



856 HC Ship Notice/Manifest

Healthcare EDI Consignment

Version: 006020HC2020 Final

Author:	GS1 Canada Healthcare
Publication:	2/20/2020
Notes:	May 2020 Implementation

Table of Contents

856	HC Ship Notice/Manifest - Canada	1
ST	Transaction Set Header	4
BSN	Beginning Segment for Ship Notice	5
HL	Loop Hierarchical Level	7
HL	Hierarchical Level	8
TD1	Carrier Details (Quantity and Weight)	9
TD5	Carrier Details (Routing Sequence/Transit Time)	11
TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	13
REF	Reference Information	14
PER	Administrative Communications Contact	15
MAN	Marks and Numbers Information	17
DTM	Date/Time Reference	19
N1	Loop Party Identification	20
N1	Party Identification	21
N2	Additional Name Information	23
N3	Party Location	24
N4	Geographic Location	25
HL	Loop Order	26
HL	Hierarchical Level	27
PRF	Purchase Order Reference	28
TD1	Carrier Details (Quantity and Weight)	29
REF	Reference Information	31
N1	Loop Party Identification	32
N1	Party Identification	33
N2	Additional Name Information	34
N3	Party Location	35
N4	Geographic Location	36
HL	Loop Tare	37
HL	Hierarchical Level	38
MAN	Marks and Numbers Information	39
HL	Loop Pack	41
HL	Hierarchical Level	42
LIN	Item Identification	43
SN1	Item Detail (Shipment)	47
PRF	Purchase Order Reference	49
REF	Reference Information	50
MAN	Marks and Numbers Information	52
HL	Loop Item	54
HL	Hierarchical Level	55
LIN	Item Identification	56

SN1	Item Detail (Shipment)	60
PRF	Purchase Order Reference	62
PID	Product/Item Description	63
TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	64
REF	Reference Information	65
CTT	Transaction Totals	67
SE	Transaction Set Trailer	68

856 HC Ship Notice/Manifest - Canada

Functional Group=SH

Purpose: This X12 Transaction Set 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</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	M	1			Must use
0200	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20			Used
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			Used
1500	REF	Reference Information	O	>1			Used
1510	PER	Administrative Communications Contact	O	3			Used
1900	MAN	Marks and Numbers Information	O	>1			Used
2000	DTM	Date/Time Reference	O	10			Used
LOOP ID - N1					200		
2200	N1	Party Identification	O	1			Must use
2300	N2	Additional Name Information	O	2			Used
2400	N3	Party Location	O	2			Used
2500	N4	Geographic Location	O	1			Used
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0500	PRF	Purchase Order Reference	O	1			Used
1100	TD1	Carrier Details (Quantity and Weight)	O	20			Used
1500	REF	Reference Information	O	>1			Used
LOOP ID - N1					200		
2200	N1	Party Identification	O	1			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
2300	N2	Additional Name Information	O	2			Used
2400	N3	Party Location	O	2			Used
2500	N4	Geographic Location	O	1			Used
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	O	1		C2/0100	Used
1900	MAN	Marks and Numbers Information	O	>1			Used
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0200	LIN	Item Identification	O	1			Used
0300	SN1	Item Detail (Shipment)	O	1			Used
0500	PRF	Purchase Order Reference	O	1			Used
1500	REF	Reference Information	O	>1			Used
1900	MAN	Marks and Numbers Information	O	>1			Used
LOOP ID - HL					200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0200	LIN	Item Identification	O	1			Used
0300	SN1	Item Detail (Shipment)	O	1			Used
0500	PRF	Purchase Order Reference	O	1			Used
0700	PID	Product/Item Description	O	200			Used
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			Used
1500	REF	Reference Information	O	>1			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	CTT	Transaction Totals	O	1		N3/0100	Used
0200	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/0100 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.

