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
LOOP ID - LM					10
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100
LOOP ID - V1					>1
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port or Terminal	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1

Detail:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL					200000	
Must Use	010	HL	Hierarchical Level - Unit Load	M	1	n1
Not Used	020	LIN	Item Identification	O	1	
Not Used	030	SN1	Item Detail (Shipment)	O	1	
Not Used	040	SLN	Subline Item Detail	O	1000	
Not Used	050	PRF	Purchase Order Reference	O	1	

Not Used	060	PO4	Item Physical Details	O	1
Not Used	070	PID	Product/Item Description	O	200
Not Used	080	MEA	Measurements	O	40
Not Used	090	PWK	Paperwork	O	25
Not Used	100	PKG	Marking, Packaging, Loading	O	25
Not Used	110	TD1	Carrier Details (Quantity and Weight)	O	20
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
	130	TD3	Carrier Details (Equipment) - Unit Load	O	12
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
Not Used	145	TSD	Trailer Shipment Details	O	1
Not Used	150	REF	Reference Identification	O	>1
Not Used	151	PER	Administrative Communications Contact	O	3
LOOP ID - LH1					100
Not Used	152	LH1	Hazardous Identification Information	O	1
Not Used	153	LH2	Hazardous Classification Information	O	4
Not Used	154	LH3	Hazardous Material Shipping Name	O	12
Not Used	155	LFH	Freeform Hazardous Material Information	O	20
Not Used	156	LEP	EPA Required Data	O	>1
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
LOOP ID - CLD					200
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Identification	O	200
Not Used	185	DTP	Date or Time or Period	O	1
	190	MAN	Marks and Numbers - Unit Load	O	>1
Not Used	200	DTM	Date/Time Reference	O	10
Not Used	210	FOB	F.O.B. Related Instructions	O	1
Not Used	215	PAL	Pallet Information	O	1
LOOP ID - N1					200
Not Used	220	N1	Name	O	1
Not Used	230	N2	Additional Name Information	O	2
Not Used	240	N3	Address Information	O	2
Not Used	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Identification	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
LOOP ID - SAC					>1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10

			LOOP ID - LM		10
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100
			LOOP ID - V1		>1
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port or Terminal	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
Must Use	010	HL	Hierarchical Level - Order	M	1		
Not Used	020	LIN	Item Identification	O	1		
Not Used	030	SN1	Item Detail (Shipment)	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
	050	PRF	Purchase Order Reference - Order	O	1		
Not Used	060	PO4	Item Physical Details	O	1		
Not Used	070	PID	Product/Item Description	O	200		
Not Used	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
	110	TD1	Carrier Details (Quantity and Weight) - Order	O	20		
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	130	TD3	Carrier Details (Equipment)	O	12		
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	145	TSD	Trailer Shipment Details	O	1		
V4050	150	REF	Reference Identification	O	>1		
Not Used	151	PER	Administrative Communications Contact	O	3		
			LOOP ID - LH1			100	
Not Used	152	LH1	Hazardous Identification Information	O	1		
Not Used	153	LH2	Hazardous Classification Information	O	4		
Not Used	154	LH3	Hazardous Material Shipping Name	O	12		
Not Used	155	LFH	Freeform Hazardous Material Information	O	20		
Not Used	156	LEP	EPA Required Data	O	>1		
Not Used	157	LH4	Canadian Dangerous Requirements	O	1		
Not Used	158	LHT	Transborder Hazardous Requirements	O	3		
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10		
Not Used	160	PER	Administrative Communications Contact	O	5		
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1		
			LOOP ID - CLD			200	
Not Used	170	CLD	Load Detail	O	1		
Not Used	180	REF	Reference Identification	O	200		
Not Used	185	DTP	Date or Time or Period	O	1		
Not Used	190	MAN	Marks and Numbers	O	>1		
Not Used	200	DTM	Date/Time Reference	O	10		
Not Used	210	FOB	F.O.B. Related Instructions	O	1		
Not Used	215	PAL	Pallet Information	O	1		

LOOP ID - N1			200
	220	N1	Name - Order O 1
	230	N2	Additional Name Information O 2
	240	N3	Address Information O 2
	250	N4	Geographic Location O 1
Not Used	260	REF	Reference Identification O 12
Not Used	270	PER	Administrative Communications Contact O 3
Not Used	280	FOB	F.O.B. Related Instructions O 1
Not Used	290	SDQ	Destination Quantity O 50
Not Used	300	ETD	Excess Transportation Detail O 1
Not Used	310	CUR	Currency O 1
LOOP ID - SAC			>1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information O 1
Not Used	325	CUR	Currency O 1
Not Used	330	GF	Furnished Goods and Services O 1
Not Used	335	YNQ	Yes/No Question O 10
LOOP ID - LM			10
Not Used	340	LM	Code Source Information O 1
Not Used	350	LQ	Industry Code M 100
LOOP ID - V1			>1
Not Used	360	V1	Vessel Identification O 1
Not Used	370	R4	Port or Terminal O >1
Not Used	380	DTM	Date/Time Reference O >1

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
LOOP ID - HL			200000			
Must Use	010	HL	Hierarchical Level - Tare	M	1	
Not Used	020	LIN	Item Identification	O	1	
Not Used	030	SN1	Item Detail (Shipment)	O	1	
Not Used	040	SLN	Subline Item Detail	O	1000	
Not Used	050	PRF	Purchase Order Reference	O	1	
Not Used	060	PO4	Item Physical Details	O	1	
Not Used	070	PID	Product/Item Description	O	200	
Not Used	080	MEA	Measurements	O	40	
Not Used	090	PWK	Paperwork	O	25	
Not Used	100	PKG	Marking, Packaging, Loading	O	25	
Not Used	110	TD1	Carrier Details (Quantity and Weight)	O	20	
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
Not Used	130	TD3	Carrier Details (Equipment)	O	12	
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
Not Used	145	TSD	Trailer Shipment Details	O	1	
Not Used	150	REF	Reference Identification	O	>1	
Not Used	151	PER	Administrative Communications Contact	O	3	
LOOP ID - LH1			100			
Not Used	152	LH1	Hazardous Identification Information	O	1	
Not Used	153	LH2	Hazardous Classification Information	O	4	

