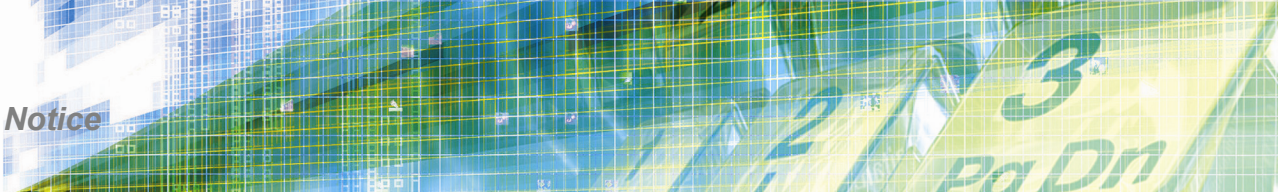**Fisher Scientific**

Part of Thermo Fisher Scientific

EDI Specifications

856 - Advance Ship Notice (Supplier v4010)

December 2010

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:

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

Detail:

| POS	ID	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - HL					**200000**	
010	HL	Hierarchical Level	M	1		C2/010
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		
190	MAN	Marks and Numbers	O	>1		

Summary:

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

Comments:

2/010   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
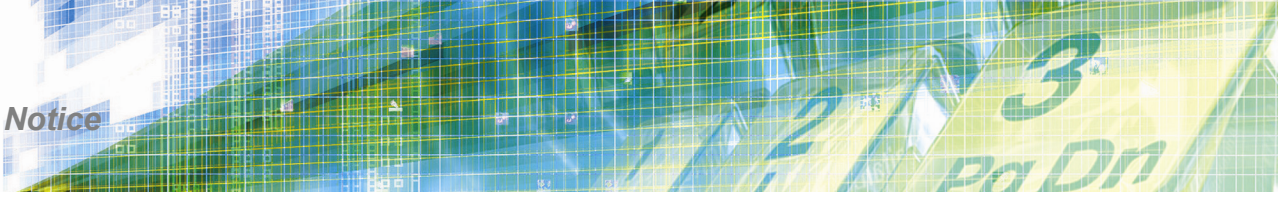
Transaction Set Header

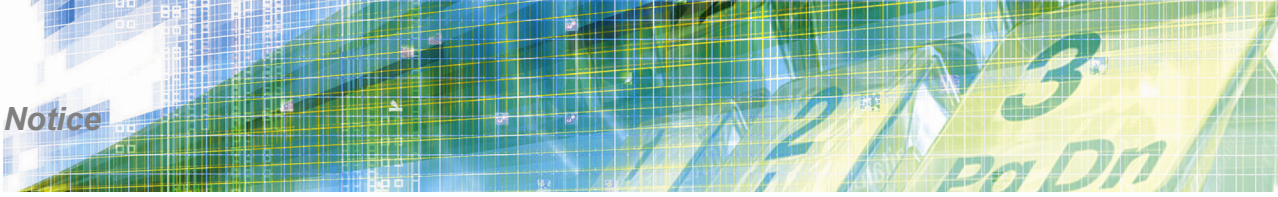|	
POS: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	
		Code Name				
		856 Ship Notice/Manifest				
ST02	329	**Transaction Set Control Number**	M	AN	4/9	

Semantics:

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

BSN Beginning Segment for Ship Notice

|	
POS: 020	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 5**

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

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
BSN01	353	**Transaction Set Purpose Code**	M	ID	2/2	
		Code Name				
		00 Original				
BSN02	396	**Shipment Identification**	M	AN	2/30	
BAN03	373	**Date**	M	DT	8/8	
BSN04	337	**Time**	M	TM	4/8	
BSN05	1005	**Hierarchical Structure Code**				
		Code Name				
		0001 Shipment, Packaging, Item				

Semantics:

1.   BSN03 is the date the shipment transaction set is created.

2.   BSN04 is the time the shipment transaction set is created.
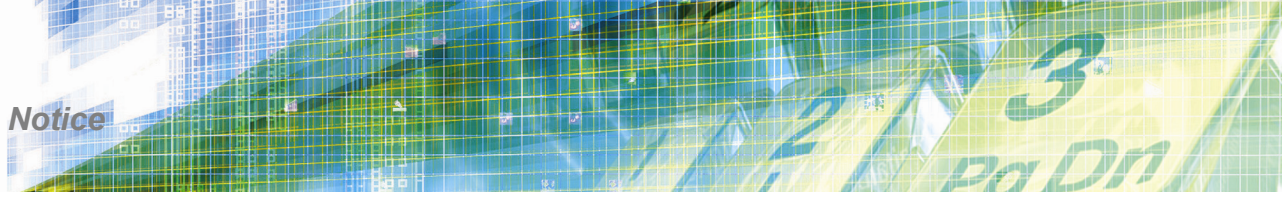
DTM **Date/Time Reference**

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

To specify pertinent dates and times.

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	
		Code Name				
		011 Shipped				
DTM02	373	**Date**	C	DT	8/8	
DTM03	337	**Time**	C	TM	4/8	
DTM04	623	**Time Code**	O	ID	2/2	
		Code Name				
		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.
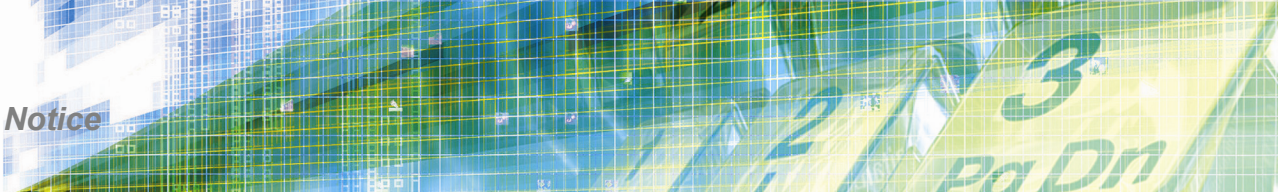
HL   Hierarchical Level

| 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:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
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	

    Code   **Name**
    I   Item
    O   Order
    P   Pack
    S   Shipment
    T   Shipping Tar

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
HL04	736	**Hierarchical Child Code**	O	ID	1/1	

    Code   **Name**
    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.
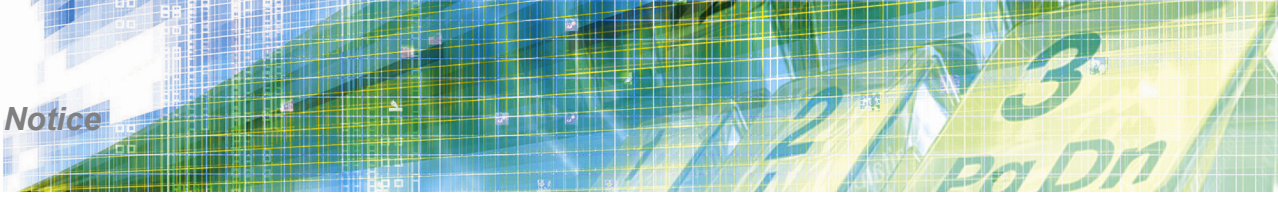
LIN   Item Identification

POS: 020	**Max:** 1
Detail - Optional	
Loop: HL	**Elements:** 3

To specify basic item identification data.

Element Summary:
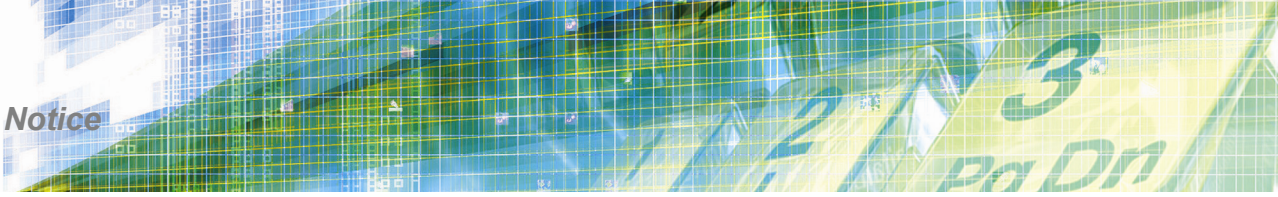
Ref	ID	Segment Name	Req	Type	Min/Max	Notes
LIN01	350	**Assigned Identification**	O	AN	1/20	
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	

        Code   **Name**
        VP   Vendor's (Seller's) Part Number
        CB   Buyer's Catalog Number

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
LIN03	234	**Product/Service ID**	M	AN	1/48	

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:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
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	

Code	Name
CA	Case
EA	Each
GR	Gram
PC	Piece
PK	Package

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: 5

To specify the location of the named party.

