Ship Notice/Manifest Specification

Version 004010

856 Ship Notice/Manifest

The segments we use within the 856 are as follows (click on the segment for further description):

Beginning Segment for Ship Notice	BSN
Hierarchical Level	HL
Carrier Details (Quantity and Weight)	TD1
Carrier Details (Routing Sequence/Transit Time)	TD5
Reference Identification	REF
Date/Time Reference	DTM
Name	N1
Marks and Numbers	MAN
Pallet Information	PAL
Purchase Order Reference	PRF
Item Identification	LIN
Item Detail (Shipment)	SN1

Version 004010

BSN Beginning Segment for Ship Notice

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

ID	Name	Data Type	Min/Max Size	Sent
01	Transaction Set Purpose Code	ID	2/2	Y
02	Shipment Identification	Alphanumeric	2/30	Y
03	Date	Date	8/8	Y
04	Time	Time	4/8	Y
05	Hierarchical Structure Code	ID	4/4	Y
06	Transaction Type Code	ID	2/2	N
07	Status Reason Code	ID	3/3	N

Example:
BSN*00*00000000012345678*20090323*1440*0001

BSN02 00000000012345678 is the Bill of Lading Number and should be the Shipment Identification

SYNTAX NOTES
07 C0706 - If BSN07 is present, then BSN06 is required.
SEMANTIC NOTES
03 BSN03 is the date the shipment transaction set is created.
04 BSN04 is the time the shipment transaction set is created.
06 BSN06 is limited to shipment related codes.
BSN06 and BSN07 differentiate the functionality of use for
the transaction set.
06
COMMENTS

Version 004010

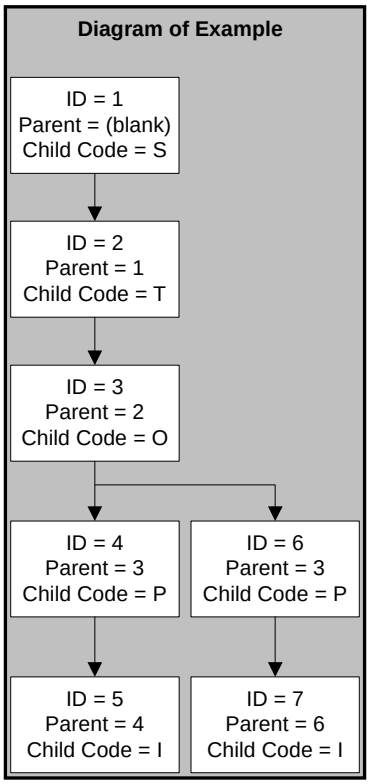
HL Hierarchical Level

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

ID	Name	Data Type	Min/Max Size	Sent
01	Hierarchical ID Number	Alphanumeric	1/12	Y
02	Hierarchical Parent ID Number	Alphanumeric	1/12	Y
03	Hierarchical Level Code	ID	1/2	Y
04	Hierarchical Child Code	ID	1/1	Y

Example:
(A Hierarchical Child Code of S = Shipment, Hierarchical Level Code is blank because the shipment is the parent of all other levels)
HL*1**S
(A Hierarchical Child Code of T = Tare or Pallet)
HL*2*1*T
(A Hierarchical Child Code of O = Order)
HL*3*2*O
(A Hierarchical Child Code of P = Pack or Carton)
HL*4*3*P
(A Hierarchical Child Code of I = Item detail)
HL*5*4*I
(A Hierarchical Child Code of P = Pack or Carton)
HL*6*3*P
(A Hierarchical Child Code of I = Item detail)
HL*7*6*I

The only Hierarchical Child Codes we will accept are S, T, O, P and I.



COMMENTS
00
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.
00
The HL segment defines a top-down/left-right ordered structure.

01
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.

02
HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

03
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.