Comments:

- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

Code List Summary (Total Codes: 320, Included: 1)

Code Name

856 Ship Notice/Manifest

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
------	-----	---------------------------------------	---	----	-----	----------

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BSN Beginning Segment for Ship Notice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set				
		Code List Summary (Total Codes: 67, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		00		Original		
		05		Replace		
BSN02	396	Shipment Identification	M	AN	2/30	Must use
		Description: A unique control number assigned by the original shipper to identify a specific shipment				
BSN03	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
BSN04	337	Time	M	TM	4/8	Must use
		Description: 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)				
BSN05	1005	Hierarchical Structure Code	O	ID	4/4	Must use
		Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set				
		Code List Summary (Total Codes: 82, Included: 4)				
		<u>Code</u>		<u>Name</u>		
		0001		Shipment, Order, Packaging, Item		
		0002		Shipment, Order, Item, Packaging		
		0003		Shipment, Packaging, Order, Item		
		0004		Shipment, Order, Item		

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

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.

Loop Hierarchical Level

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20		Used
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Used
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		Used
1500	REF	Reference Information	O	>1		Used
1510	PER	Administrative Communications Contact	O	3		Used
1900	MAN	Marks and Numbers Information	O	>1		Used
2000	DTM	Date/Time Reference	O	10		Used
2200		Loop N1	O		200	Must use

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		Description: 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	Used
		Description: 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	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code List Summary (Total Codes: 250, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		S	Shipment			

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	Packaging Code	O	AN	3/5	Used

Description: 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

Code List Summary - Part 1/2 (Total Codes: 157, Included: 7)

<u>Code</u>	<u>Name</u>
AAA	Pallet, Returnable
BOX	Box
CNT	Container
CYL	Cylinder
DRM	Drum
PLT	Pallet
SRW	Shrink Wrap

Description: *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*

Code List Summary - Part 2/2 (Total Codes: 58, Included: 13)

<u>Code</u>	<u>Name</u>
01	Aluminum
19	Cloth or Fabric
25	Corrugated or Solid

User Note 1:

Corrugated or solid packaging does not require repackaging for shipment

49	Insulated
52	Iron or Steel
76	Paper
79	Plastic
85	Rubber
86	Foam

Description: *In packaging, a cushioning material used to reduce shock and vibration or abrasion*

94	Wood
95	Single Wall Corrugated Board

Description: *The structure formed by one corrugated inner member between two flat facings; also known as double face*

96	Double Wall Corrugated Board
----	------------------------------

Code Name

Description: *The structure formed by three flat facings and two intermediate corrugated members*

97 Triple Wall Corrugated Board

Description: *The structure formed by four flat facings and three intermediate corrugated members*

TD102	80	Lading Quantity	X	N0	1/7	Used
-------	----	------------------------	---	----	-----	------

Description: Number of units (pieces) of the lading commodity

TD106	187	Weight Qualifier	O	ID	1/2	Used
-------	-----	-------------------------	---	----	-----	------

Description: Code defining the type of weight

Code List Summary (Total Codes: 53, Included: 1)

Code Name

G Gross Weight

TD107	81	Weight	X	R	1/10	Used
-------	----	---------------	---	---	------	------

Description: Numeric value of weight

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

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code List Summary (Total Codes: 903, Included: 4)

Code Name

GR Gram

KG Kilogram

LB Pound

OZ Ounce - Av

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1200	Max: 12
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

Purpose: To specify the carrier and sequence of routing and provide transit time information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD502	66	Identification Code Qualifier	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 254, Included: 4)

Code Name

2 Standard Carrier Alpha Code (SCAC)

User Note 1:

See External Code Source 17

91 Assigned by Seller or Seller's Agent

92 Assigned by Buyer or Buyer's Agent

UL Global Location Number (GLN)

Description:

Global Location Number (GLN)

A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

See Code Source 583

TD503	67	Identification Code	X	AN	2/80	Used
-------	----	---------------------	---	----	------	------

Description: Code identifying a party or other code

TD504	91	Transportation Method/Type Code	X	ID	1/2	Used
-------	----	---------------------------------	---	----	-----	------

Description: Code specifying the method or type of transportation for the shipment

Code List Summary (Total Codes: 81, Included: 10)

Code Name

7 Mail

Description: *Type of transportation provided by the U.S. Postal Service*

A Air

E Expedited Truck

H Customer Pickup

M Motor (Common Carrier)

R Rail

U Private Parcel Service

User Note 1:

Courier, Taxi or other delivery service.

Code Name

AE Air Express

SB Shipper Agent

Description: *Agent for piggyback code consolidation*

SR Supplier Truck

User Note 1:

Sender's private fleet.

