

856 Ship Notice/Manifest

X12/V4010/856 : 856 Ship Notice/Manifest

Version: 3.1 Final

Company: Insight Direct USA, Inc.
Modified: 4/22/2025

856 Ship Notice/Manifest

Functional Group=SH

Purpose: 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</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use
040	DTM	Date/Time Reference	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>
<u>LOOP ID - HL</u>					<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	M	1			Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1			Must use
150	REF	Reference Identification	O	1			Used
<u>LOOP ID - N1</u>					<u>2</u>		
220	N1	Name	M	>1			Must use
230	N2	Additional Name Information	O	2			Used
240	N3	Address Information	M	1			Must use
250	N4	Geographic Location	M	1			Must use
<u>LOOP ID - HL</u>					<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	M	1			Must use
050	PRF	Purchase Order Reference	M	1			Must use
<u>LOOP ID - HL</u>					<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	O	1			Used
060	PO4	Item Physical Details	C	1			Used
150	REF	Reference Identification	C	1			Used
190	MAN	Marks and Numbers	C	>1			Used
<u>LOOP ID - HL</u>					<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	O	1			Used
060	PO4	Item Physical Details	C	1			Used
150	REF	Reference Identification	C	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>
190	MAN	Marks and Numbers	C	>1			Used
<u>LOOP ID - HL</u>					<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	M	1			Must use
020	LIN	Item Identification	M	1			Must use
030	SN1	Item Detail (Shipment)	M	1			Must use
040	SLN	Subline Item Detail	O	1000			Used
150	REF	Reference Identification	C	>1			Used
200	DTM	Date/Time Reference	O	2			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>
010	CTT	Transaction Totals	M	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

ST Transaction Set Header

Pos: 010	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: 298, Included: 1)

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

BSN Beginning Segment for Ship Notice

Pos: 020	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: 65, Included: 1)						
Code Name						
00 Original						
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						
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	M	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: 61, Included: 1)						
Code Name						
0001 Shipment, Order, Packaging, Item						

Insight Notes:

Only one shipment is allowed per 856.
 Only one Insight PO is allowed per 856.

Example:

BSN*00*020609336001*20060425*2210*0001~

DTM Date/Time Reference

Pos: 040	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: 1112, Included: 1)

Code Name

011 Shipped

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

DTM03	337	Time	M	TM	4/8	Must use
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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)

DTM04	623	Time Code	M	ID	2/2	Must use
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Description: 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

Code List Summary (Total Codes: 51, Included: 5)

Code Name

- CT Central Time
- ET Eastern Time
- MT Mountain Time
- PT Pacific Time
- UT Universal Time Coordinate

Example:

*DTM*011*20060425*1015*ET~*

HL Hierarchical Level

Pos: 010	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: 170, Included: 1)						
<u>Code</u> <u>Name</u>						
S Shipment						

Example:

HL*1**S~

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Must use

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	M	ID	1/2	Must use

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

Code List Summary (Total Codes: 215, Included: 1)

Code Name

2 Standard Carrier Alpha Code (SCAC)

Insight Notes:

This is not required if TD512 = ZZ

TD503	67	Identification Code	M	AN	2/80	Must use
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Description: Code identifying a party or other code

Insight Notes: *Must use if product was physically shipped.*

This is not required if TD512 = ZZ.

TD505	387	Routing	M	AN	1/35	Must use
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Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

TD512	284	Service Level Code	M	ID	2/2	Must use
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Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier

Code List Summary (Total Codes: 66, Included: 16)

Code Name

- 3D Three Day Service
- CG Ground
- CX Express Service
- IX Express Service - Worldwide
- ND Next Day Air
- NM Next Morning
- ON Overnight
- PB Priority Mail
- PI Priority Mail Insured
- SA Same Day
- SC Second Day Air
- SD Saturday
- SE Second Day
- SG Standard Ground
- ST Standard Class

Code Name
ZZ Mutually Defined

Insight Notes:
Use this for deliveries with no physical carrier. (Warranties and Software License no-media)

Insight Notes:
If there is no physical shipment (no carrier), TD502 and TD503 are not used. TD512 must be set to 'ZZ'.