04
HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Version 004010

TD1 Carrier Details (Quantity and Weight)

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

ID	Name	Data Type	Min/Max Size	Sent
01	Packaging Code	Alphanumeric	3/5	Y
02	Lading Quantity	Numeric	1/7	Y
03	Commodity Code Qualifier	ID	1/1	N
04	Commodity Code	Alphanumeric	1/30	N
05	Lading Description	Alphanumeric	1/50	N
06	Weight Qualifier	ID	1/2	Y
07	Weight	Numeric	1/10	Y

08	Unit or Basis for Measurement Code	ID	2/2	Y
09	Volume	Numeric	1/8	N
10	Unit or Basis for Measurement Code	ID	2/2	N

Example:
TD1*CTN25*10****G*750*LB

TD101 CTN stands for Carton and the 25 stands for corrugated cardboard. This is the default we expect.
TD106 G means gross weight
TD108 LB means pound

SYNTAX NOTES
01 C0102 - If TD101 is present, then TD102 is required.
03 C0304 - If TD103 is present, then TD104 is required.
06 C0607 - If TD106 is present, then TD107 is required.
07 P0708 - If either TD107 or TD108 is present, then the other is required.
09 P0910 - If either TD109 or TD110 is present, then the other is required.

Version 004010

TD5 Carrier Details (Routing Sequence/Transit Time)

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

ID	Name	Data Type	Min/Max Size	Sent
01	Routing Sequence Code	ID	1/2	Y
02	Identification Code Qualifier	ID	1/2	Y
03	Identification Code	Alphanumeric	2/80	Y
04	Transportation Method/Type Code	ID	1/2	N
05	Routing	Alphanumeric	1/35	N
06	Shipment/Order Status Code	ID	2/2	N
07	Location Qualifier	ID	1/2	N
08	Location Identifier	Alphanumeric	1/30	N
09	Transit Direction Code	ID	2/2	N
10	Transit Time Direction Qualifier	ID	2/2	N
11	Transit Time	Time	1/4	N
12	Service Level Code	ID	2/2	N
13	Service Level Code	ID	2/2	N
14	Service Level Code	ID	2/2	N
15	Country Code	ID	2/3	N

Example:
TD5*O*2*FDEG

TD501 O is the originating carrier
TD502 2 means we expect the SCAC Standard Carrier Alpha Code in TD503
TD503 FDEG is FedEx grounds SCAC

SYNTAX NOTES
02 R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
02 C0203 - If TD502 is present, then TD503 is required.
05 C0708 - If TD507 is present, then TD508 is required.
10 C1011 - If TD510 is present, then TD511 is required.
13 C1312 - If TD513 is present, then TD512 is required.
14 C1413 - If TD514 is present, then TD513 is required.
15 C1512 - If TD515 is present, then TD512 is required.

SEMANTIC NOTES
15 TD515 is the country where the service is to be performed.

COMMENTS
02 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.

Version 004010

REF Reference Identification

To specify identifying information

ID	Name	Data Type	Min/Max Size	Sent
01	Reference Identification Qualifier	ID	2/3	Y
02	Reference Identification	Alphanumeric	1/30	Y
03	Description	Alphanumeric	1/80	N
04	Reference Identifier	Alphanumeric	1/30	N

Example:
REF*BM*766804

REF01 BM is for the bill of lading

SYNTAX NOTES
02 R0203 - At least one of REF02 or REF03 is required.

SEMANTIC NOTES
04 REF04 contains data relating to the value cited in REF02.

Version 004010

DTM Date/Time Reference

To specify pertinent dates and times

ID	Name	Data Type	Min/Max Size	Sent
01	Date/Time Qualifier	ID	3/3	Y
02	Date	Date	8/8	Y
03	Time	Time	4/8	N
04	Time Code	ID	2/2	N
05	Date Time Period Format Qualifier	ID	2/3	N
06	Date Time Period	Alphanumeric	1/35	N

Example:
(A Date/Time Qualifier of 011 means Shipped Date)
DTM*011*20090323

SYNTAX NOTES
02 R020305 - At least one of DTM02, DTM03 or DTM05 is required.
04 C0403 - If DTM04 is present, then DTM03 is required.
05 P0506 - If either DTM05 or DTM06 is present, then the other is required.

Version 004010

N1 Name

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

ID	Name	Data Type	Min/Max Size	Sent
01	Entity Identifier Code	ID	2/3	Y
02	Name	Alphanumeric	1/60	N
03	Identification Code Qualifier	ID	1/2	Y
04	Identification Code	Alphanumeric	2/80	Y
05	Entity Relationship Code	ID	2/2	N
06	Entity Identifier Code	ID	2/3	N

Example:
N1*ST**92*NJ01

N101 ST means Ship To

N103 92 is an identifier specifying this N104 is the DC identifier
N104 0015 is the ID sent on the 850 for the DC

N1*MA**92*0015

N101 MA means Party for whom Item is ultimately intended
N103 92 is an identifier specifying this N104 is a store number 4 digits and zero filled
N104 0015 is the ID sent on the 850 from this store location

N1*SF**92*123456

N101 SF means Ship From
N103 92 is an identifier specifying this N104 is a the 6 digit zero filled vendor identifier assigned at A.C.Moore
N104 123456 is the id A.C.Moore has assigned to your supplier

SYNTAX NOTES
02 R0203 - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.