TD505	387	Routing	X	AN	1/35	Used
-------	-----	----------------	---	----	------	------

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

TD506	368	Shipment/Order Status Code	X	ID	2/2	Used
-------	-----	-----------------------------------	---	----	-----	------

Description: 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

Code List Summary (Total Codes: 102, Included: 2)

Code Name

CC Shipment Complete on (Date)

PR Partial Shipment

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

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.

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

Pos: 1400	Max: 5
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD401	152	Special Handling Code	X	ID	2/3	Must use

Description: Code specifying special transportation handling instructions

Code List Summary (Total Codes: 579, Included: 9)

Code Name

AJ	Do Not Stack
FG	Flammable Gas
FL	Flammable
FR	Fragile - Handle with Care
NW	In Case of Fire Do Not Use Water
PG	Poisonous Gas
DNF	Do Not Freeze
	Description: <i>Specifies that the temperature of a shipment must not go below the freezing point during transit</i>
HAZ	Hazardous Cargo
MRF	Refrigerated

Syntax Rules:

1. R010204 - At least one of TD401, TD402 or TD404 is required.
2. C0203 - If TD402 is present, then TD403 is required.

Semantics:

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.

REF Reference Information

Pos: 1500 Max: >1
 Detail - Optional
 Loop: HL Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1813, Included: 3)

Code Name

- BM Bill of Lading Number
- CN Carrier's Reference Number (PRO/Invoice)
- PK Packing List Number

REF02	127	Reference Identification	X	AN	1/80	Must use
-------	-----	--------------------------	---	----	------	----------

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

PER Administrative Communications Contact

Pos: 1510	Max: 3
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use

Description: Code identifying the major duty or responsibility of the person or group named

Code List Summary (Total Codes: 241, Included: 3)

Code Name

BD Buyer Name or Department
DI Delivery Instructions Contact
HM Hazardous Material Contact

PER02	93	Name	O	AN	1/60	Used
-------	----	------	---	----	------	------

Description: Free-form name

PER03	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	--------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

Code List Summary (Total Codes: 43, Included: 4)

Code Name

EM Electronic Mail
FX Facsimile
TE Telephone
TS Text Message Address

Description: A communication protocol allowing for instant communication between parties using a text messaging service, such as Short Message Service (SMS)

User Note 1:

Defines the text message address where the contact person/group can be contacted.

PER04	364	Communication Number	X	AN	1/256	Used
-------	-----	----------------------	---	----	-------	------

Description: Complete communications number including country or area code when applicable

PER05	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	--------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

Code List Summary (Total Codes: 43, Included: 4)

Code Name

EM Electronic Mail
 FX Facsimile
 TE Telephone
 TS Text Message Address

Description: *A communication protocol allowing for instant communication between parties using a text messaging service, such as Short Message Service (SMS)*

User Note 1:

Defines the text message address where the contact person/group can be contacted.

PER06	364	Communication Number	X	AN	1/256	Used
-------	-----	-----------------------------	---	----	-------	------

Description: Complete communications number including country or area code when applicable

PER07	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	---------------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

Code List Summary (Total Codes: 43, Included: 4)

Code Name

EM Electronic Mail
 FX Facsimile
 TE Telephone
 TS Text Message Address

Description: *A communication protocol allowing for instant communication between parties using a text messaging service, such as Short Message Service (SMS)*

User Note 1:

Defines the text message address where the contact person/group can be contacted.

PER08	364	Communication Number	X	AN	1/256	Used
-------	-----	-----------------------------	---	----	-------	------

Description: Complete communications number including country or area code when applicable

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

Code List Summary (Total Codes: 30, Included: 5)

Code Name

AA EAN.UCC Serial Shipping Container Code (SSCC)

User Note 1:

This is an eighteen-character GS1 128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character.

See External Code Source 98

E1 Electronic Product Code (ePC) Serial Shipping Container Code (SSCC)

Description: Trade Item with ePC tag marked with SSCC value

E2 Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC)

Description: Trade Item with dual marking for barcode and ePC, with SSCC value

E3 Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI)

Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value

GM EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier

User Note 1:

This is a twenty-character GS1-128 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.

See External Code Source 98

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
-------	----	-------------------	---	----	------	----------

Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

1. P0405 - If either MAN04 or MAN05 is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is required.

Semantics:

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:

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.
3. 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.