Not Used	154	LH3	Hazardous Material Shipping Name	O	12
Not Used	155	LFH	Freeform Hazardous Material Information	O	20
Not Used	156	LEP	EPA Required Data	O	>1
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
LOOP ID - CLD					200
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Identification	O	200
Not Used	185	DTP	Date or Time or Period	O	1
	190	MAN	Marks and Numbers - Tare	O	>1
Not Used	200	DTM	Date/Time Reference	O	10
Not Used	210	FOB	F.O.B. Related Instructions	O	1
	215	PAL	Pallet Information - Tare	O	1
LOOP ID - N1					200
Not Used	220	N1	Name	O	1
Not Used	230	N2	Additional Name Information	O	2
Not Used	240	N3	Address Information	O	2
Not Used	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Identification	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
LOOP ID - SAC					>1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
LOOP ID - LM					10
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100
LOOP ID - V1					>1
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port or Terminal	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1

Detail:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL						
Must Use	010	HL	Hierarchical Level - Pack	M	1	
	020	LIN	Item Identification - Pack	O	1	
	030	SN1	Item Detail (Shipment) - Pack	O	1	
Not Used	040	SLN	Subline Item Detail	O	1000	

Not Used	050	PRF	Purchase Order Reference	O	1
Not Used	060	PO4	Item Physical Details	O	1
Not Used	070	PID	Product/Item Description	O	200
Not Used	080	MEA	Measurements	O	40
Not Used	090	PWK	Paperwork	O	25
Not Used	100	PKG	Marking, Packaging, Loading	O	25
Not Used	110	TD1	Carrier Details (Quantity and Weight)	O	20
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
Not Used	130	TD3	Carrier Details (Equipment)	O	12
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
Not Used	145	TSD	Trailer Shipment Details	O	1
Not Used	150	REF	Reference Identification	O	>1
Not Used	151	PER	Administrative Communications Contact	O	3
LOOP ID - LH1					100
Not Used	152	LH1	Hazardous Identification Information	O	1
Not Used	153	LH2	Hazardous Classification Information	O	4
Not Used	154	LH3	Hazardous Material Shipping Name	O	12
Not Used	155	LFH	Freeform Hazardous Material Information	O	20
Not Used	156	LEP	EPA Required Data	O	>1
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
LOOP ID - CLD					200
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Identification	O	200
Not Used	185	DTP	Date or Time or Period	O	1
	190	MAN	Marks and Numbers - Pack	O	>1
Not Used	200	DTM	Date/Time Reference	O	10
Not Used	210	FOB	F.O.B. Related Instructions	O	1
Not Used	215	PAL	Pallet Information	O	1
LOOP ID - N1					200
Not Used	220	N1	Name	O	1
Not Used	230	N2	Additional Name Information	O	2
Not Used	240	N3	Address Information	O	2
Not Used	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Identification	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
LOOP ID - SAC					>1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1

Not Used	335	YNQ	Yes/No Question	O	10		
					LOOP ID - LM		10
Not Used	340	LM	Code Source Information	O	1		
Not Used	350	LQ	Industry Code	M	100		
					LOOP ID - V1		>1
Not Used	360	V1	Vessel Identification	O	1		
Not Used	370	R4	Port or Terminal	O	>1		
Not Used	380	DTM	Date/Time Reference	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
					LOOP ID - HL		200000
Must Use	010	HL	Hierarchical Level - Item	M	1		
	020	LIN	Item Identification - Item	O	1		
	030	SN1	Item Detail - Item	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
Not Used	050	PRF	Purchase Order Reference	O	1		
	060	PO4	Item Physical Details - Item	O	1		
	070	PID	Product/Item Description - Item	O	200		
Not Used	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
Not Used	110	TD1	Carrier Details (Quantity and Weight)	O	20		
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	130	TD3	Carrier Details (Equipment)	O	12		
	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	145	TSD	Trailer Shipment Details	O	1		
	150	REF	Reference Identification - Item	O	>1		
Not Used	151	PER	Administrative Communications Contact	O	3		
					LOOP ID - LH1		100
Not Used	152	LH1	Hazardous Identification Information	O	1		
Not Used	153	LH2	Hazardous Classification Information	O	4		
Not Used	154	LH3	Hazardous Material Shipping Name	O	12		
Not Used	155	LFH	Freeform Hazardous Material Information	O	20		
Not Used	156	LEP	EPA Required Data	O	>1		
Not Used	157	LH4	Canadian Dangerous Requirements	O	1		
Not Used	158	LHT	Transborder Hazardous Requirements	O	3		
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10		
Not Used	160	PER	Administrative Communications Contact	O	5		
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1		
					LOOP ID - CLD		200
Not Used	170	CLD	Load Detail	O	1		
Not Used	180	REF	Reference Identification	O	200		
Not Used	185	DTP	Date or Time or Period	O	1		
Not Used	190	MAN	Marks and Numbers	O	>1		
	200	DTM	Date/Time Reference - Item	O	10		
Not Used	210	FOB	F.O.B. Related Instructions	O	1		

Not Used	215	PAL	Pallet Information	O	1	
			LOOP ID - N1		200	
Not Used	220	N1	Name	O	1	
Not Used	230	N2	Additional Name Information	O	2	
Not Used	240	N3	Address Information	O	2	
Not Used	250	N4	Geographic Location	O	1	
Not Used	260	REF	Reference Identification	O	12	
Not Used	270	PER	Administrative Communications Contact	O	3	
Not Used	280	FOB	F.O.B. Related Instructions	O	1	
Not Used	290	SDQ	Destination Quantity	O	50	
Not Used	300	ETD	Excess Transportation Detail	O	1	
Not Used	310	CUR	Currency	O	1	
			LOOP ID - SAC		>1	
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	325	CUR	Currency	O	1	
Not Used	330	GF	Furnished Goods and Services	O	1	
Not Used	335	YNQ	Yes/No Question	O	10	
			LOOP ID - LM		10	
Not Used	340	LM	Code Source Information	O	1	
Not Used	350	LQ	Industry Code	M	100	
			LOOP ID - V1		>1	
Not Used	360	V1	Vessel Identification	O	1	
Not Used	370	R4	Port or Terminal	O	>1	
Not Used	380	DTM	Date/Time Reference	O	>1	