COMMENTS
04 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.
05 N105 and N106 further define the type of entity in N101.

Version 004010

N4 Geographic Location

To specify the geographic place of the named party

ID	Name	Data Type	Min/Max Size	Sent
01	City Name	Alphanumeric	2/30	Y
02	State or Province Code	ID	2/2	Y
03	Postal Code	ID	3/15	Y
04	Country Code	ID	2/3	Y
05	Location Qualifier	ID	1/2	N
06	Location Identifier	Alphanumeric	1/30	N

Example:
N4*South Portland*ME*04106*US

SYNTAX NOTES
06 C0605 - If N406 is present, then N405 is required.

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

Version 004010

MAN Marks and Numbers

To indicate identifying marks and numbers for shipping containers

ID	Name	Data Type	Min/Max Size	Sent
01	Marks and Numbers Qualifier	ID	1/2	Y
02	Marks and Numbers	Alphanumeric	1/48	Y
03	Marks and Numbers	Alphanumeric	1/48	N
04	Marks and Numbers Qualifier	ID	1/2	N
05	Marks and Numbers	Alphanumeric	1/48	N
06	Marks and Numbers	Alphanumeric	1/48	N

Example:
MAN*GM*00100340860075232455

MAN01 GM is the SSCC-18 identifier. This identifier is the expected for both the Tare (Pallet) and Pack (Carton) level bar codes

SYNTAX NOTES
04 P0405 - If either MAN04 or MAN05 is present, then the other is required.
06 C0605 - If MAN06 is present, then MAN05 is required.

SEMANTIC NOTES
01 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
02 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.
05 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

COMMENTS
01 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.
03 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
03 When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Version 004010

PAL Pallet Information

To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

ID	Name	Data Type	Min/Max Size	Sent
01	Pallet Type Code	ID	1/2	Y
02	Pallet Tiers	Numeric	1/3	N
03	Pallet Blocks	Numeric	1/3	N
04	Pack	Numeric	1/6	Y
05	Unit Weight	Numeric	1/8	Y
06	Unit or Basis for Measurement Code	ID	2/2	Y
07	Length	Numeric	1/8	N
08	Width	Numeric	2/2	N
09	Height	Numeric	1/8	N
10	Unit or Basis for Measurement Code	ID	1/8	N
11	Gross Weight per Pack	Numeric	1/8	N
12	Unit or Basis for Measurement Code	ID	2/2	N
13	Gross Volume per Pack	Numeric	1/9	N
14	Unit or Basis for Measurement Code	ID	2/2	N
15	Pallet Exchange Code	ID	1/1	N
16	Inner Pack	Numeric	1/6	N

Example:
PAL*6***50*250*LB

PAL01 6 means it’s a wooden pallet
PAL04 50 is the quantity of packs on the pallet
PAL05 250 is the weight of the pallet in pounds
PAL06 LB means pounds

SYNTAX NOTES
05 P0506 - If either PAL05 or PAL06 is present, then the other is required.
07 C0710 - If PAL07 is present, then PAL10 is required.
08 C0810 - If PAL08 is present, then PAL10 is required.

09 C0910 - If PAL09 is present, then PAL10 is required.
10 L10070809 - If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
11 P1112 - If either PAL11 or PAL12 is present, then the other is required.
13 P1314 - If either PAL13 or PAL14 is present, then the other is required.

