



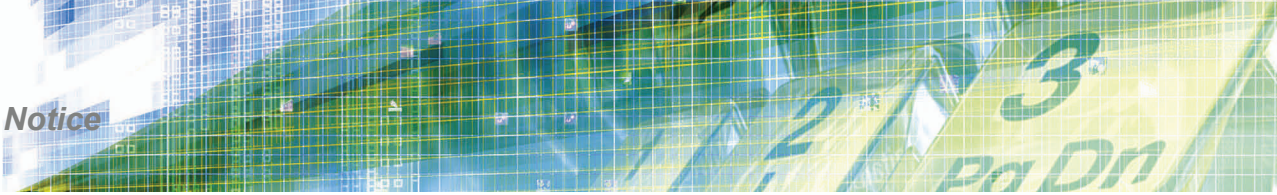
Fisher Scientific

Part of Thermo Fisher Scientific

EDI Specifications

856 - Advance Ship Notice (Customer v4010)





856

Ship Notice/Manifest- Functional Group=SH

VER. 4010

FISHER SCIENTIFIC

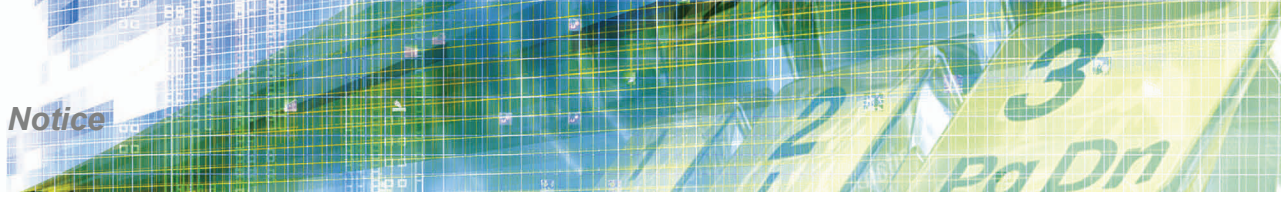
This Standard contains the format and establishes the data contents of the Fisher Scientific Customer Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. Please refer to the *EDI Services Guide* for additional information. All information contained herein is subject to change at the discretion of Fisher Scientific Company, L.L.C.

Heading:

<u>POS</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BSN	Beginning Segment for Ship Notice	M	1		
040	DTM	Date/Time Reference	O	10		

Detail:

<u>POS</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
LOOP ID - HL					200000	
010	HL	Hierarchical Level	M	1		
020	LIN	Item Identification	O	1		
030	SN1	Item Detail (Shipment)	O	1		
040	SLN	Subline Item Detail	O	1000		
050	PRF	Purchase Order Reference	O	1		
070	PID	Product/Item Description	O	200		
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
150	REF	Reference Identification		>1		
LOOP ID - CLD					200	
170	CLD	Load Detail	O	1		
LOOP ID - N1					200	
220	N1	Name	O	1		
230	N2	Additional Name Information	O	2		
240	N3	Address Information	O	2		
250	N4	Geographic Location	O	1		



Summary:

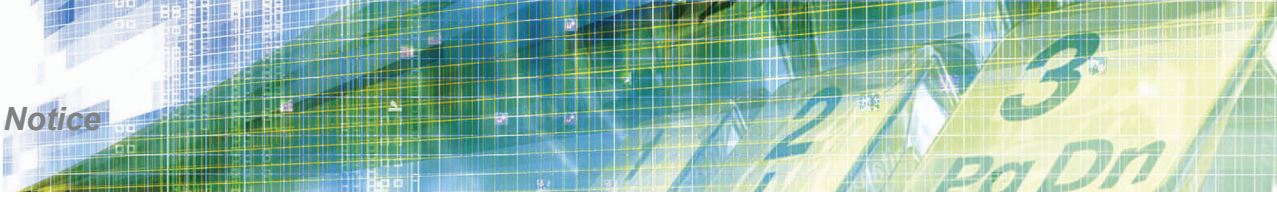
<u>POS</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	CTT	Transaction Totals	O	1		N1/010
030	SE	Transaction Set Trailer	M	1		

Comments:

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

Notes:

- 1/010 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.