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	010	CTT	Transaction Totals	O	1		
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. 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.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

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

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

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.
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.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	BSN01	353 Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 07 Duplicate	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 expressed as CCYYMMDD	M DT 8/8
>>	BSN04	337 Time 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)	M TM 4/8
>>	BSN05	1005 Hierarchical Structure Code 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	O ID 4/4
X	BSN06	640 Transaction Type Code Code specifying the type of transaction	C ID 2/2
X	BSN07	641 Status Reason Code Code indicating the status reason	O ID 3/3

Segment: **HL Hierarchical Level - Shipment**
Position: 010
Loop: HL Mandatory
Level: Detail:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

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.	Data Element	Name	Attributes
>>	HL01	Hierarchical ID Number 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.	M AN 1/12
X	HL02	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
>>	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment	M ID 1/2
X	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1

Segment: **TD1** Carrier Details (Quantity and Weight) - Shipment
Position: 110
Loop: HL Mandatory
Level: Detail:
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.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments:

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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	
		Part 1	
		BAG	Bag
		CTN	Carton
		MIX	Mixed Container Types More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket) Can be used only with code 71 in Part 2
		PLT	Pallet
		SLP	Slip Sheet Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
		SRW	Shrink Wrap In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents
		Part 2	
		01	Aluminum
		25	Corrugated or Solid
		31	Fibre
		58	Metal
		71	Not Otherwise Specified
		76	Paper
		79	Plastic
		91	Stainless Steel
		94	Wood
TD102	80	Lading Quantity	C N0 1/7
		Number of units (pieces) of the lading commodity	
		The number of packages in the shipment as described in TD101	

TD103	23	Commodity Code Qualifier	O	ID 1/1
		Code identifying the commodity coding system used for Commodity Code		
TD104	22	Commodity Code	C	AN 1/30
		Code describing a commodity or group of commodities		
TD105	79	Lading Description	C	AN 1/50
		Description of an item as required for rating and billing purposes		
TD106	187	Weight Qualifier	O	ID 1/2
		Code defining the type of weight		
		G Gross Weight		
TD107	81	Weight	C	R 1/10
		Numeric value of weight		
TD108	355	Unit or Basis for Measurement Code	C	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		KG Kilogram		
		LB Pound		
TD109	183	Volume	C	R 1/8
		Value of volumetric measure		
		Gross volume		
TD110	355	Unit or Basis for Measurement Code	C	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.		

Segment:	TD5 Carrier Details (Routing Sequence/Transit Time) - Shipment
Position:	120
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 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. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 If TD515 is present, then TD512 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, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
Notes:	<p>This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a pre-established routing guide, use code 91 or 92 in TD502 and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2 and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.</p> <p>When using a small package service provider as the carrier, TD502 will contain code 2, TD503 will contain the carrier's SCAC, and TD504 will contain code U to inform the receiver of a small package service shipment.</p>

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Routing Sequence Code</u>	<u>O ID 1/2</u>
TD501	133	Code describing the relationship of a carrier to a specific shipment movement	
		1 1st Carrier after Origin Carrier	
		2 2nd Carrier after Origin Carrier	
		3 3rd Carrier after Origin Carrier	
		4 4th Carrier after Origin Carrier	
		5 5th Carrier after Origin Carrier	
		6 6th Carrier after Origin Carrier	
		7 7th Carrier after Origin Carrier	
		8 8th Carrier after Origin Carrier	
		9 9th Carrier after Origin Carrier	
		A Origin Carrier, Agent's Routing (Rail)	
		B Origin/Delivery Carrier (Any Mode)	
		O Origin Carrier (Air, Motor, or Ocean)	
		S Origin Carrier, Shipper's Routing (Rail)	
TD502	66	Code designating the system/method of code structure used for Identification Code (67)	C ID 1/2
		2 Standard Carrier Alpha Code (SCAC)	
		91 Assigned by Seller or Seller's Agent	

		92	Canadian ECR: This code is not recommended for use Assigned by Buyer or Buyer's Agent Canadian ECR: This code is not recommended for use		
	TD503	67	Identification Code Code identifying a party or other code	C	AN 2/80
	TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment H Customer Pickup M Motor (Common Carrier) R Rail	C	ID 1/2
	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 CC Shipment Complete on (Date)	C	ID 2/2
X	TD507	309	Location Qualifier Code identifying type of location	O	ID 1/2
X	TD508	310	Location Identifier Code which identifies a specific location See External Code Source 54 in Section III for reference document. VICS EDI users are to refer to U.S. Census Schedule D, U.S. Customs District/Port Codes and official code lists relevant to other countries (entry country).	C	AN 1/30
X	TD509	731	Transit Direction Code The point of origin and point of direction	O	ID 2/2
X	TD510	732	Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time	O	ID 2/2
X	TD511	733	Transit Time The numeric amount of transit time	C	R 1/4
X	TD512	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID 2/2
X	TD513	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID 2/2
X	TD514	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	O	ID 2/2
X	TD515	26	Country Code Code identifying the country	O	ID 2/3

Segment: **TD3 Carrier Details (Equipment) - Shipment**
Position: 130
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 12
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:

- 1 Only one of TD301 or TD310 may be present.
- 2 If TD302 is present, then TD303 is required.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

This segment is used to specify the trailer number for a truckload shipment.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	TD301	40 Equipment Description Code Code identifying type of equipment used for shipment CV Closed Van FT Flat Bed Trailer RT Controlled Temperature Trailer (Reefer) TL Trailer (not otherwise specified)	C 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
X	TD304	187 Weight Qualifier Code defining the type of weight	O ID 1/2
X	TD305	81 Weight Numeric value of weight	C R 1/10
X	TD306	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
X	TD307	102 Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment	O ID 1/1
X	TD308	407 Seal Status Code Code indicating condition of door seal upon arrival	O ID 2/2
X	TD309	225 Seal Number Unique number on seal used to close a shipment	O AN 2/15
X	TD310	24 Equipment Type Code identifying equipment type	C ID 4/4

Segment: **TD4** Carrier Details (Special Handling, or Hazardous Materials, or Both)
Position: 140
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 5
Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Syntax Notes:
1 At least one of TD401 TD402 or TD404 is required.
2 If TD402 is present, then TD403 is required.