DTM Date/Time Reference

Pos: 2000	Max: 10
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1307, Included: 2)

Code Name

011 Shipped
067 Current Schedule Delivery

DTM02	373	Date	X	DT	8/8	Must use
-------	-----	-------------	---	----	-----	----------

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DTM03	337	Time	X	TM	4/8	Used
-------	-----	-------------	---	----	-----	------

Description: 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)

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Loop Party Identification

Pos: 2200	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Party Identification	O	1		Must use
2300	N2	Additional Name Information	O	2		Used
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location	O	1		Used

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1524, Included: 3)

Code Name

SF Ship From
ST Ship To
VN Vendor

N102	93	Name	X	AN	1/60	Used
------	----	-------------	---	----	------	------

Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
------	----	--------------------------------------	---	----	-----	------

Description: Code designating the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 254, Included: 3)

Code Name

91 Assigned by Seller or Seller's Agent
92 Assigned by Buyer or Buyer's Agent
UL Global Location Number (GLN)

Description:

Global Location Number (GLN)

A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

See Code Source 583

N104	67	Identification Code	X	AN	2/80	Used
------	----	----------------------------	---	----	------	------

Description: Code identifying a party or other code

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

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.

N2 Additional Name Information

Pos: 2300	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	O	AN	1/60	Used
		Description: Free-form name				

N3 Party Location

Pos: 2400	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 2500	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	X	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	X	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

Loop Order

Pos: 0100 Repeat:
 200000
Mandatory
Loop: HL Elements: N/A

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0500	PRF	Purchase Order Reference	O	1		Used
1100	TD1	Carrier Details (Quantity and Weight)	O	20		Used
1500	REF	Reference Information	O	>1		Used
2200		Loop N1	O		200	Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		Description: 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	Must use
		Description: 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	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code List Summary (Total Codes: 250, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		O	Order			

PRF Purchase Order Reference

Pos: 0500	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	Packaging Code	O	AN	3/5	Used

Description: 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

Code List Summary - Part 1/2 (Total Codes: 157, Included: 14)

Code Name

- AMP Ampoule
- BAG Bag
- BIN Bin
- BOT Bottle
- BOX Box
- BXI Box, with inner container
- CAS Case
- CYL Cylinder
- DRM Drum
- JAR Jar
- KIT Kit
- TBN Tote Bin
- TRY Tray
- VIL Vial

Code List Summary - Part 2/2 (Total Codes: 58, Included: 13)

Code Name

- 01 Aluminum
- 19 Cloth or Fabric
- 25 Corrugated or Solid

User Note 1:

Corrugated or solid packaging does not require repackaging for shipment

- 49 Insulated
- 52 Iron or Steel
- 76 Paper
- 79 Plastic
- 85 Rubber
- 86 Foam

Description: *In packaging, a cushioning material used to reduce shock and vibration or abrasion*

- 94 Wood

Code Name

- 95 Single Wall Corrugated Board
Description: *The structure formed by one corrugated inner member between two flat facings; also known as double face*
- 96 Double Wall Corrugated Board
Description: *The structure formed by three flat facings and two intermediate corrugated members*
- 97 Triple Wall Corrugated Board
Description: *The structure formed by four flat facings and three intermediate corrugated members*

TD102 80 **Lading Quantity** X N0 1/7 Used
Description: Number of units (pieces) of the lading commodity

TD106 187 **Weight Qualifier** O ID 1/2 Used
Description: Code defining the type of weight

Code List Summary (Total Codes: 53, Included: 1)

Code Name

G Gross Weight

User Note 1:

This is the gross weight of the order

TD107 81 **Weight** X R 1/10 Used
Description: Numeric value of weight

TD108 355 **Unit or Basis for Measurement Code** X ID 2/2 Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code List Summary (Total Codes: 903, Included: 4)

Code Name

GR Gram

KG Kilogram

LB Pound

OZ Ounce - Av

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

REF Reference Information

Pos: 1500 Max: >1
 Detail - Optional
 Loop: HL Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use				
<p>Description: Code qualifying the Reference Identification</p> <p>Code List Summary (Total Codes: 1813, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number
<u>Code</u>	<u>Name</u>									
BM	Bill of Lading Number									
REF02	127	Reference Identification	X	AN	1/80	Must use				
<p>Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</p>										