ST

Transaction Set Header

POS: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

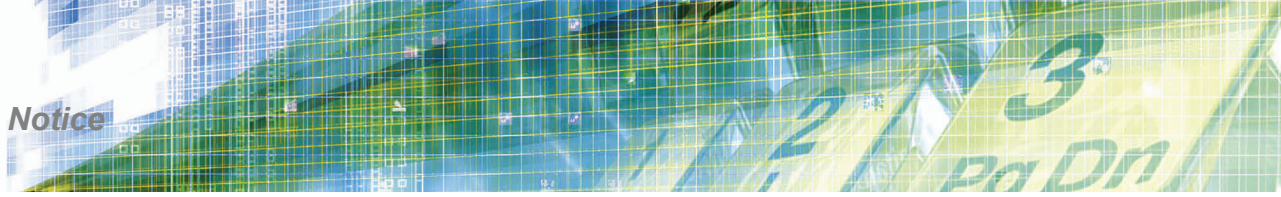
To indicate the start of a transaction set and to assign a control number.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>				
ST01	143	Transaction Set Identifier Code	M	ID	3/3					
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>856</td> <td>Ship Notice/Manifest</td> </tr> </table>	<u>Code</u>	<u>Name</u>	856	Ship Notice/Manifest				
<u>Code</u>	<u>Name</u>									
856	Ship Notice/Manifest									
ST02	329	Transaction Set Control Number	M	AN	4/9					

Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).



BSN Beginning Segment for Ship Notice

POS: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

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

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>						
BSN01	353	Transaction Set Purpose Code	M	ID	2/2							
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>14</td> <td>Advance Notification</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original	14	Advance Notification				
<u>Code</u>	<u>Name</u>											
00	Original											
14	Advance Notification											
BSN02	396	Shipment Identification	M	AN	2/30							
BAN03	373	Date	M	DT	8/8							
BSN04	337	Time	M	TM	4/8							

Syntax:

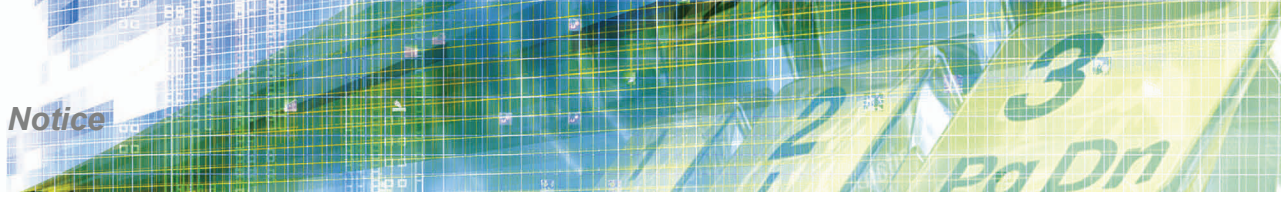
1. C0706 -- If BSN07 is present, than BSN06 is required

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.



DTM Date/Time Reference

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

To specify pertinent dates and times.

Element Summary:

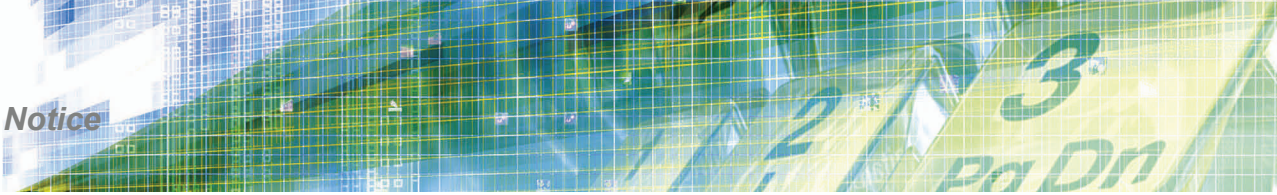
<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	N1/374
		<u>Code</u> <u>Name</u>				
		011 Shipped				
		017 Estimated Delivery				
DTM02	373	Date	C	DT	8/8	
DTM03	337	Time	C	TM	4/8	
DTM04	623	Time Code	O	ID	2/2	
		<u>Code</u> <u>Name</u>				
		ES Eastern Standard Time				

Syntax:

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

Notes:

- 1/374 Please refer to the *EDI Services Guide* for additional requirements.