Semantic Notes:
1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Comments:

R_x

Available for ECR_x purposes only

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
>>	TD401	152 Special Handling Code Code specifying special transportation handling instructions	C ID 2/3
		CC Container, Consolidator Load Full container Full container	
		CF Container, Factory Load Full container, not to be opened for consolidation Full container, not to be opened for consolidation	
		LN Less Than Container, Consolidator Load	
		LR Less Than Container, Factory Load	
		TC Trailer, Consolidator Load Full trailer Full trailer	
		TF Trailer, Factory Load Full trailer, not to be opened for consolidation Full trailer, not to be opened for consolidation	
X	TD402	208 Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209) Refer to 004010VICS Data Element Dictionary for acceptable code values.	C ID 1/1
X	TD403	209 Hazardous Material Class Code Code specifying the kind of hazard for a material	C AN 1/4
X	TD404	352 Description A free-form description to clarify the related data elements and their content	C AN 1/80
X	TD405	1073 Yes/No Condition or Response Code Code indicating a Yes or No condition or response Refer to 004010VICS Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **REF** Reference Identification - Shipment
Position: 150
Loop: HL Mandatory
Level: Detail:
Usage: Optional
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:
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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice) MB Master Bill of Lading	M ID 2/3
>>	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/30
X	REF03	352	Description A free-form description to clarify the related data elements and their content	C AN 1/80
X	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O

Segment: **PER Administrative Communications Contact - Shipment**
Position: 151
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named DI Delivery Instructions Contact	M ID 2/2
	PER02	93	Name Free-form name	O AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	C ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/80
X	PER05	365	Communication Number Qualifier Code identifying the type of communication number	C ID 2/2
X	PER06	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/80
X	PER07	365	Communication Number Qualifier Code identifying the type of communication number	C ID 2/2
X	PER08	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/80
X	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O AN 1/20

Segment: **DTM** Date/Time Reference - Shipment
Position: 200
Loop: HL Mandatory
Level: Detail:
Usage: Optional
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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:



Data Element Summary





	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M ID 3/3
			011 Shipped	
			017 Estimated Delivery	
			067 Current Schedule Delivery	
			068 Current Schedule Ship	
			AA1 Estimated Point of Arrival	
			AA2 Estimated Point of Discharge	
>>	DTM02	373	Date Date expressed as CCYYMMDD	C DT 8/8
	DTM03	337	Time 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)	C TM 4/8
X	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
X	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	C ID 2/3
X	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	C AN 1/35

Segment: **N1 Name - Shipment**
Position: 220
Loop: N1 Optional
Level: Detail:
Usage: Mandatory
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.
 2 N105 and N106 further define the type of entity in N101.
Notes: N103 and N104 are required except when N101 contains code MA or OB.

In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR, N103 will contain code 93, and N104 will contain the actual identification number. To identify the receiver of the transaction set, N101 will contain code TO, N103 will contain code 94, and N104 will contain the actual identification number. These four codes may be used only in the combination listed above and may be used only to identify the sender and/or receiver of the transaction set.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	N101	98 Entity Identifier Code	M ID 2/3
  R_x		Code identifying an organizational entity, a physical location, property or an individual Canadian ECR/EFR/ECRx use codes: MA, SF and ST only	
		BS Bill and Ship To	
		CS Consolidator	This is the consolidation point for the order and must be used in conjunction with an additional N1 segment containing code ST in the N101
		FR Message From	
		LP Loading Party	Loading point/port
		MA Party for whom Item is Ultimately Intended	Ultimate Receiver
		OB Order By	Customer of Retailer
		SF Ship From	
		ST Ship To	
		TO Message To	
		UP Unloading Party	Unloading point/port
		YW Discharge Point	
	N102	93 Name	C AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	C ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	

			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
		R_x	21	Health Industry Number		
				Canadian ECR _x : This has been approved by the VICS EDI SMC for use in VICS EDI version 004020. Use prior to version 004020 through trading partner agreement only.		
			91	Assigned by Seller or Seller's Agent		
			92	Assigned by Buyer or Buyer's Agent		
			93	Code assigned by the organization originating the transaction set		
		R_x		Canadian ECR/EFR/ECR _x : This code is not recommended for use		
			94	Code assigned by the organization that is the ultimate destination of the transaction set		
		R_x		Canadian ECR/EFR/ECR _x : This code is not recommended for use		
	N104	67	Identification Code		C	AN 2/80
			Code identifying a party or other code			
				This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.		
X	N105	706	Entity Relationship Code		O	ID 2/2
			Code describing entity relationship			
X	N106	98	Entity Identifier Code		O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			

Segment: **N2 Additional Name Information**
Position: 230
Loop: N1 Optional
Level: Detail:
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> N201	93	Name Free-form name	M AN 1/60
N202	93	Name Free-form name	O AN 1/60

Segment: **N3** Address Information
Position: 240
Loop: N1 Optional
Level: Detail:
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N301	166	Address Information Address information	M AN 1/55
R _x	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 250
Loop: N1 Optional
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: N401 and N402 are required unless N405 and N406 are used.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26	Country Code Code identifying the country	O ID 2/3
N405	309	Location Qualifier Code identifying type of location D Census Schedule D IA International Air Transport Association (IATA) K Census Schedule K W Worldwide Geographic Location Code	C ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O AN 1/30

