



Merchants Distributors, Inc.

**856
Advance Ship Notice
EDI Documentation Mapping**

**UCS
Version 4010**

12/10/10 3:35 PM

856 Ship Notice/Manifest

FUNCTIONAL GROUP ID = **SH**

VERSION/RELEASE = **004010UCS**

Name	Code	Description
<i>SHIPMENT</i>	S	Data that applies to the whole shipment, such as bill of lading number, lading quantity, supplier code, etc.
<i>ORDER</i>	O	Data related to the receiver's purchase order.
<i>TARE</i>	T	Data related to a shipping container, such as a pallet. If there is no pallet identification, this level should not be used.
<i>PACK</i>	P	Data related to the package, carton, etc. in which the item is shipped.
<i>ITEM</i>	I	Data related to the product being shipped. Normally used to identify the consumer unit.

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Header

Pos #	Seg ID.	Name		
	ST	Transaction Set Header	M	1
100	BSN	Beginning Segment for Ship Notice	M	1

Detail - Shipment

Pos #	Seg ID.	Name			
LOOP ID - 0100					Loop Repeats: 200000
200	HL	Hierarchical Level	M	1	
205	LIN	Item Identification	O	1	
210	SN1	Item Detail (Shipment)	O	1	
225	TD1	Carrier Details (Quantity and Weight)	O	20	
230	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
235	TD3	Carrier Details (Equipment)	O	12	
240	REF	Reference Identification	O	999999	
245	MAN	Marks and Numbers	O	999999	
250	DTM	Date/Time Reference	M	10	
255	PAL	Pallet Information	O	1	

LOOP ID - 0120					Repeat: 200
1600	N1	Name	O	1	
1610	N3	Address Information	O	2	
1615	N4	Geographic Location	O	1	

IMPORTANT NOTE:

Please read before starting the ASN process.

Please be advised ONLY 1 ASN can be sent in for a PO.

If there are issues with an ASN you will need to contact the EDI Group at MDI. ediadmin@alexlee.com

Never send another ASN for the same PO. This causes major issues in both the MDI Buying and Warehousing Systems.

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Detail – Order

Pos #	Seg ID.	Name			
LOOP ID - 0100					200000
200	HL	Hierarchical Level	M	1	
215	PRF	Purchase Order Reference	M	1	
225	TD1	Carrier Details (Quantity and Weight)	O	20	
230	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	

LOOP ID -0120					
1600	N1	Name	O	1	Repeat: 200

Detail - Tare

Pos #	Seg ID.	Name			
LOOP ID – 0100					200000
200	HL	Hierarchical Level	M	1	
245	MAN	Marks and Numbers	O	99999	
255	PAL	Pallet Information	O	1	

LOOP ID - 0120					200
1600	N1	Name	O	1	

Detail – Pack

Pos #	Seg ID.	Name			
LOOP ID – 0100					200000
200	HL	Hierarchical Level	M	1	
205	LIN	Item Identification	M	1	
210	SN1	Item Detail (Shipment)	M	1	
220	PO4	Item Physical Details	O (see NOTE)	1	
245	MAN	Marks and Numbers	O	99999	
250	DTM	Date/Time Reference	O	10	

LOOP ID – 0120					200
1600	N1	Name	O	1	

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Detail – Item

Pos #	Seg ID.	Name			
LOOP ID - 0100					200000
200	HL	Hierarchical Level	M	1	
205	LIN	Item Identification	O	1	
210	SN1	Item Detail (Shipment)	O	1	
220	PO4	Item Physical Details	O	1	
222	PID	Product/Item Description	O	1	
250	DTM	Date/Time Reference	O	10	

Summary

Pos #	Seg ID.	Name			
2000	CTT	Transaction Totals	O	1	
	SE	Transaction Set Trailer	M	1	

Control Level:

SEGMENT: ST (Transaction Set Header)

PURPOSE: To indicate the start of a transaction ST and to assign a control number.

