

Insight 850 Spec Changes – 12/22/2006 Version 2.2

- TD512 Changes:
 - Removed codes: G2, PC, R5
 - Added codes: PI, SE

Insight 856 Spec Changes – Version 2.1

- Removed BSN01 code of 05 – Replace.
- Removed BSN05 code of 0004 – Shipment, order item
- Added DTM03 and DTM04 – time and timecode.
- Changed codes on TD512.
- Removed TD1 segment.
- Added shipment level REF for bill of lading.
- Removed Bill-To party.
- Added Order Type code in PRF07.
- Removed PRF05 and PRF06.
- Added Tare level.
- Added MAN segment.
- Removed PO4_01 – Pack.
- Added weight, length, width, height in PO4. Weight used to show up in TD1 which was eliminated.
- Removed all different tracking numbers and will only use qualifier '2I' in the REF segment.
- LIN material qualifiers are now static and only use BP and VP. Codes of MF, MG and VN have been removed.

Insight 856 Spec Changes – 09/21/2022 Version 3.0

- Updated 856 spec mandatory/conditional status against the 856 map to make it abit more accurate along with other changes that are noted.

COVER PAGE BEFORE

856 Ship Notice/Manifest

X12/V4010/856: 856 Ship Notice/Manifest

Version: 2.2 Final

Author: Insight Direct USA, Inc.
Modified: 12/22/2006



856 Ship Notice/Manifest

X12/V4010/856 : 856 Ship Notice/Manifest

Version: 3.0 Final

Company: Insight Direct USA, Inc.
Modified: 8/25/2022

COVER PAGE AFTER

ISA\GS IDS BEFORE

		<u>Code</u>	<u>Name</u>		
<i>Insight Production Id Qualifier</i>					
ISA08	I07		Interchange Receiver ID	M	A
Description: Identification code published by the receiver used by the sender as their sending ID, thus other parties receiving ID to route data to them					
Insight Note : <i>Test ID: 6309246701T Production ID: 6309246701</i>					
ISA09	I08		Interchange Date	M	[

ISA GS IDS AFTER – Removed options to write out ISA\GS

BSN05 BEFORE

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	Used
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 Name 0001 Shipment, Order, Packaging, Item						

BSN05 AFTER

- 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						

DTM BEFORE

DTM Date/Time Reference

Pos: 040 Max: 10
Heading - Optional
Loop: N/A Elements: 4

User Option (Usage): Used

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				
		<u>Code</u> <u>Name</u>				
		011 Shipped				
DTM02	373	Date	X	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				
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)				
DTM04	623	Time Code	O	ID	2/2	Used
		Description: Code identifying the time. In accordance with International Standards				

DTM AFTER

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:

<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: 1)

Code Name

011 Shipped

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

Description: Date expressed as CCYYMMDD

DTM03	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)

DTM04	623	Time Code	M	ID	2/2	Must use
-------	-----	-----------	---	----	-----	----------

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

TD5 BEFORE

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120 Max: 12
Detail - Optional
Loop: HL Elements: 4

User Option (Usage): Must use

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

TD512	284	Service Level Code	X	ID	2/2	Must use
Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier						
<u>Code</u> <u>Name</u>						
3D Three Day Service						
CG Ground						

TD5 AFTER

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

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

REF BOL BEFORE

REF Reference Identification

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

User Option (Usage): Used

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 Name

BM Bill of Lading Number

REF02	127	Reference Identification	X	AN	1/30	Used
-------	-----	---------------------------------	---	----	------	------

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

REF BOL AFTER

REF Reference Identification

Pos: 150	Max: 1
Detail - Optional	
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				
<p>Description: Code qualifying the Reference Identification</p> <p>Code List Summary (Total Codes: 1503, Included: 1)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> </tbody> </table>							Code	Name	BM	Bill of Lading Number
Code	Name									
BM	Bill of Lading Number									
REF02	127	Reference Identification	M	AN	1/30	Must use				
<p>Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</p>										

Example:

REF*BM*03291148~

N1 BEFORE

N1 Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

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								
<p>Description: Code identifying an organizational entity, a physical location, property or an individual</p> <p>Insight Note : <i>Ship to and Ship From are both required.</i></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td colspan="2">Insight Note : <i>This is the actual location the product was shipped from.</i></td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> </tbody> </table>							Code	Name	SF	Ship From	Insight Note : <i>This is the actual location the product was shipped from.</i>		ST	Ship To
Code	Name													
SF	Ship From													
Insight Note : <i>This is the actual location the product was shipped from.</i>														
ST	Ship To													
N102	93	Name	X	AN	1/60	Used								
<p>Description: Free-form name</p>														