Segment: **HL Hierarchical Level - Unit Load**
Position: 010
Loop: HL Mandatory
Level: Detail:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

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.	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
		UT Unit or Lot	
		Unit load	
X	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1

Segment: **TD3 Carrier Details (Equipment) - Unit Load**
Position: 130
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 12
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:

- 1 Only one of TD301 or TD310 may be present.
- 2 If TD302 is present, then TD303 is required.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	TD301	40	Equipment Description Code Code identifying type of equipment used for shipment	C ID 2/2
			20 20 ft. IL Container (Open Top)	
			2B 20 ft. IL Container (Closed Top)	
			40 40 ft. IL Container (Open Top)	
			4B 40 ft. IL Container (Closed Top)	
			CN Container	
			CZ Refrigerated Container	
X	TD302	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	O AN 1/4
X	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
X	TD304	187	Weight Qualifier Code defining the type of weight	O ID 1/2
X	TD305	81	Weight Numeric value of weight	C R 1/10
X	TD306	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
X	TD307	102	Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment	O ID 1/1
X	TD308	407	Seal Status Code Code indicating condition of door seal upon arrival	O ID 2/2
X	TD309	225	Seal Number Unique number on seal used to close a shipment	O AN 2/15
X	TD310	24	Equipment Type Code identifying equipment type	C ID 4/4

Segment:	MAN Marks and Numbers - Unit Load
Position:	190
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	This segment, at the unit load level, is used to specify the identification number for the unit load.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
>>	MAN01	88 Marks and Numbers Qualifier 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.	M ID 1/2
>>	MAN02	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48
X	MAN03	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48
X	MAN04	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	C ID 1/2
X	MAN05	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	C AN 1/48
X	MAN06	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48

Segment: **HL Hierarchical Level - Order**
Position: 010
Loop: HL Mandatory
Level: Detail:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

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.	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
X	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1

Segment: PRF Purchase Order Reference - Order
Position: 050
Loop: HL Mandatory
Level: Detail:
Usage: Optional
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:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number	M AN 1/22
X	PRF02	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Retailer's release against the purchase order, if used	O AN 1/30
X	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
X	PRF04	373	Date Date expressed as CCYYMMDD Retailer's original purchase order date	O DT 8/8
X	PRF05	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set The number assigned to the original purchase order line item; the value of PO101 for the previously transmitted purchase order, if used	O AN 1/20
X	PRF06	367	Contract Number Contract number	O AN 1/30
X	PRF07	92	Purchase Order Type Code Code specifying the type of Purchase Order	O ID 2/2

Segment: **TD1** **Carrier Details (Quantity and Weight) - Order**
Position: 110
Loop: HL Mandatory
Level: Detail:
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.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

This segment, at the order level, is used to specify the number and type of shipping containers in the order.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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	
		Part 1	
		BAG Bag	
		CTN Carton	
		PLT Pallet	
		Part 2	
		01 Aluminum	
		25 Corrugated or Solid	
		31 Fibre	
		76 Paper	
		79 Plastic	
		94 Wood	
TD102	80	Lading Quantity	C NO 1/7
		Number of units (pieces) of the lading commodity	
X	TD103	23 Commodity Code Qualifier	O ID 1/1
		Code identifying the commodity coding system used for Commodity Code	
X	TD104	22 Commodity Code	C AN 1/30
		Code describing a commodity or group of commodities	
X	TD105	79 Lading Description	O AN 1/50
		Description of an item as required for rating and billing purposes	
	TD106	187 Weight Qualifier	O ID 1/2
		Code defining the type of weight	
		G Gross Weight	
	TD107	81 Weight	C R 1/10
		Numeric value of weight	
	TD108	355 Unit or Basis for Measurement Code	C 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.	
X	TD109	183 Volume	C R 1/8
		Value of volumetric measure	
		Gross volume	

X	TD110	355	Unit or Basis for Measurement Code	C ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

Segment: **REF** Reference Identification **Detail – Order** **(Added to EDI VICS 4050 CDN Profile March 2002)**
Position: 150
Loop: HL
Level: Detail - Order
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 **R0203**
 At least one of REF02 or REF03 is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Data Element Summary

Ref.	Data Element	Name	Attributes
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		6B U.S. Customs Service (USCS) Entry Number Customs entry number	
		BM Bill of Lading Number	
		BT Batch Number	
		CH Customer Catalog Number	
		CO Customer Order Number Customer of retailer	
		DP Department Number	
		HB Bill & Hold Invoice Number	
		IA Internal Vendor Number Identification number assigned to the vendor, by the retailer, for use within the retailer's system.	
		IT Internal Customer Number Identification number assigned to the retailer, by the vendor, for use within the vendor's system	
		IV Seller's Invoice Number	
		MR Merchandise Type Code	
		PD Promotion/Deal Number	
		QC Product Specification Document Number Schematic reference number	
		SB Sales Region Number	
		UCB UCC Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document.	
		UCM UCC Master Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document.	
		VN Vendor Order Number	
	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50
X	REF03	352 Description A free-form description to clarify the related data elements and their content	C AN 1/80
X	REF04	C040 Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O Composite

Segment: **N1 Name - Order**

Position: 220

Loop: N1 Optional

Level: Detail:

Usage: Mandatory

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.
- 2 N105 and N106 further define the type of entity in N101.

Notes: There will be at least one occurrence, of this segment, to identify the buying party by using code BY in N101.