SEMANTIC NOTES
04 PAL04 (Pack) is the number of pieces on the pallet.
05 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
07 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
09 PAL09 (Height) is the height of the pallet and load.
11 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Version 004010

PRF Purchase Order Reference

To provide reference to a specific purchase order

ID	Name	Data Type	Min/Max Size	Sent
01	Purchase Order Number	Alphanumeric	1/22	Y
02	Release Number	Alphanumeric	1/30	N
03	Change Order Sequence Number	Alphanumeric	1/8	N
04	Date	Date	8/8	N
05	Assigned Identification	Alphanumeric	1/20	N
06	Contract Number	Alphanumeric	1/30	N
07	Purchase Order Type Code	ID	2/2	N

Example:
PRF*87654321

SEMANTIC NOTES
04 PRF04 is the date assigned by the purchaser to purchase order.

Version 004010

LIN Item Identification

To specify basic item identification data

ID	Name	Data Type	Min/Max Size	Sent
01	Assigned Identification	Alphanumeric	1/20	N
02	Product/Service ID Qualifier	ID	2/2	Y
03	Product/Service ID	Alphanumeric	1/48	Y
04	Product/Service ID Qualifier	ID	2/2	N
05	Product/Service ID	Alphanumeric	1/48	N
06	Product/Service ID Qualifier	ID	2/2	N
07	Product/Service ID	Alphanumeric	1/48	N
08	Product/Service ID Qualifier	ID	2/2	N
09	Product/Service ID	Alphanumeric	1/48	N
10	Product/Service ID Qualifier	ID	2/2	N
11	Product/Service ID	Alphanumeric	1/48	N
12	Product/Service ID Qualifier	ID	2/2	N
13	Product/Service ID	Alphanumeric	1/48	N
14	Product/Service ID Qualifier	ID	2/2	N
15	Product/Service ID	Alphanumeric	1/48	N
16	Product/Service ID Qualifier	ID	2/2	N
17	Product/Service ID	Alphanumeric	1/48	N
18	Product/Service ID Qualifier	ID	2/2	N
19	Product/Service ID	Alphanumeric	1/48	N
18	Product/Service ID Qualifier	ID	2/2	N
19	Product/Service ID	Alphanumeric	1/48	N
20	Product/Service ID Qualifier	ID	2/2	N
21	Product/Service ID	Alphanumeric	1/48	N
22	Product/Service ID Qualifier	ID	2/2	N
23	Product/Service ID	Alphanumeric	1/48	N
24	Product/Service ID Qualifier	ID	2/2	N

25	Product/Service ID	Alphanumeric	1/48	N
26	Product/Service ID Qualifier	ID	2/2	N
27	Product/Service ID	Alphanumeric	1/48	N
28	Product/Service ID Qualifier	ID	2/2	N
29	Product/Service ID	Alphanumeric	1/48	N
30	Product/Service ID Qualifier	ID	2/2	N
31	Product/Service ID	Alphanumeric	1/48	N

Example:
(with UPC Codes)
LIN**UP*024225012310
LIN02 UP stands UPC code

(with Item Codes)
LIN**VC*42024
LIN02 VC stands Vendor Item Code

SYNTAX NOTES
04 P0405 - If either LIN04 or LIN05 is present, then the other is required.
06 P0607 - If either LIN06 or LIN07 is present, then the other is required.
08 P0809 - If either LIN08 or LIN09 is present, then the other is required.
10 P1011 - If either LIN10 or LIN11 is present, then the other is required.
12 P1213 - If either LIN12 or LIN13 is present, then the other is required.
14 P1415 - If either LIN14 or LIN15 is present, then the other is required.
16 P1617 - If either LIN16 or LIN17 is present, then the other is required.
18 P1819 - If either LIN18 or LIN19 is present, then the other is required.
20 P2021 - If either LIN20 or LIN21 is present, then the other is required.
22 P2223 - If either LIN22 or LIN23 is present, then the other is required.
24 P2425 - If either LIN24 or LIN25 is present, then the other is required.
26 P2627 - If either LIN26 or LIN27 is present, then the other is required.
28 P2829 - If either LIN28 or LIN29 is present, then the other is required.
30 P3031 - If either LIN30 or LIN31 is present, then the other is required.

SEMANTIC NOTES
01 LIN01 is the line item identification

COMMENTS
02 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.