HL

Hierarchical Level

POS: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

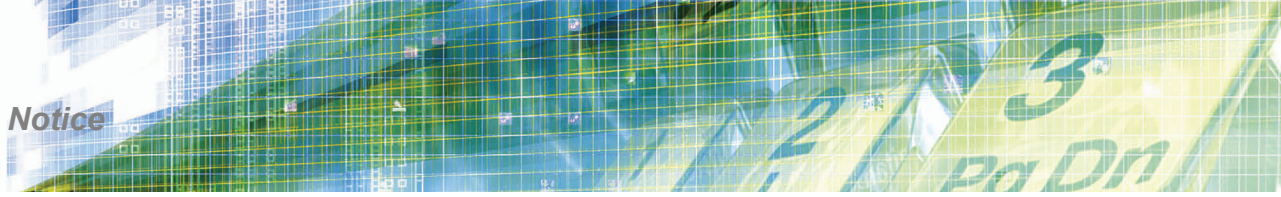
To identify dependencies among and the content of hierarchically related groups of data segments.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	
HL03	735	Hierarchical Level Code	M	ID	1/2	
		<u>Code</u> <u>Name</u>				
		I Item				
		O Order				
		S Shipment				
HL04	736	Hierarchical Child Code	O	ID	1/1	
		<u>Code</u> <u>Name</u>				
		0 No Subordinate HL Segment in this Hierarchical Structure				
		1 Additional Subordinate HL Data Segment in this Hierarchical Structure				

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 indicated whether or not there are subordinate (or child) HL segments related to the current HL segment.



LIN

Item Identification

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

To specify basic item identification data.

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
LIN01	350	Assigned Identification	O	AN	1/20	
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	
		<u>Code</u> <u>Name</u>				
		VP Vendor's (Seller's) Part Number				
LIN03	234	Product/Service ID	M	AN	1/48	
LIN04	235	Product/Service ID Qualifier	C	ID	2/2	
		<u>Code</u> <u>Name</u>				
		VP Vendor's (Seller's) Part Number				
LIN05	234	Product/Service ID	C	AN	1/48	

Syntax:

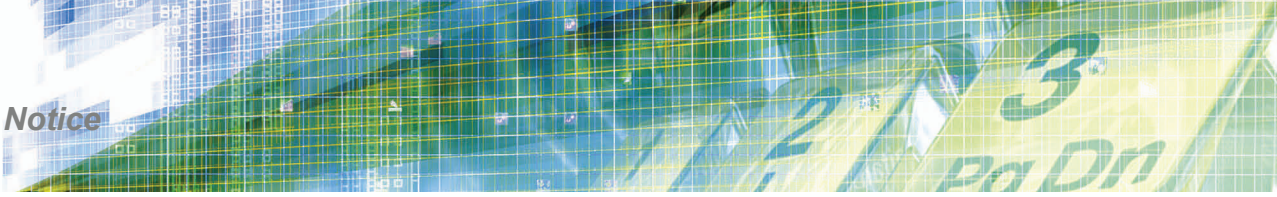
1. P0405 -- If either LIN04 or LIN05 are present, then the others are required.
2. P0607 -- If either LIN06 or LIN07 are present, then the others are required.
3. P0809 -- If either LIN08 or LIN09 are present, then the others are required.

Semantics

1. LIN01 is the line item identification.

Comments:

1. See the data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.



SN1 Item Detail (Shipment)

POS: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

To specify line-item detail relative to shipment.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
SN101	350	Assigned Identification	O	AN	1/20	
SN102	382	Number of Units Shipped	M	R	1/10	
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	
		<u>Code</u> <u>Name</u>				
		CA Case				
		EA Each				
		GR Gram				
		PC Piece				
		PK Package				

Syntax:

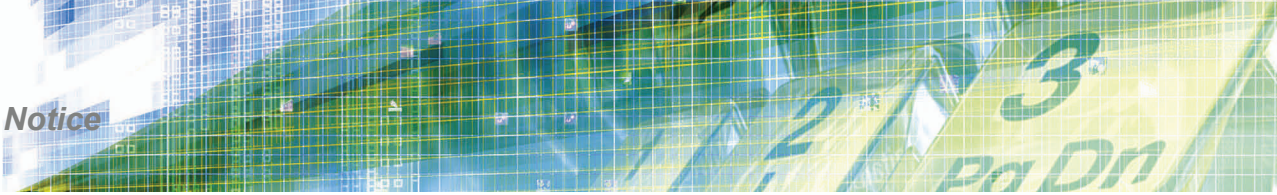
1. P0506 -- If either SN105 or SN106 are present, then the others are required.

Semantics

1. SN101 is the ship notice line-item identification.

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.