N103 and N104 are required except when N101 contains code CT, MA or OB.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	N101	98 Entity Identifier Code	M ID 2/3
  		Code identifying an organizational entity, a physical location, property or an individual Canadian ECR/EFR/ECRx use codes BY and MA only	
		AG Agent/Agency	Buyer's agent
		BO Broker or Sales Office	For a domestic purchase order, this is the manufacturer's sales office. For an import purchase order this is the sales office that interacts with the manufacturer's/buyer's agent.
		BY Buying Party (Purchaser)	
		CT Country of Origin	
		MA Party for whom Item is Ultimately Intended	Ultimate receiver
		OB Ordered By	Customer of retailer
		SU Supplier/Manufacturer	Supplier may or may not be the manufacturer
		Z7 Mark-for Party	The party for whom the needed material is intended This is the receiving location for the order where the location is neither the buying party nor the ship-to location and the mark-for party is specified on the shipping label, e.g., the mark-for party is a satellite warehouse, the buying party is the store, and the ship-to location is the distribution center.
	N102	93 Name	C AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	C ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	

		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
		R _x 21	Health Industry Number		
			Canadian ECRx: This has been approved by the VICS EDI SMC for use in VICS EDI version 004020. Use prior to version 004020 through trading partner agreement only.		
		91	Assigned by Seller or Seller's Agent		
		92	Assigned by Buyer or Buyer's Agent		
		UL	UCC/EAN Location Code		
			A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering systems.		
	N104	67	Identification Code	C	AN 2/80
			Code identifying a party or other code		
			This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.		
X	N105	706	Entity Relationship Code	O	ID 2/2
			Code describing entity relationship		
X	N106	98	Entity Identifier Code	O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		

Segment: **N2** Additional Name Information
Position: 230
Loop: N1 Optional
Level: Detail:
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	<u>N201</u>	<u>93</u>	<u>Name</u> Free-form name	M AN 1/60
	<u>N202</u>	<u>93</u>	<u>Name</u> Free-form name	O AN 1/60

Segment: **N3** Address Information
Position: 240
Loop: N1 Optional
Level: Detail:
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N301	166	Address Information Address information	M AN 1/55
R _x	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 250
Loop: N1 Optional
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26	Country Code Code identifying the country	O ID 2/3
X	N405	309 Location Qualifier Code identifying type of location	C ID 1/2
X	N406	310 Location Identifier Code which identifies a specific location	O AN 1/30

Segment: **HL Hierarchical Level - Tare**
Position: 010
Loop: HL Mandatory
Level: Detail:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

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.	Data Element	Name	Attributes
>>	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
>>	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
>>	HL03	735 Hierarchical Level Code	M ID 1/2 Code defining the characteristic of a level in a hierarchical structure
X	HL04	736 Hierarchical Child Code	O ID 1/1 Code indicating if there are hierarchical child data segments subordinate to the level being described

Segment:	MAN Marks and Numbers - Tare
Position:	190
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	This segment, at the tare level, is used to specify the identification numbers for the pallet.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
>>	MAN01	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) GM SSCC-18 and Application Identifier	M ID 1/2
			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.
>>	MAN02	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48
X	MAN03	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48
X	MAN04	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	C ID 1/2
X	MAN05	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	C AN 1/48
X	MAN06	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48

Segment: **PAL** Pallet Information - Tare
Position: 215
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

- Syntax Notes:**
- 1 If either PAL05 or PAL06 is present, then the other is required.
 - 2 If PAL07 is present, then PAL10 is required.
 - 3 If PAL08 is present, then PAL10 is required.
 - 4 If PAL09 is present, then PAL10 is required.
 - 5 If PAL10 is present, then at least one of PAL07 PAL08 or PAL09 is required.
 - 6 If either PAL11 or PAL12 is present, then the other is required.
 - 7 If either PAL13 or PAL14 is present, then the other is required.

- Semantic Notes:**
- 1 PAL04 (Pack) is the number of pieces on the pallet.
 - 2 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
 - 3 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
 - 4 PAL09 (Height) is the height of the pallet and load.
 - 5 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
PAL01	883	Pallet Type Code Code indicating the type of pallet	O ID 1/2
		1 Aluminum	
		2 As Specified by the Department of Transportation (DOT)	
		3 Metal	
		4 Standard	
		5 Steel	
		6 Wood	
		7 Slip sheet Typically cardboard or plastic sheets used to hold product for storage or transportation	
PAL02	884	Pallet Tiers The number of layers per pallet	O N0 1/3
PAL03	885	Pallet Blocks The number of pieces (cartons) per layer on the pallet	O N0 1/3
PAL04	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container	O N0 1/6
X	PAL05	395 Unit Weight Numeric value of weight per unit	C R 1/8
X	PAL06	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
X	PAL07	82 Length Largest horizontal dimension of an object measured when the object is in the upright position	C R 1/8
X	PAL08	189 Width	C R 1/8

			Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
X	PAL09	65	Height	C	R 1/8
			Vertical dimension of an object measured when the object is in the upright position		
X	PAL10	355	Unit or Basis for Measurement Code	C	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	PAL11	384	Gross Weight per Pack	C	R 1/9
			Numeric value of gross weight per pack		
X	PAL12	355	Unit or Basis for Measurement Code	C	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
X	PAL13	385	Gross Volume per Pack	C	R 1/9
			Numeric value of gross volume per pack		
X	PAL14	355	Unit or Basis for Measurement Code	C	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
	PAL15	399	Pallet Exchange Code	O	ID 1/1
			Code specifying pallet exchange instructions		
			1 No Exchange/No Return		
			2 Exchange Pallets		
			3 Return Pallets		
			4 Pallets to be Purchased by Customer		
			5 Third-Party Pallet Exchange		
			A pallet exchange program where a third party rents pallets for internal or external use		
X	PAL16	810	Inner Pack	O	N0 1/6
			The number of eaches per inner container		

Segment: **HL Hierarchical Level - Pack**
Position: 010
Loop: HL Mandatory
Level: Detail:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

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.	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure P Pack	M ID 1/2
X	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1

Segment:	LIN Item Identification - Pack
Position:	020
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 1 See the Data Dictionary for a complete list of IDs. 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:	<p>This segment, at the pack level, is used to specify the U.P.C./EAN Case Code or the U.P.C./EAN Shipping Container Code (SCC-14), and production information. The SN1 segment that follows is used to specify the number of cases identified in the LIN segment. The LIN segment, at the item level, is used to indicate the individual consumer units for the case code.</p> <p>The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
X	LIN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
>>	LIN02	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Canadian ECR: After database reengineering, it is strongly recommended that trading partners adopt "UK" for product identification.	M ID 2/2
		LT Lot Number	
		UA U.P.C./EAN Case Code (2-5-5) See External Code Source 41 in Section III for reference document.	
		UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the	

final digit is the check digit

Canadian ECR: After database reengineering, Canadian ECR strongly recommends trading partners adopt "UK" for product identification.