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 Name						
92 Assigned by Buyer or Buyer's Agent						
Insight Note :						
<i>Used with the Ship To (N101 = ST)</i>						
93 Code assigned by the organization originating the transaction set						
Insight Note :						
<i>Used with the Ship From (N101 = SF)</i>						
N104	67	Identification Code	X	AN	2/80	Used
Description: Code identifying a party or other code						
Insight Note : <i>If N101 = ST, this code should be the code that was sent on the 850.</i>						

N1 AFTER

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:

<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: 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
------	----	-------------	---	----	------	----------

Description: Free-form name

N103	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: 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	M	AN	2/80	Must use
------	----	----------------------------	---	----	------	----------

Description: Code identifying a party or other code

N3 BEFORE

N3 Address Information

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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				

N3 AFTER

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 BEFORE

N4 Geographic Location

Pos: 250 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 Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

N4 AFTER

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

PRF BEFORE

PRF Purchase Order Reference

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

User Option (Usage): Must use

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	O	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
PRF07	92	Purchase Order Type Code	O	ID	2/2	Must use
		Description: Code specifying the type of Purchase Order				
		Insight Note : This must match the PO type on the 850.				
		<u>Code</u>	<u>Name</u>			
		DS	Dropship			
		SA	Stand-alone Order			

PRF AFTER

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)				
		<u>Code</u>	<u>Name</u>			
		DS	Dropship			
		SA	Stand-alone Order			

HL BEFORE

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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				
		<u>Code</u>	<u>Name</u>			
		T	Shipping Tare			

Insight Note :

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

HL AFTER

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						

P04 TARE LEVEL BEFORE

PO4 Item Physical Details

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

User Option (Usage): Must use

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	X	R	1/8	Used
Description: Size of supplier units in pack						
PO403	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						
<u>Code</u> <u>Name</u>						
EA Each						
PO405	187	Weight Qualifier	O	ID	1/2	Used
Description: Code defining the type of weight						
<u>Code</u> <u>Name</u>						
G Gross Weight						

PO405	187	Weight Qualifier	O	ID	1/2	Used
		Description: Code defining the type of weight				
		<u>Code</u> <u>Name</u>				
		G Gross Weight				
PO406	384	Gross Weight per Pack	X	R	1/9	Used
		Description: Numeric value of gross weight per pack				
PO407	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				
		<u>Code</u> <u>Name</u>				
		LB Pound				
PO410	82	Length	X	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	X	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	X	R	1/8	Used
		Description: Vertical dimension of an object measured when the object is in the upright position				

PO4 TARE LEVEL AFTER

PO4 Item Physical Details

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

User Option (Usage): Used

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

Element Summary:

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

REF TARE LEVEL BEFORE

REF Reference Identification

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

User Option (Usage): Must use

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 Name

2I Tracking Number

REF02	127	Reference Identification	X	AN	1/30	Used
-------	-----	--------------------------	---	----	------	------

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

Example:

REF TARE LEVEL AFTER

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

2I Tracking Number

REF02	127	Reference Identification	M	AN	1/30	Must use
-------	-----	--------------------------	---	----	------	----------

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

Example:

REF*2I*12345678~

HL PACK BEFORE

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>						
P Pack						

HL PACK AFTER

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>						
P Pack						

PO4 PACK LEVEL BEFORE

PO4 Item Physical Details

Detail - Optional
Loop: HL Elements: 9

User Option (Usage): Must use

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	X	R	1/8	Used
		Description: Size of supplier units in pack				
		Insight Note : <i>This is the quantity in the box.</i>				
PO403	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 Name				
		EA Each				
PO405	187	Weight Qualifier	O	ID	1/2	Must use
		Description: Code defining the type of weight				
		Code Name				
		G Gross Weight				
PO406	384	Gross Weight per Pack	X	R	1/9	Must use