SLN Subline Item Detail

POS: 040	Max: 1000
Detail - Optional	
Loop: HL	Elements: 7

To specify the location of the named party.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
SLN01	350	Assigned Identification	M	AN	1/20	
SLN02	350	Assigned Identification	O	AN	1/20	
SLN03	662	Relationship Code	M	ID	11/1	
		<u>Code</u> <u>Name</u>				
		1 Included				
SLN04	380	Quantity	C	R	1/15	
SLN05	C001	Composite Unit of Measure	C	Comp		
	355	Unit or Basis for Measurement Code	M	ID	2/2	
		<u>Code</u> <u>Name</u>				
		CA Case				
		EA Each				
		GR Gram				
		PC Piece				
		PK Package				
	1018	Exponent	O	R	1/15	
	649	Multiplier	O	R	1/10	
SLN06	212	Unit Price	C	R	1/17	
SLN07	639	Basis of Unit Price Code	O	ID	2/2	
		<u>Code</u> <u>Name</u>				
		CT Contract				

Syntax:

1. P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. C0706 -- If SLN07 is present, than SLN06 is required

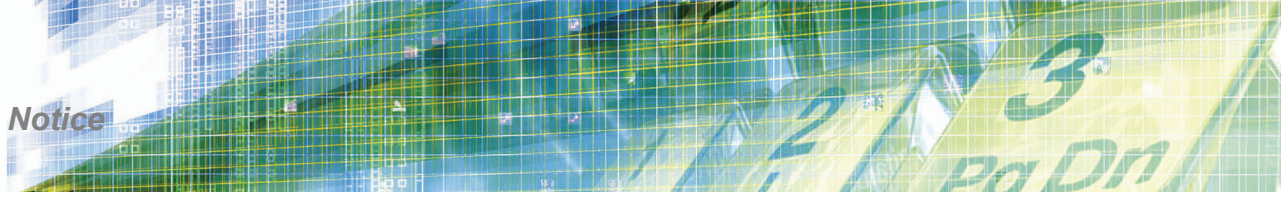


Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDS.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN281 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.



PRF Purchase Order Reference

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

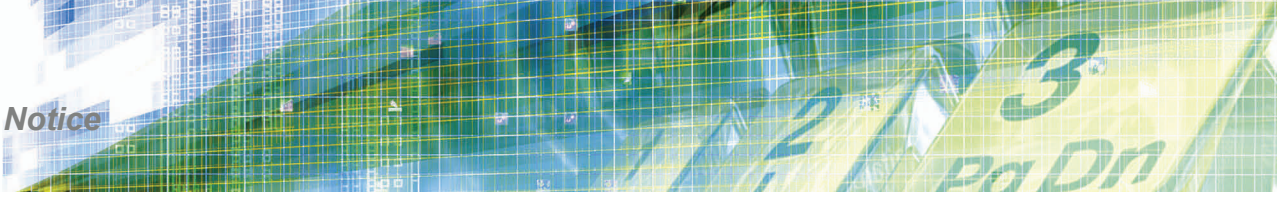
To provide reference to a specific purchase order.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
PRF01	324	Purchase Order Number	M	AN	1/22	
PRF02	328	Release Number	O	AN	1/30	
PRF04	373	Date	O	DT	8/8	

Syntax:

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



PID Product/Item Description

POS: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

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

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
PID01	349	Item Description Type <u>Code</u> <u>Name</u> F Free-form	M	ID	1/1	
PID05	352	Description	C	AN	1/80	

Syntax:

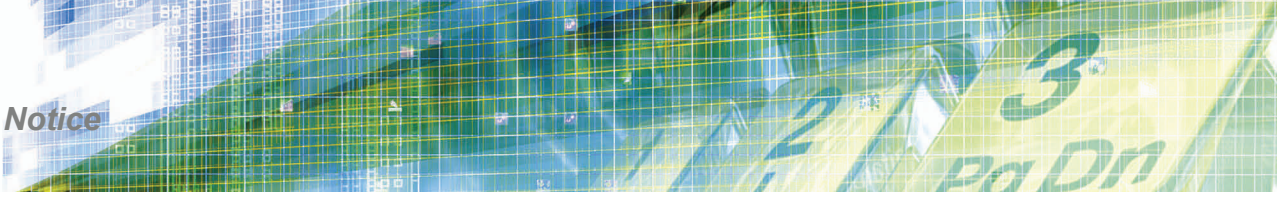
1. R0405 - At least one of PID04 or PID05 is required.
2. C0403 -- If PID04 is present, than PID03 is required

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.
33. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.