Example:

SHIPPABLE
TD5**2**FDE**FedEx Ground*****CG~

NON-SHIPPABLE(Warranty or License)
TD5*****ZZ~

REF Reference Identification

Pos: 150	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: 1503, Included: 1)

Code Name

BM Bill of Lading Number

REF02	127	Reference Identification	M	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Example:

*REF*BM*03291148~*

N1 Name

Pos: 220	Max: >1
Detail - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: 1312, Included: 2)

Code Name

SF Ship From

Insight Notes:

This is the actual location the product was shipped from.

ST Ship To

N102	93	Name	M	AN	1/60	Must use
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Description: Free-form name

N103	66	Identification Code Qualifier	O	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 215, Included: 2)

Code Name

92 Assigned by Buyer or Buyer's Agent

93 Code assigned by the organization originating the transaction set

N104	67	Identification Code	O	AN	2/80	Used
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Description: Code identifying a party or other code

Insight Notes: *If N101 = ST, this code should be the code that was sent on the 850.*

Example:

N1*SF*VENDOR NAME*93*12345
 N1*ST*CUSTOMER NAME*92*0000123456~

N2 Additional Name Information

Pos: 230	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

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				

Example:

N2*ADDITIONAL NAME INFO~

N3 Address Information

Pos: 240	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use

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				

Example:

*N3*STREET ADDRESS1*STREET ADDRESS2~*

N4 Geographic Location

Pos: 250	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	M	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	M	ID	2/3	Must use
		Description: Code identifying the country				

Example:

N4*CITY*ST*10011*USA~

HL Hierarchical Level

Pos: 010	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	M	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: 170, Included: 1)						
<u>Code</u> <u>Name</u>						
O Order						

Example:

HL*2*1*O~

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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				
PRF04	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
PRF07	92	Purchase Order Type Code	M	ID	2/2	Must use

Description: Code specifying the type of Purchase Order

Insight Notes: *This must match the PO type on the 850.*

Code List Summary (Total Codes: 69, Included: 2)

Code Name

- DS Dropship
- SA Stand-alone Order

Insight Notes:

Only one Insight PO is allowed per 856.

Example:

*PRF*4999999***20060513***DS~*

HL Hierarchical Level

Pos: 010	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	M	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: 170, Included: 1)						
<u>Code</u> <u>Name</u>						
T Shipping Tare						

Insight Notes:

This level is mandatory if shipping on pallets. If pallets are not used, do not send this HL loop.

Example:

HL*3*2*T~

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Conditional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

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>
PO402	357	Size	M	R	1/8	Must use
		Description: Size of supplier units in pack				
PO403	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: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		EA	Each			
PO405	187	Weight Qualifier	M	ID	1/2	Must use
		Description: Code defining the type of weight				
		Code List Summary (Total Codes: 51, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		G	Gross Weight			
PO406	384	Gross Weight per Pack	M	R	1/9	Must use
		Description: Numeric value of gross weight per pack				
PO407	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: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		LB	Pound			
PO410	82	Length	M	R	1/8	Must use
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	M	R	1/8	Must use
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	M	R	1/8	Must use
		Description: Vertical dimension of an object measured when the object is in the upright position				
PO413	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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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: 794, Included: 1)

<u>Code</u>	<u>Name</u>
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IN	Inch
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Example:

*PO4**36*EA**G*32*LB***48*48*60*IN~*

REF Reference Identification

Pos: 150	Max: 1
Detail - Conditional	
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: 1503, Included: 1)

Code Name

2I Tracking Number

REF02	127	Reference Identification	M	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Example:

REF*2I*12345678~

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Conditional	
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: 20, Included: 1)

Code Name

GM SSCC-18 and Application Identifier

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Description: Marks and numbers used to identify a shipment or parts of a shipment

Example:

MAN*GM*850440000000000001~

HL Hierarchical Level

Pos: 010	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	M	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: 170, Included: 1)						
<u>Code</u> <u>Name</u>						
P Pack						

Insight Notes:

This level is mandatory if physical product is shipped in cartons.