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Loop Party Identification

Pos: 2200	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Party Identification	O	1		Used
2300	N2	Additional Name Information	O	2		Used
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location	O	1		Used

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1524, Included: 3)

Code Name

SF Ship From
ST Ship To
VN Vendor

N102	93	Name	X	AN	1/60	Used
------	----	-------------	---	----	------	------

Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
------	----	--------------------------------------	---	----	-----	------

Description: Code designating the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 254, Included: 3)

Code Name

91 Assigned by Seller or Seller's Agent
92 Assigned by Buyer or Buyer's Agent
UL Global Location Number (GLN)

Description:

Global Location Number (GLN)

A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

See Code Source 583

N104	67	Identification Code	X	AN	2/80	Used
------	----	----------------------------	---	----	------	------

Description: Code identifying a party or other code

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.
2. R0203 - At least one of N102 or N103 is required.

N2 Additional Name Information

Pos: 2300	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	O	AN	1/60	Used
		Description: Free-form name				

N3 Party Location

Pos: 2400	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 2500	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	X	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	X	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.
2. C0704 - If N407 is present, then N404 is required.
3. E0207 - Only one of N402 or N407 may be present.

Loop Tare

Pos: 0100	Repeat: 200000
Optional	
Loop: HL	Elements: N/A

User Option (Usage): Used

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	O	1		Used
1900	MAN	Marks and Numbers Information	O	>1		Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		Description: 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	Must use
		Description: 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	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code List Summary (Total Codes: 250, Included: 1)				
		Code Name				
		T				Shipping Tare

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

Code List Summary (Total Codes: 30, Included: 5)

Code Name

AA EAN.UCC Serial Shipping Container Code (SSCC)

User Note 1:

This is an eighteen-character GS1-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 98

E1 Electronic Product Code (ePC) Serial Shipping Container Code (SSCC)

Description: Trade Item with ePC tag marked with SSCC value

E2 Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC)

Description: Trade Item with dual marking for barcode and ePC, with SSCC value

E3 Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI)

Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value

GM EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier

User Note 1:

This is a twenty-character GS1-128 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. See External Code Source 98

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
-------	----	-------------------	---	----	------	----------

Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

1. C0605 - If MAN06 is present, then MAN05 is required.
2. P0405 - If either MAN04 or MAN05 is present, then the other is required.

Semantics:

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.

Loop Pack

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	O	1		Used
0300	SN1	Item Detail (Shipment)	O	1		Used
0500	PRF	Purchase Order Reference	O	1		Used
1500	REF	Reference Information	O	>1		Used
1900	MAN	Marks and Numbers Information	O	>1		Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		Description: 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	Must use
		Description: 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	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code List Summary (Total Codes: 250, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		P	Pack			

LIN Item Identification

Pos: 0200	Max: 1
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification	O	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

*A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

*An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

*A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

UP GTIN UCC - 12 Digit Data Structure

Description:

*A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN03	234	Product/Service ID	M	AN	1/48	Must use
-------	-----	---------------------------	---	----	------	----------

Description: Identifying number for a product or service

LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

UP GTIN UCC - 12 Digit Data Structure

Description:

A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN05	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

Description: Identifying number for a product or service

LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

*A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

*An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

*A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

UP GTIN UCC - 12 Digit Data Structure

Description:

*A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN07	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

Description: Identifying number for a product or service

LIN08	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

*A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item

Code Name

*Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

UP GTIN UCC - 12 Digit Data Structure

Description:

A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN09	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

Pos: 0300	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN101	350	Assigned Identification	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SN102	382	Number of Units Shipped	M	R	1/10	Must use
		Description: 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	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

Code List Summary (Total Codes: 903, Included: 37)

Code Name

AM Ampoule
 BD Bundle
 BG Bag
 BO Bottle
 BX Box
 CA Case
 CL Cylinder
 CT Carton
 DR Drum
 DZ Dozen
 EA Each
 GA Gallon
 GR Gram
 KG Kilogram
 KT Kit
 LB Pound
 LT Liter
 MC Microgram
 ME Milligram
 ML Milliliter
 MM Millimeter
 MR Meter
 OZ Ounce - Av

<u>Code</u>	<u>Name</u>
PK	Package
PL	Pallet/Unit Load
PR	Pair
QT	Quart
RL	Roll
RM	Ream
SF	Square Foot
SH	Sheet
SL	Sleeve
SM	Square Meter
TB	Tube
TY	Tray
VI	Vial
YD	Yard

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.
2. SN105 is quantity ordered.