PO4 PACK LEVEL AFTER

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
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 Description: Size of supplier units in pack	M	R	1/8	Must use
PO403	355	Unit or Basis for Measurement Code 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	M	ID	2/2	Must use
PO405	187	Weight Qualifier Description: Code defining the type of weight Code List Summary (Total Codes: 51, Included: 1) <u>Code</u> <u>Name</u> G Gross Weight	M	ID	1/2	Must use
PO406	384	Gross Weight per Pack Description: Numeric value of gross weight per pack	M	R	1/9	Must use
PO407	355	Unit or Basis for Measurement Code 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)	M	ID	2/2	Must use
PO410	82	Length Description: Largest horizontal dimension of an object measured when the object is in the upright position	M	R	1/8	Must use
PO411	189	Width Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position	M	R	1/8	Must use
PO412	65	Height Description: Vertical dimension of an object measured when the object is in the upright position	M	R	1/8	Must use
PO413	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use

REF PACK LEVEL BEFORE

REF Reference Identification

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

User Option (Usage): Must use

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 Name

2I Tracking Number

REF02	127	Reference Identification	X	AN	1/30	Used
-------	-----	--------------------------	---	----	------	------

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

Insight Note : For small parcel carriers, this will be the tracking number. For LTL, this will be the bill of lading or waybill number.

REF PACK LEVEL AFTER

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

2I Tracking Number

REF02	127	Reference Identification	M	AN	1/30	Must use
-------	-----	--------------------------	---	----	------	----------

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

Example:

REF*2I*12345678~

HL ITEM BEFORE

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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						
<u>Code</u> <u>Name</u>						
I Item						

HL ITEM AFTER

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>						

LIN BEFORE

LIN Item Identification

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

User Option (Usage): Must use

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	Must use
Description: Alphanumeric characters assigned for differentiation within a transaction set						
Insight Note : <i>This is the line item number from the original Purchase Order. This number must match the line item number on the original purchase order.</i>						
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 Name						
BP Buyer's Part 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	Must use
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
Code Name						
VP Vendor's (Seller's) Part Number						
LIN05	234	Product/Service ID	X	AN	1/48	Must use
Description: Identifying number for a product or service						

LIN AFTER

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
<p>Description: Alphanumeric characters assigned for differentiation within a transaction set</p> <p>Insight Notes: <i>This is the line item number from the original Purchase Order. This number must match the line item number on the original purchase order.</i></p>						
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
<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>BP Buyer's Part Number</p>						
LIN03	234	Product/Service ID	M	AN	1/48	Must use
<p>Description: Identifying number for a product or service</p>						
LIN04	235	Product/Service ID Qualifier	M	ID	2/2	Must use
<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p>						
LIN04	235	Product/Service ID Qualifier	M	ID	2/2	Must use
<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>VP Vendor's (Seller's) Part Number</p>						
LIN05	234	Product/Service ID	M	AN	1/48	Must use
<p>Description: Identifying number for a product or service</p>						

SN1 BEFORE

SN1 Item Detail (Shipment)

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

User Option (Usage): Must use

To specify line-item detail relative to shipment

SN1 AFTER

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
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						

Example:

REF ITEM BEFORE

<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						
<u>Code</u> <u>Name</u>						
BB Authorization Number						
Insight Note :						
<i>Must be used for Software License Orders if Microsoft product, or if this number was sent on the original 850.</i>						
<i>Must be used for Warranty Orders.</i>						
SE Serial Number						
Insight Note :						
<i>Must be used if the product is serialized.</i>						
<i>Must be used for Warranty Orders.</i>						
PLA Product Licensing Agreement Number						
Insight Note :						
<i>Must be used for Software License Orders</i>						
REF02	127	Reference Identification	X	AN	1/30	Used

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

REF ITEM AFTER

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: 3)

Code Name

BB Authorization Number

Insight Notes:

*sent on the original 850.
Must be used for Warranty Orders.*

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
-------	-----	--------------------------	---	----	------	----------

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

CTT BEFORE

CTT Transaction Totals

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

User Option (Usage): Used

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

CTT AFTER

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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~

Insight 856 Spec Changes – 05/30/2025 Version 3.1

- Add detail SLN segment to the EDI specifications for vendors who can send serial number attribute data like IMEI, MAC, etc.
- Also updated the comments on the REF segment related to serial number processing.

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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
-------	-----	-------------------	---	----	-----	----------

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
-------	-----	----------	---	---	------	----------

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
-------	------	---------------------------	---	------	--	----------

Description: To identify a composite unit of measure