Example:

HL*4*3*P~

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Conditional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

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>
PO402	357	Size	M	R	1/8	Must use
		Description: Size of supplier units in pack				
PO403	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: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		EA	Each			
PO405	187	Weight Qualifier	M	ID	1/2	Must use
		Description: Code defining the type of weight				
		Code List Summary (Total Codes: 51, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		G	Gross Weight			
PO406	384	Gross Weight per Pack	M	R	1/9	Must use
		Description: Numeric value of gross weight per pack				
PO407	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: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		LB	Pound			
PO410	82	Length	M	R	1/8	Must use
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	M	R	1/8	Must use
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	M	R	1/8	Must use
		Description: Vertical dimension of an object measured when the object is in the upright position				
PO413	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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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: 794, Included: 1)

<u>Code</u>	<u>Name</u>
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IN	Inch
----	------

Example:

*PO4**6*EA**G*2*LB***5*6*7*IN~*

REF Reference Identification

Pos: 150	Max: 1
Detail - Conditional	
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: 1503, Included: 1)

Code Name

2I Tracking Number

REF02	127	Reference Identification	M	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Example:

REF*2I*12345678~

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Conditional	
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: 20, Included: 1)

Code Name

GM SSCC-18 and Application Identifier

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Description: Marks and numbers used to identify a shipment or parts of a shipment

Example:

*MAN*GM*850440000000000001~*

HL Hierarchical Level

Pos: 010	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	M	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: 170, Included: 1)						
<u>Code</u> <u>Name</u>						
I Item						

Insight Notes:

This level is required.

Example:

HL*5*4*1~

LIN Item Identification

Pos: 020	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 5

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	Assigned Identification	M	AN	1/20	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

Insight Notes: This is the line item number from the original Purchase Order. This number must match the line item number on the original purchase order.

LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 477, Included: 1)

Code Name

BP Buyer's Part Number

LIN03	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

LIN04	235	Product/Service ID Qualifier	M	ID	2/2	Must use
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 477, Included: 1)

Code Name

VP Vendor's (Seller's) Part Number

LIN05	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

Example:

LIN*00001*BP*5597676*VP*PY993UA#ABA~

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

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>
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
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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: 794, Included: 1)

Code Name

EA Each

Example:

SN1**3*EA~

SLN Subline Item Detail

Pos: 040 Max: 1000
 Detail - Optional
 Loop: HL Elements: 20

User Option (Usage): Used

Purpose: To specify product subline detail item 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>
SLN01	350	Assigned Identification	M	AN	1/20	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

Insight Notes: This is the line item number from the original Purchase Order. This number must match the line item number on the original purchase order.

SLN03	662	Relationship Code	M	ID	1/1	Must use
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Description: Code indicating the relationship between entities

Code List Summary (Total Codes: 5, Included: 1)

Code Name

A Add

SLN04	380	Quantity	M	R	1/15	Must use
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Description: Numeric value of quantity

Insight Notes: The quantity in the SLN segment will always be '1' since we'll be receiving individual SLN segments for the quantity sent per line-item

SLN05	C001	Composite Unit of Measure	M	Comp		Must use
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Description: To identify a composite unit of measure

(See Figures Appendix for examples of use)

SLN05-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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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: 794, Included: 1)

Code Name

EA Each

SLN09	235	Product/Service ID Qualifier	M	ID	2/2	Must use
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 477, Included: 1)