TD5 Carrier Details (Routing Sequence/Transit Time)

POS: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 2

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

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>				
TD501	133	Routing Sequence Code	O	ID	1/2					
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>O</td> <td>Origin Carrier (Air or Ocean)</td> </tr> </table>	<u>Code</u>	<u>Name</u>	O	Origin Carrier (Air or Ocean)				
<u>Code</u>	<u>Name</u>									
O	Origin Carrier (Air or Ocean)									
TD505	387	Routing	C	AN	1/35					

Syntax:

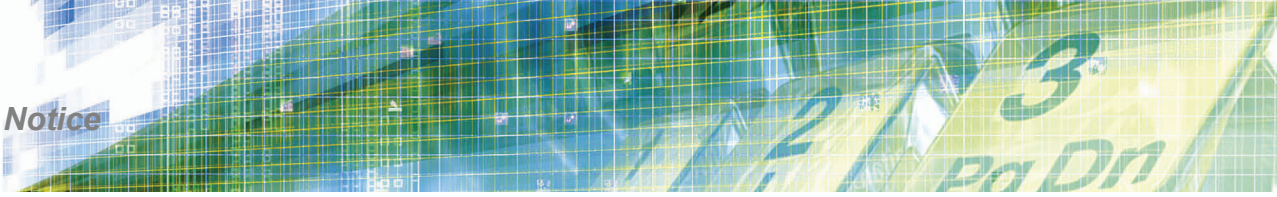
1. R0204050612 -- At least one of TD502, TD504, TD505, TD506 or TD512 is required.

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



REF Reference Identification

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

To specify identifying information.

Element Summary:

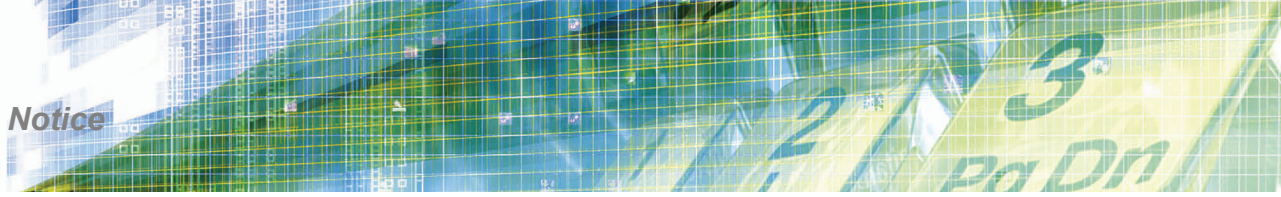
<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	
		<u>Code</u> <u>Name</u>				
		LS Bar-Coded Serial Number				
		SO Shipper's Order (Invoice Number)				
REF02	127	Reference Identification	C	AN	1/30	

Syntax:

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

Semantics:

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



CLD Load Detail

POS: 170	Max: 1
Detail - Optional	
Loop: CLD	Elements: 2

To specify the number of material loads shipped.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
CLD01	622	Number of Loads	M	N0	1/5	
CLD02	382	Number of Units Shipped	M	R	1/10	

Syntax:

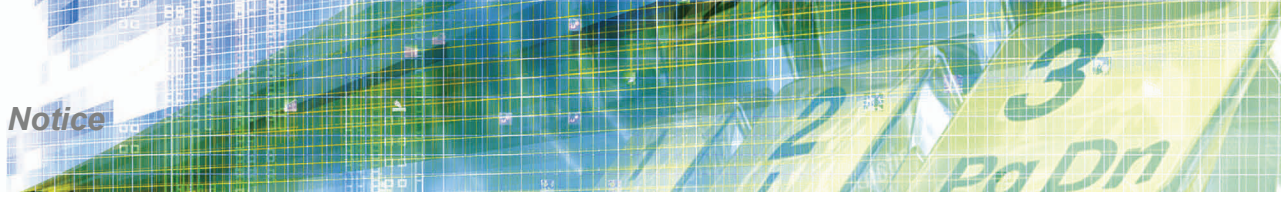
1. C0504 -- If CLD05 is present, than CLD04 is required

Syntax:

1. CLD05 is used to dimension the value given in CLD04.

Comments:

1. The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.



PKG Marking, Packaging, Loading

POS: 303	Max: 1
Detail - Optional	
Loop: PKG	Elements: 5

To describe marking, packaging, loading and unloading requirements.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
PKG01	349	Item Description Type <u>Code</u> <u>Name</u> F Free-form	C	ID	1/1	
PKG02	753	Packaging Characteristic Code	O	ID	1/5	
PKG03	559	Agency Qualifier Code	C	ID	2/2	
PKG04	754	Packaging Description Code	O	AN	1/7	
PKG05	352	Description	C	AN	1/80	

Syntax:

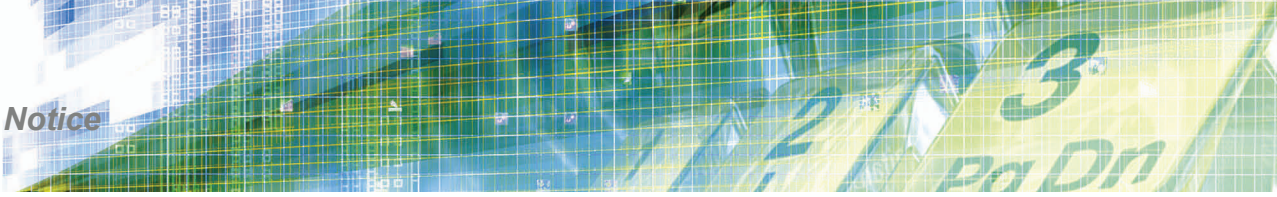
1. R040506 -- At least one of PKG04, PKG05 or PKG06 is required.
2. C0403 -- If PKG04 is present, than PKG03 is required
3. C0501 -- If PKG05 is present, than PKG01 is required

Semantics:

1. PKG04 should be used for industry-specific packaging description codes.

Comments:

1. Use MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
2. If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.
3. Use PKG03 to indicate the organization that publishes the code list being referred to.
4. Special marking or tagging data can be given in PKG05 (description).



N1

Name

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

To identify a party by type or organization, name and code.

Element Summary:

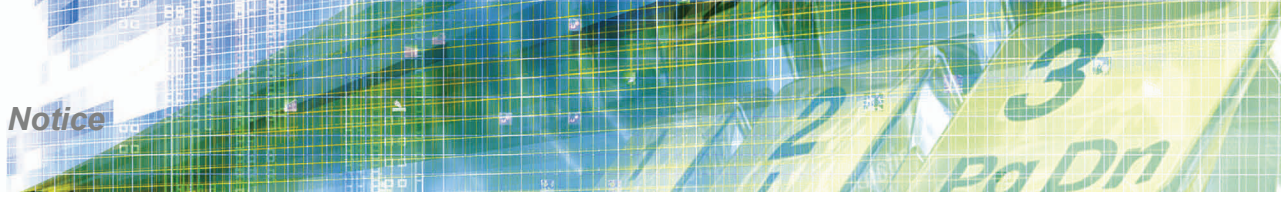
<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
N101	98	Entity Identifier Code <u>Code</u> <u>Name</u> BT Bill-to-Party ST Ship To SE Selling Party	M	ID	2/3	
N102	93	Name	C	AN	1/60	
N103	66	Identifier Code Qualifier <u>Code</u> <u>Name</u> 91 Assigned by Seller or Seller's Agent	C	ID	1/2	
N104	67	Identification Code	C	AN	2/80	

Syntax:

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

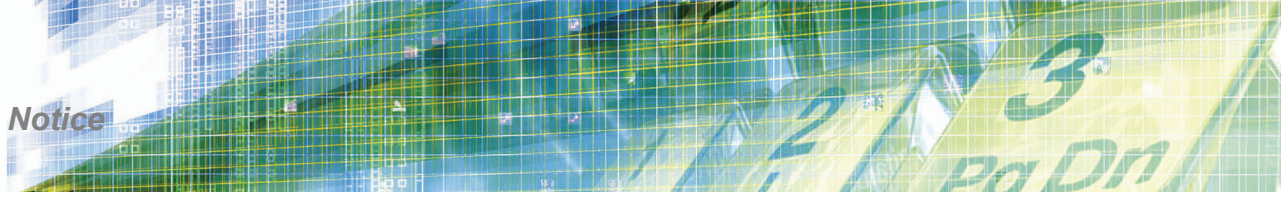
Additional Name Information

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

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

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
N201	93	Name	M	AN	1/60	
N202	93	Name	C	AN	1/60	