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
SLN01	350	**Assigned Identification**	M	AN	1/20	N/350
SLN02	350	**Assigned Identification**	O	AN	1/20	
SLN03	662	**Relationship Code**	M	ID	11/1	

     <u>Code</u>   <u>Name</u>
     1   Included

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
SLN09	235	**Product/Service ID Qualifier**	C	ID	2/2	

     <u>Code</u>   <u>Name</u>
     LT   Lot Number

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
SLN10	234	**Product/Service ID**	C	AN	1/48	

Syntax:

1. SLN09—If either SLN09 or SLN10 are present, then the others are required.
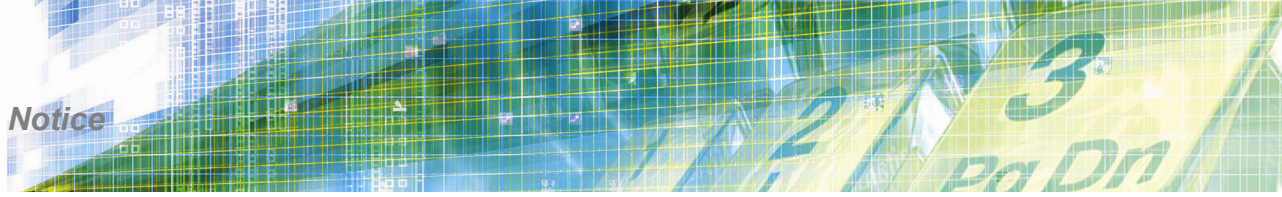
Semantics

1. SLN01 is the identifying number for the subline item.

2. SLN02 is the identifying number for the subline item. The subline level is analogous to the level code used in a bill of material.

3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

Comments:

1. See the Data Element Dictionary for a complete list of IDS.

2. SLN01 is related to (but non 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 SLN28 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.

Notes:

N/350   Please refer to *EDI Services Guide* for additional requirements.

PRF **Purchase Order Reference**

<table>
<tr><td>POS: 050</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
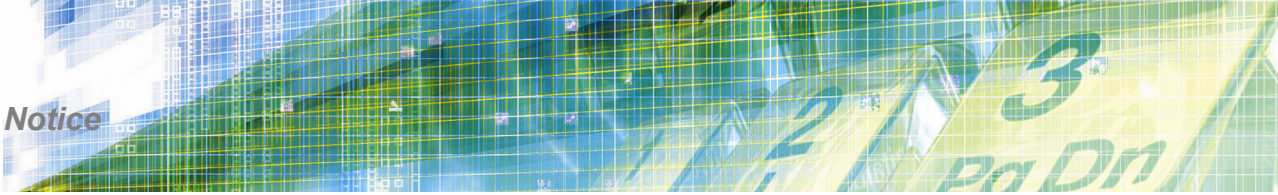<tr><td>Loop: HL</td><td>Elements: 3</td></tr>
</table>

To provide reference to a specific purchase order.

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
PRF01	324	**Purchase Order Number**	M	AN	1/22	N/324

Notes

N/324   Please refer to the *EDI Services Guide* for additional requirements.

MAN Marks and Numbers

POS: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 3

To indicate identifying marks and numbers for shipping containers.

Element Summary:

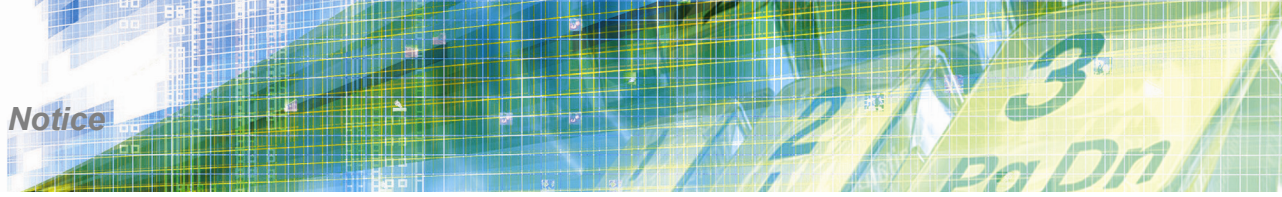| Ref	ID	Segment Name	Req	Type	Min/Max	Notes
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	N/88
		Code Name				
		GM SSCC-18 and Application Identifier				
		SM Shipper Assigned				
MAN02	87	**Marks and Numbers**	M	AN	1/48	