Code Name

SN Serial Number

SLN10	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

SLN11	235	Product/Service ID Qualifier	O	ID	2/2	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code List Summary (Total Codes: 477, Included: 1)</p> <p>Code Name</p> <p>IM International Mobile Equipment Identity (IMEI)</p>				
SLN12	234	Product/Service ID	O	AN	1/48	Used
		<p>Description: Identifying number for a product or service</p>				
SLN13	235	Product/Service ID Qualifier	O	ID	2/2	Used
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code List Summary (Total Codes: 477, Included: 1)</p> <p>Code Name</p> <p>ME Media Access Control Address (MAC)</p>				
SLN14	234	Product/Service ID	O	AN	1/48	Used
		<p>Description: Identifying number for a product or service</p>				
SLN15	235	Product/Service ID Qualifier	O	ID	2/2	Used
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code List Summary (Total Codes: 478, Included: 1)</p> <p>Code Name</p> <p>AS Asset Tag</p>				
SLN16	234	Product/Service ID	O	AN	1/48	Used
		<p>Description: Identifying number for a product or service</p>				
SLN17	235	Product/Service ID Qualifier	O	ID	2/2	Used
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code List Summary (Total Codes: 478, Included: 1)</p> <p>Code Name</p> <p>LI License Number</p>				
SLN18	234	Product/Service ID	O	AN	1/48	Used
		<p>Description: Identifying number for a product or service</p>				
SLN19	235	Product/Service ID Qualifier	O	ID	2/2	Used
		<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>Code List Summary (Total Codes: 478, Included: 1)</p> <p>Code Name</p> <p>LE Lease Partner</p>				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN20	234	Product/Service ID	O	AN	1/48	Used
		Description: Identifying number for a product or service				
SLN21	235	Product/Service ID Qualifier	O	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: 477, Included: 1)				
		<u>Code Name</u>				
		L1 Lease Start Date				
SLN22	234	Product/Service ID	O	AN	1/48	Used
		Description: Identifying number for a product or service				
SLN23	235	Product/Service ID Qualifier	O	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: 477, Included: 1)				
		<u>Code Name</u>				
		L2 Lease End Date				
SLN24	234	Product/Service ID	O	AN	1/48	Used
		Description: Identifying number for a product or service				

Insight Notes:

For part numbers that include Serial Number Attribute Data, please provide the serial number along with its attribute data in the line-level SLN segment.

*When transmitting the attribute data in the SLN segment, please exclude sending the line-item REF segment (REF*SE) serial number.*

User Note 2:

Below is an example line item for a serial number attribute part ; for a line item with a quantity of 3 , 3 SLN segments would be sent with each of the serial numbers specific attribute data.

LIN~000010~BP~11T4SGBX00~VP~11T4SGBX00

SN1~3~3~EA

SLN~00010~~A~1~EA~~~~SN~MZ00BWD1~IM~IMEINUM1~ME~MACNUM1~AS~ASSETNUM1~LI~LICENSEN
UM1~LE~LEASEPAR1~L1~20240101~L2~20250101

SLN~00010~~A~1~EA~~~~SN~MZ00BWD2~IM~IMEINUM2~ME~MACNUM2~AS~ASSETNUM2~LI~LICENSEN
UM2~LE~LEASEPAR2~L1~20240201~L2~20250201

SLN~00010~~A~1~EA~~~~SN~MZ00BWD3~IM~IMEINUM~3ME~MACNUM3~AS~ASSETNUM3~LI~LICENSEN
UM3~LE~LEASEPAR3~L1~20240301~L2~20250301

REF Reference Identification

Pos: 150	Max: >1
Detail - Conditional	
Loop: HL	Elements: 2

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: 1503, Included: 3)

Code Name

BB Authorization Number

Insight Notes:

Must be used for Warranty Orders ; sent on the original PO.

SE Serial Number

Insight Notes:

*Must be used if the product is serialized.
Must be used for Warranty Orders.*

PLA Product Licensing Agreement Number

Insight Notes:

Must be used for Software License Orders

REF02	127	Reference Identification	M	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Insight Notes:

There can only be one Authorization Number (REF01=BB) and one Product Licensing Agreement Number (REF01=PLA) per line item.

There can be multiple serial numbers (REF01=SE) per line item number.

User Note 2:

*For part numbers that don't include Serial Number Attribute Data (SLN), please provide the serial number in the line-item REF (REF*SE) segment.*

*When transmitting the attribute data in the SLN segment, please exclude sending the line-item REF segment (REF*SE) serial number.*

Example:

If a line item has a quantity of 3 and the product is serialized, 3 REF segments should be sent.

*REF*SE*2UA6140H4V~*

*REF*SE*2UA6140H3Z~*

*REF*SE*2UA6140H5A~*

If the line item has a quantity of 5, and is a software license, there should only be one authorization number and one product license agreement number sent for that line item.

*REF*BB*123456LKP~*

*REF*PLA*9999234553DWE~*

DTM Date/Time Reference

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

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: 1112, Included: 2)

<u>Code</u>	<u>Name</u>
227	Lease Term Start
228	Lease Term End

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

Insight Notes:

This segment is used for parts that have network ports

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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

Example: CTT*402~

SE Transaction Set Trailer

Pos: 020	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				