>>	LIN03	234	Product/Service ID Identifying number for a product or service	M	AN 1/48
	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
	LIN05	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
	LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
	LIN07	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN09	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN11	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN12	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN13	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN14	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN15	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN16	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN17	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN19	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN21	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN23	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN24	235	Product/Service ID Qualifier	C	ID 2/2

			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN25	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN27	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN29	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN31	234	Product/Service ID Identifying number for a product or service	C	AN 1/48

Segment: **SN1** Item Detail (Shipment) - Pack
Position: 030
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
Comments: 1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: This segment, at the pack level, is used only to specify the number of cases identified by the U.P.C./EAN Case Code or the U.P.C./EAN Shipping Container Code (SCC-14) in the previous LIN segment. The LIN segment in the item level is used to indicate the individual consumer units for the case code.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
X	SN101	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
>>	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	
>>	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	
			CA Case	
X	SN104	646	Quantity Shipped to Date	O R 1/15
			Number of units shipped to date	
X	SN105	330	Quantity Ordered	C R 1/15
			Quantity ordered	
X	SN106	355	Unit or Basis for Measurement Code	C ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
X	SN107	728	Returnable Container Load Make-Up Code	O ID 1/2
			Code identifying the load make-up of the returnable containers in the shipment	
X	SN108	668	Line Item Status Code	O ID 2/2
			Code specifying the action taken by the seller on a line item requested by the buyer	

Segment:	MAN Marks and Numbers - Pack
Position:	190
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
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

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	MAN01	88	Marks and Numbers Qualifier 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. UC U.P.C. Shipping Container Code This is the fourteen-digit U.P.C. Shipping Container Code. UP U.P.C. Consumer Package Code (1-5-5-1)	M ID 1/2
>>	MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48
X	MAN03	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48
X	MAN04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	C ID 1/2
X	MAN05	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	C AN 1/48
X	MAN06	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48

Segment: **HL Hierarchical Level - Item**
Position: 010
Loop: HL Mandatory
Level: Detail:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

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.	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
X	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1

Segment:	LIN Item Identification - Item
Position:	020
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 1 See the Data Dictionary for a complete list of IDs. 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:	<p>The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.</p> <p>See Section III for complete U.P.C. and EAN code definitions.</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
X	LIN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
>>	LIN02	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Canadian ECR: After database reengineering, it is strongly recommended that trading partners adopt "UK" for product identification.	M ID 2/2
		EN	European Article Number (EAN) (2-5-5-1)
		IT	Buyer's Style Number
		LT	Lot Number
			Canadian ECR: This code has been approved by the VICS SMC and will be permitted for use in version 004020. Use of this code is permitted prior to version 004020 by trading partner agreement.
		UA	U.P.C./EAN Case Code (2-5-5)
			Canadian ECR: "UA" is not recommended for new applications. It is being phased out.
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)
			Canadian ECR: After database reengineering, it is strongly recommended that trading partners adopt "UK" for product identification.

			UN	U.P.C. Case Code Number (1-2-5-5)		
			UP	U.P.C. Consumer Package Code (1-5-5-1)		
>>	LIN03	234	Product/Service ID		M	AN 1/48
			Identifying number for a product or service			
	LIN04	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN05	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
	LIN06	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN07	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
	LIN08	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN09	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
	LIN10	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN11	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
	LIN12	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN13	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
	LIN14	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN15	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
	LIN16	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
	LIN17	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
X	LIN18	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
X	LIN19	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
X	LIN20	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
X	LIN21	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			
X	LIN22	235	Product/Service ID Qualifier		C	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
X	LIN23	234	Product/Service ID		C	AN 1/48
			Identifying number for a product or service			

X	LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN25	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN27	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN29	234	Product/Service ID Identifying number for a product or service	C	AN 1/48
X	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID 2/2
X	LIN31	234	Product/Service ID Identifying number for a product or service	C	AN 1/48

Segment: **SN1** Item Detail - Item
Position: 030
Loop: HL Mandatory
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
Comments: 1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: 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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
X	SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
>>	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 or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list.	M ID 2/2
X	SN104	646	Quantity Shipped to Date Number of units shipped to date	O R 1/15
X	SN105	330	Quantity Ordered Quantity ordered	C R 1/15
X	SN106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
X	SN107	728	Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment	O ID 1/2
X	SN108	668	Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer	O ID 2/2

Segment:	PO4 Item Physical Details - Item
Position:	060
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:	<ol style="list-style-type: none"> 1 If either PO402 or PO403 is present, then the other is required. 2 If PO405 is present, then PO406 is required. 3 If either PO406 or PO407 is present, then the other is required. 4 If either PO408 or PO409 is present, then the other is required. 5 If PO410 is present, then PO413 is required. 6 If PO411 is present, then PO413 is required. 7 If PO412 is present, then PO413 is required. 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required. 9 If PO417 is present, then PO416 is required. 10 If PO418 is present, then PO404 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package. 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers. 3 PO417 is the ending package identifier in a range of identifiers. 4 PO418 is the number of packages in this layer.
Comments:	<ol style="list-style-type: none"> 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ". 2 PO413 defines the unit of measure for PO410, PO411, and PO412.
Notes:	<p>This segment is used to specify the packaging of the item in the case or carton. There may be two levels of packaging specified. The first level is always specified by using PO401 (Pack). The first level may be actual items, e.g., consumer units, or it may be the number of smaller containers within the case. The second level, specified using PO414 (Inner Pack), is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. See Section V (Pack/Inner Pack Usage) for usage examples.</p> <p>This segment can be used also to specify the weight and/or volume (cube) for the item by using PO406 and PO407, and/or PO408 and PO409.</p>