Semantics:

1.   MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.

2.   When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.

Comments;

1.   When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.

Notes

N/88   Please refer to the *EDI Services Guide* for additional requirements.

CTT **Transaction Totals**

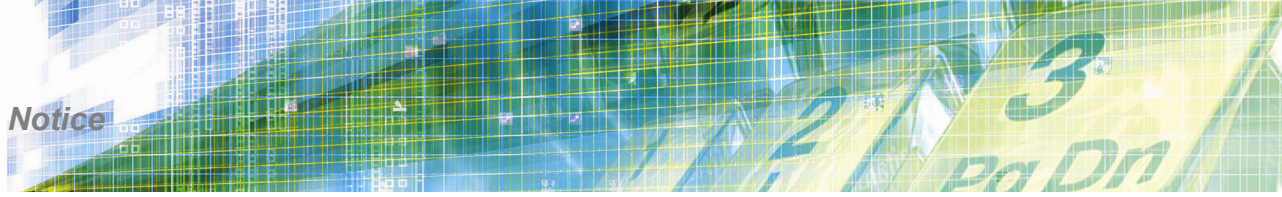|	
POS: 010	**Max: 1**
Summary - Optional	
Loop: N/A	**Elements: 2**

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

Element Summary:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
CTT01	354	**Number o Line Items**	M	N0	1/6	
CTT02	347	**Hash Total**	O	R	1/10	

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:

Ref	ID	Segment Name	Req	Type	Min/Max	Notes
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.
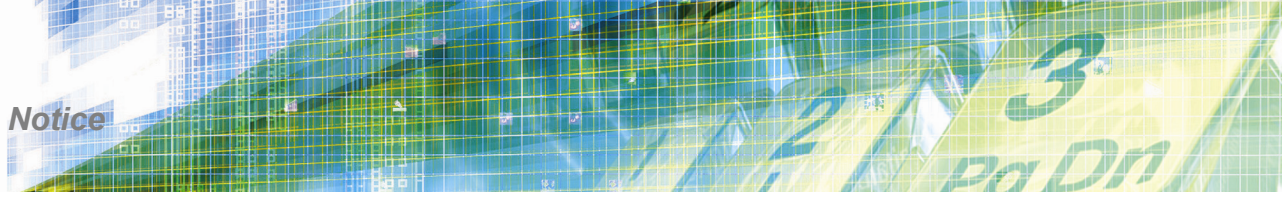
Sample 856:

Below is a complete example of an 856 transmission:

Shipment Level
ISA*00*   *00*   *ZZ*7777777777   *14*004321519IBMP
    *070920*0849*U*00401*000012152*0*P*>
GS*SH*7777777777*004321519*20070920*0849*12467*X*004010
ST*856*12159
BSN*00*222253*20070919*115902*0001
HL*1**S
DTM*011*20070919
HL*2*1*O
PRF*DR3469500
HL*3*2*P
MAN*SM*1Z54242X0357922222
HL*4*3*I
LIN*001*CB*25901
SN1*001*2*EA
CTT*4
SE*13*12159
GE*1*12467
IEA*1*000012152

Pallet Level
 ISA*00*   *00*   *ZZ*7777777777   *14*004321519IBMP
    *070920*0849*U*00401*000012152*0*P*>
GS*SH*7777777777*004321519*20070920*0849*12467*X*004010
ST*856*12159
BSN*00*222253*20070919*115902*0001
HL*1**S
DTM*011*20070919
HL*2*1*O*1
PRF*DR3469500
HL*3*2*T*1
MAN*SM*1Z54242X0357922222
HL*4*3*I*1
LIN*001*CB*25901
SN1*001*2*EA
CTT*4
SE*13*12159
GE*1*12467
IEA*1*000012152