PRF Purchase Order Reference

Pos: 0500	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
PRF02	328	Release Number	O	AN	1/30	Used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction				
PRF04	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
PRF06	367	Contract Number	O	AN	1/30	Used
		Description: Contract number				

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

REF Reference Information

Pos: 1500	Max: >1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1813, Included: 4)

Code Name

BG Beginning Serial Number

User Note 1:

Use REF04-C040 Code EG Ending Serial Number to complete the range.

LT Lot Number

SE Serial Number

X7 Batch Sequence Number

User Note 1:

Identifies the Beginning Lot Number for the range.

Use REF04-C040 Code FK Finish Lot Number which identifies the Ending Lot Number of the range.

REF02	127	Reference Identification	X	AN	1/80	Used
-------	-----	--------------------------	---	----	------	------

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

Description: A free-form description to clarify the related data elements and their content

REF04	C040	Reference Identifier	O	Comp		Used
-------	------	----------------------	---	------	--	------

Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

REF04-01	128	Reference Identification Qualifier	M	ID	2/3	Must use
----------	-----	------------------------------------	---	----	-----	----------

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1813, Included: 2)

Code Name

EG Ending Serial Number

User Note 1:

Only used with code BG Beginning Serial Number range value in REF01.

Code Name

FK Finish Lot Number

User Note 1:

Identifies the Ending Lot Number of the range.

Only used with code X7 Batch Sequence Number which identifies the Beginning Lot Number of the range value in REF01.

REF04-02	127	Reference Identification	M	AN	1/80	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

Code List Summary (Total Codes: 30, Included: 5)

Code Name

AA EAN.UCC Serial Shipping Container Code (SSCC)

User Note 1:

This is an eighteen-character GS1-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 98

E1 Electronic Product Code (ePC) Serial Shipping Container Code (SSCC)

Description: Trade Item with ePC tag marked with SSCC value

E2 Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC)

Description: Trade Item with dual marking for barcode and ePC, with SSCC value

E3 Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI)

Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value

GM EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier

User Note 1:

This is a twenty-character GS1-128 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. See External Code Source 98

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
-------	----	-------------------	---	----	------	----------

Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

1. C0605 - If MAN06 is present, then MAN05 is required.
2. P0405 - If either MAN04 or MAN05 is present, then the other is required.

Semantics:

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.

Loop Item

Pos: 0100 Repeat:
 200000
Mandatory
Loop: HL Elements: N/A

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	O	1		Used
0300	SN1	Item Detail (Shipment)	O	1		Used
0500	PRF	Purchase Order Reference	O	1		Used
0700	PID	Product/Item Description	O	200		Used
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		Used
1500	REF	Reference Information	O	>1		Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		Description: 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	Must use
		Description: 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	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code List Summary (Total Codes: 250, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		I	Item			

LIN Item Identification

Pos: 0200	Max: 1
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
-------	-----	-------------------------------------	---	----	-----	----------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

UP GTIN UCC - 12 Digit Data Structure

Description:

A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN03	234	Product/Service ID	M	AN	1/48	Must use
-------	-----	---------------------------	---	----	------	----------

Description: Identifying number for a product or service

LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

UP GTIN UCC - 12 Digit Data Structure

Description:

A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN05	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

Description: Identifying number for a product or service

LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

*A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

*An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

*A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

UP GTIN UCC - 12 Digit Data Structure

Description:

*A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN07	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

Description: Identifying number for a product or service

LIN08	235	Product/Service ID Qualifier	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 537, Included: 6)

Code Name

EN GTIN EAN/UCC - 13 Digit Data Structure

Description:

*A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

EO GTIN EAN/UCC - 8 Digit Data Structure

Description:

An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item

Code Name

*Reference, and Check Digit used to identify trade items.
SEE CODE SOURCE 41*

IN Buyer's Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

UK GTIN 14-digit Data Structure

Description:

A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items.

SEE CODE SOURCE 41

UP GTIN UCC - 12 Digit Data Structure

Description:

A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items.

SEE CODE SOURCE 41

VN Vendor's (Seller's) Item Number

User Note 1:

This will be phased out in future versions and will be replaced with GTIN (Global Trade Item Number).