Version 004010

SN1 Item Detail (Shipment)

To specify line-item detail relative to shipment

ID	Name	Data Type	Min/Max Size	Sent
01	Assigned Identification	Alphanumeric	1/20	N
02	Number of Units Shipped	Numeric	1/10	Y
03	Unit or Basis for Measurement Code	ID	2/2	Y
04	Quantity Shipped to Date	Numeric	1/15	N
05	Quantity Ordered	Numeric	1/15	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Returnable Container Load Make-Up Code	ID	1/2	N
08	Line Item Status Code	ID	2/2	N

Example:
SN1**30*EA

SN103 EA is eaches. Eaches are the unit of measure we expect to get from the supplier

SYNTAX NOTES
05 P0506 - If either SN105 or SN106 is present, then the other is required.

SEMANTIC NOTES
01 SN101 is the ship notice line-item identification.

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

Version 004010

CTT Transaction Totals

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

ID	Name	Data Type	Min/Max Size	Sent
01	Number of Line Items	Numeric	1/6	Y
02	Hash Total	Numeric	1/10	N
03	Weight	Numeric	1/10	N
04	Unit or Basis for Measurement Code	ID	2/2	N
05	Volume	Numeric	1/8	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Description	Alphanumeric	1/80	N

Example:
CTT*13

CTT01 13 is the count of HL segments contained within the 856 document

SYNTAX NOTES
03 P0304 - If either CTT03 or CTT04 is present, then the other is required.
05 P0506 - If either CTT05 or CTT06 is present, then the other is required.

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

Example 856 Product shipped to the DC for a Store Location

```
ISA*00*          *00*          *12*1234567890     *12*6097684448
*090324*0420*U*00401*000000110*0*P*>
GS*SH*1234567890*6097684448*20090324*045213*12989307*X*04010
ST*856*12989307
BSN*00*00000000012345678*20090324*0420*0001
HL*1**S
TD1*CTN25*3*****1823*LB
TD5*O*2*FDEG
REF*BM*00000000012345678
DTM*011*20090325
N1*SF**92*012345
N4**MA
N1*ST**92*NJ01
N4**NJ
HL*2*1*T
MAN*GM*00100340860075232455
PAL*6***3*1823*LB
HL*3*2*O
PRF*87654321
TD1*CTN25*1*****910*LB
N1*MA**92*0015
N4**NJ
HL*4*2*O
PRF*87654322
TD1*CTN25*2*****913*LB
N1*MA**92*0056
N4**NY
HL*5*3*P
MAN*GM*00100340860075232456
HL*6*3*P
MAN*GM*00100340860075232457
HL*7*4*P
MAN*GM*00100340860075232458
```

```
HL*8*5*I
LIN**UP*077216002135
SN1**6*EA
HL*9*5*I
LIN**UP*073650913129
SN1**9*EA
HL*10*6*I
LIN**UP*073650913150
SN1**90*EA
HL*11*6*I
LIN**UP*073650913167
SN1**30*EA
HL*12*7*I
LIN**UP*073650914515
SN1**3*EA
HL*13*7*I
LIN**UP*073650914522
SN1**6*EA
CTT*13
SE*44*12989307
GE*1*12989307
IEA*1*000000110
```

Example 856 Product shipped directly to the Store Location

```
ISA*00*          *00*          *12*1234567890     *12*6097684448
*090324*0420*U*00401*000000111*0*P*>
GS*SH*1234567890*6097684448*20090324*045213*12989308*X*04010
ST*856*12989308
BSN*00*00000000012345679*20090324*0420*0001
HL*1**S
TD1*CTN25*1*****25*LB
TD5*O*2*FDEG
REF*BM*00000000012345679
DTM*011*20090325
N1*SF**92*012345
N4**MA
N1*ST**92*0001
N4**NJ
HL*2*1*T
MAN*GM*00100340860075232455
PAL*6***3*25*LB
HL*3*2*O
PRF*87654322
TD1*CTN25*1*****25*LB
N1*MA**92*0001
N4**NJ
HL*4*3*P
MAN*GM*00100340860075232456
HL*5*3*P
MAN*GM*00100340860075232457
HL*6*4*I
LIN**UP*077216002135
SN1**6*EA
HL*7*4*I
LIN**UP*073650913129
SN1**9*EA
HL*8*5*I
LIN**UP*073650913150
SN1**90*EA
HL*9*5*I
LIN**UP*073650913167
SN1**30*EA
HL*10*5*I
LIN**UP*073650914515
SN1**3*EA
HL*11*5*I
LIN**UP*073650914522
SN1**6*EA
```

```
CTT*10
SE*44*12989308
GE*1*12989308
IEA*1*000000111
```