Data Element Summary

<u>Ref.</u>	<u>Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	PO401	356	Pack	O N0 1/6
			The number of inner containers, or number of eaches if there are no inner containers, per outer container	
X	PO402	357	Size	C R 1/8
			Size of supplier units in pack	
X	PO403	355	Unit or Basis for Measurement Code	C ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
X	PO404	103	Packaging Code	C 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	
X	PO405	187	Weight Qualifier	O ID 1/2
			Code defining the type of weight	

	PO406	384	Gross Weight per Pack	C	R 1/9
			Numeric value of gross weight per pack		
			Canadian ECR: This element is not recommended for use		
	PO407	355	Unit or Basis for Measurement Code	C	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Canadian ECR: This element is not recommended for use		
	PO408	385	Gross Volume per Pack	C	R 1/9
			Numeric value of gross volume per pack		
			Canadian ECR: This element is not recommended for use		
	PO409	355	Unit or Basis for Measurement Code	C	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Canadian ECR: This element is not recommended for use		
X	PO410	82	Length	C	R 1/8
			Largest horizontal dimension of an object measured when the object is in the upright position		
X	PO411	189	Width	C	R 1/8
			Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
X	PO412	65	Height	C	R 1/8
			Vertical dimension of an object measured when the object is in the upright position		
X	PO413	355	Unit or Basis for Measurement Code	C	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
	PO414	810	Inner Pack	O	N0 1/6
			The number of eaches per inner container		
X	PO415	752	Surface/Layer/Position Code	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		
X	PO416	350	Assigned Identification	C	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
X	PO417	350	Assigned Identification	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
X	PO418	1470	Number	O	N0 1/9
			A generic number		

Segment:	PID Product/Item Description - Item
Position:	070
Loop:	HL Mandatory
Level:	Detail:
Usage:	Optional
Max Use:	200
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05.
Comments:	<ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03.
Notes:	The PID segment is used to provide product/item descriptions in text and or coded formats. The codes in PID04 are maintained by the VICS EDI SMC and are only printed in this guideline.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	PID01	349 Item Description Type Code indicating the format of a description F Free-form The description will be found in PID05.	M ID 1/1
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic 08 Product	O ID 2/3
	PID03	559 Agency Qualifier Code Code identifying the agency assigning the code values Canadian ECR: This element is not recommended for use VI Voluntary Inter-Industry Commerce Standard (VICS) EDI	C ID 2/2
	PID04	751 Product Description Code A code from an industry code list which provides specific data about a product characteristic Canadian ECR: This element is not recommended for use CL Collateral GW Gift with purchase OS Size not within normal size range (odd size) PP Product sold only as part of a prepack (assortment) PW Purchase with pPurchase RN Product cannot be reordered RY Product can be reordered	C AN 1/12
	PID05	352 Description A free-form description to clarify the related data elements and their content	C AN 1/80
X	PID06	752 Surface/Layer/Position Code	O ID 2/2

			Code indicating the product surface, layer or position that is being described	
X	PID07	822	Source Subqualifier	O AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier	
X	PID08	1073	Yes/No Condition or Response Code	O ID 1/1
			Code indicating a Yes or No condition or response	
X	PID09	819	Language Code	O ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	

Segment: **TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)**

Position: 140
 Loop: HL Mandatory
 Level: Detail:
 Usage: Optional
 Max Use: 5
 Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Syntax Notes: 1 At least one of TD401 TD402 or TD404 is required.
 2 If TD402 is present, then TD403 is required.

Semantic Notes: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Comments:

R_x

Available for ECR_x purposes only

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
TD401	152	Special Handling Code Code specifying special transportation handling instructions	C ID 2/3
		CO No Marshalling Required for Hazardous Materials	
		DA Dangerous	
		EX Explosive Flammable Gas	
		FG Flammable Gas	
		FL Flammable	
		FP Flammable Poison Gas	
		HM Endorsed as Hazardous Material	
		NPR No Placards Required	
		NW In Case of Fire Do Not Use Water	
		PG Poisonous Gas	
		RM Radioactive Material	
		UN Unload as Placarded	
TD402	208	Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209)	C ID 1/1
		9 Title 49, Code of Federal Regulations (CFR)	
		U United Nations	
TD403	209	Hazardous Material Class Code Code specifying the kind of hazard for a material	C AN 1/4
X	TD404	352 Description A free-form description to clarify the related data elements and their content	C AN 1/80
X	TD405	1073 Yes/No Condition or Response Code Code indicating a Yes or No condition or response Refer to 004010VICS Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **REF** Reference Identification - Item
Position: 150
Loop: HL Mandatory
Level: Detail:
Usage: Optional
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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CO Customer Order Number Customer of retailer LT Lot Number Canadian ECR: This code has been approved by the VICS SMC and will be permitted for use as in version 004020 version. Use of this code is permitted prior to the version 004020 by trading partner agreement. SE Serial Number	M ID 2/3
>>	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/30
X	REF03	352	Description A free-form description to clarify the related data elements and their content	C AN 1/80
X	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O

Segment: **DTM** Date/Time Reference - Item
Position: 200
Loop: HL Mandatory
Level: Detail:
Usage: Optional
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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 036 Expiration Date coverage expires Used for perishable products	M ID 3/3
>>	DTM02	373	Date Date expressed as CCYYMMDD	C DT 8/8
X	DTM03	337	Time 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)	C TM 4/8
X	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
X	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	C ID 2/3
X	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	C AN 1/35

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary:
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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	CTT01	354	Number of Line Items Total number of line items in the transaction set The number of HL segments present in the transaction set	M N0 1/6
X	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 left most 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
X	CTT03	81	Weight Numeric value of weight	C R 1/10
X	CTT04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
X	CTT05	183	Volume Value of volumetric measure	C R 1/8
X	CTT06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
X	CTT07	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

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