N3

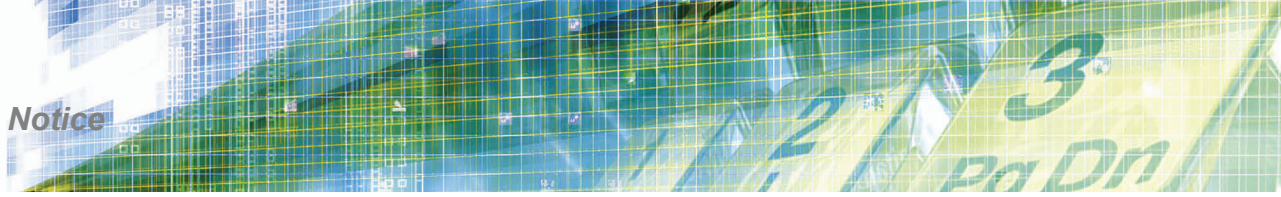
Address Information

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

To specify the location of the named party.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
N301	166	Address Information	M	AN	1/55	
N302	166	Address Information	O	AN	1/55	



N4

Geographic Location

POS: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

To specify the geographic place of the named party.

Element Summary:

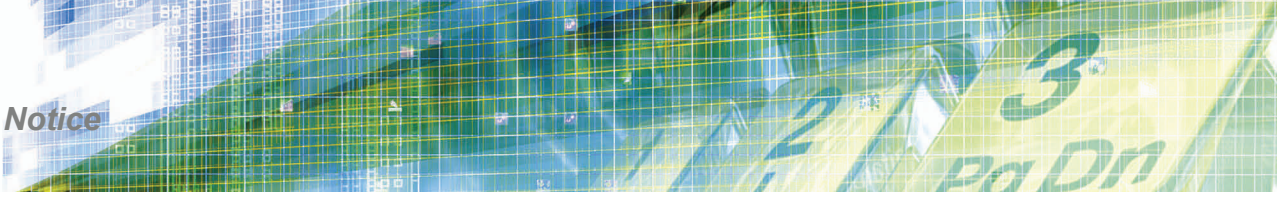
<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
N401	19	City Name	O	AN	2/30	
N402	156	State or Province Code	O	ID	2/2	
N403	116	Postal Code	O	ID	3/15	

Syntax:

1. C0605 -- If N406 is present, than N405 is required

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.



CTT Transaction Totals

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

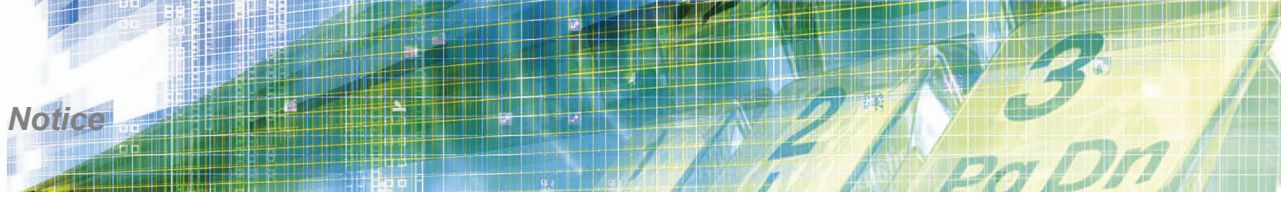
To transmit a hash total for a specific element in the transaction set.

Element Summary:

<u>Ref</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
CTT01	354	Number o Line Items	M	N0	1/6	

Comments:

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



SE

Transaction Set Trailer

POS: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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>Segment Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Notes</u>
SE01	96	Number of Included Segments	M	N0	1/10	
SE02	329	Transaction Set Control Number	M	AN	4/9	

Comments:

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



Sample 856:

Below is a complete example of an 856 transmission:

```
ISA*00*      *00*      *14*004321519IBMP *ZZ*7777777777
      *070919*2317*U*00400*000455158*0*P*>
GS*SH*004321519*7777777777*20070919*2317*455157*X*004010
ST*856*641579
BSN*00*U72614972222*20070919*231716
HL*000000000001*000000000000*T*1
PRF*104934001***20070918
HL*000000000002*000000000001*I*0
LIN*1*VP*10268399
SN1*1*3*CA
SLN*1**1*30*PK*605*CT
PID*F*08***VAC TUBE 3ML 100/PK
REF*LS*722149721
CLD*1*7
CTT*2
SE*13*641579
GE*1*455157
IEA*1*000455158
```