LIN09	234	Product/Service ID	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

Pos: 0300 Max: 1
Detail - Optional
Loop: HL Elements: 4

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN101	350	Assigned Identification	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SN102	382	Number of Units Shipped	M	R	1/10	Must use
		Description: 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	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

Code List Summary (Total Codes: 903, Included: 36)

Code Name

- AM Ampoule
- BD Bundle
- BG Bag
- BO Bottle
- BX Box
- CA Case
- CL Cylinder
- CT Carton
- DR Drum
- DZ Dozen
- EA Each
- GA Gallon
- GR Gram
- KG Kilogram
- KT Kit
- LB Pound
- LT Liter
- MC Microgram
- ME Milligram
- ML Milliliter
- MM Millimeter
- MR Meter
- OZ Ounce - Av

<u>Code</u>	<u>Name</u>
PK	Package
PR	Pair
QT	Quart
RL	Roll
RM	Ream
SF	Square Foot
SH	Sheet
SL	Sleeve
SM	Square Meter
TB	Tube
TY	Tray
VI	Vial
YD	Yard

SN105 380 **Quantity** X R 1/15 Used

Description: Numeric value of quantity

Syntax Rules:

- 1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

- 1. SN101 is the ship notice line-item identification.
- 2. SN105 is quantity ordered.

PRF Purchase Order Reference

Pos: 0500	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
PRF02	328	Release Number	O	AN	1/30	Used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction				
PRF04	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
PRF06	367	Contract Number	O	AN	1/30	Used
		Description: Contract number				

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

PID Product/Item Description

Pos: 0700	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To describe a product or process in coded or free-form format

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code List Summary (Total Codes: 3, Included: 1)

Code Name

F Free-form

User Note 1:

The product description will be found in PID05.

PID05	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. C0703 - If PID07 is present, then PID03 is required.
3. C0804 - If PID08 is present, then PID04 is required.
4. C0905 - If PID09 is present, then PID05 is required.
5. R0405 - At least one of PID04 or PID05 is required.

Semantics:

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.

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

Pos: 1400	Max: 5
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD401	152	Special Handling Code	X	ID	2/3	Used

Description: Code specifying special transportation handling instructions

Code List Summary (Total Codes: 579, Included: 9)

Code Name

AJ	Do Not Stack
FG	Flammable Gas
FL	Flammable
FR	Fragile - Handle with Care
NW	In Case of Fire Do Not Use Water
PG	Poisonous Gas
DNF	Do Not Freeze
	Description: <i>Specifies that the temperature of a shipment must not go below the freezing point during transit</i>
HAZ	Hazardous Cargo
MRF	Refrigerated

Syntax Rules:

1. C0203 - If TD402 is present, then TD403 is required.
2. R010204 - At least one of TD401, TD402 or TD404 is required.

Semantics:

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.

REF Reference Information

Pos: 1500	Max: >1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1813, Included: 4)

Code Name

BG Beginning Serial Number

User Note 1:

Use REF04-C040 Code EG Ending Serial Number to complete the range.

LT Lot Number

SE Serial Number

X7 Batch Sequence Number

User Note 1:

Identifies the Beginning Lot Number for the range.

Use REF04-C040 Code FK Finish Lot Number which identifies the Ending Lot Number of the range.

REF02	127	Reference Identification	X	AN	1/80	Must use
-------	-----	--------------------------	---	----	------	----------

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

Description: A free-form description to clarify the related data elements and their content

REF04	C040	Reference Identifier	O	Comp		Used
-------	------	----------------------	---	------	--	------

Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

REF04-01	128	Reference Identification Qualifier	M	ID	2/3	Must use
----------	-----	------------------------------------	---	----	-----	----------

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1813, Included: 2)

Code Name

EG Ending Serial Number

User Note 1:

Only used with code BG Beginning Serial Number range value in REF01.

Code Name

FK Finish Lot Number

User Note 1:

Identifies the Ending Lot Number of the range.

Only used with code X7 Batch Sequence Number which identifies the Beginning Lot Number of the range value in REF01.

REF04-02	127	Reference Identification	M	AN	1/80	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	O	R	1/10	Used
		Description: 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 beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.18E2 Fifth occurrence of value beinghashed.-----1873 Hash Total				

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

Pos: 0200	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

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