Reference Designator	Data Element	Name	Min/Max	Values
ST01	143	TS ID Code	3/3	856
ST02	329	TS Control Number	4/9	

Semantic:

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

SEGMENT: BSN (Beginning Segment for Ship Notice)

LEVEL: Header

USAGE: Mandatory

MAX USE: 1

LOOP: N/A

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

Reference Designator	Data Element	Name	Min/Max	Values
BSN01	353	Transaction Set Purpose Code	2/2	
BSN02	396	Shipment ID	2/30	See Guidelines
BSN03	373	Date	8/8	See Guidelines
BSN04	337	Time	4/8	See Guidelines
BSN05	1005	Hierarchical Structure Code	4/4	0001
BSN06	640			Not Used
BSN07	641			Not Used

Semantic:

Guidelines:

BSN02: **UNIQUE** (minimum) 8 digit Shipment ID required.
ASNs with the same BSN02 number will not process.

BSN03 is the date the shipment transaction set is created

BSN04 is the time the shipment transaction set is created
MDI requires ONLY 6 digits (HHMMSS)

SEGMENT: HL

LEVEL: Detail

USAGE: Mandatory

MAX USE:

LOOP: 0100

REPEAT: 200000

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

Reference Designator	Data Element	Name	Min/Max	Values
HL01	628	Hierarchical ID Number	1/12	See Guidelines
HL02	734	Hierarchical Parent	1/12	Not used
HL03	735	Hierarchical Level Code	1/2	See Guidelines
HL04	736	Hierarchical Child Code	1/1	Not Used

Guidelines:

HL01 will contain a unique number for each occurrence of the HL segment in the transaction set.

Example: HL01 would be "1" for the initial HL segment and would increment by one in each subsequent HL segment within the same transaction.

HL02 Will be omitted for the first HL segment of the transaction set, since it has no parent.

HL03 Indicates the application context of the series of segments following the current HL segment up to the next occurrence of a HL segment, or the CTT segment, e.g. Shipment, Order, Tare, Pack, and Item.

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

HL03 Code Value(s):

S Shipment

O Order

T Tare

P Pack

I Item

SEGMENT: LIN
LEVEL: Detail
USAGE: Mandatory
MAX USE: 1
LOOP: 0100
PURPOSE: To specify basic item identification data

Reference Designator	Data Element	Name	Min/Max	Values
LIN01	350	Assigned ID	1/20	Not Used
LIN02	235	Prod/Serv ID Qual	2/2	See Guidelines
LIN03	234	Product/Service ID	1/48	See Guidelines
LIN06	235	Prod/Serv ID Qual	2/2	GTIN see guidelines
LIN07	234	Product/Service ID	1/48	GTIN see guidelines

Guidelines: PACK Level Required
 (may also be included in the Item Level but not mandatory **SEE NOTE** regarding Item Level)

LIN02 Code Value(s):
 UA U.P.C. Case Code (2-5-5)

LIN03 Code Value(s):
 U.P.C. Case Code as referenced by LIN02 value
 No self check digits at the end. Put a leading ZERO (0)
 Example **021000626797** (with self check digit)
 should be sent as
002100062679 (with leading 0 and NO self check digit)

LIN06 Code Value(s):
 UK

LIN07 Code Value(s)
 14 digit GTIN interpretation of UPC number
 Self check digits at the end.
 Example **00021000626797** (with self check digit)

ITEM Level Note:

If you include the Item Level then the LIN MUST have a UPC qualifier of UP.

Example:

_ HL*4*3*P.
 _ LIN**UA*003700080051*LT*2305478712.
 _ SN1**90*CA.
 _ MAN*UC*10037000800511.
 _ HL*5*4*I.
 _ LIN**UP*037000800514.
 _ SN1**1080*EA.
 _ PO4*12.
 _ PID*F***80051 BOUNCE SHT SNGL FR 12/40 USE.

SEGMENT: SN1
LEVEL: Detail
USAGE: Mandatory
MAX USE: 1
LOOP: 0100
PURPOSE: To specify line-item detail relative to shipment.

Reference Designator	Data Element	Name	Min/Max	Values
SN101	350	Assigned ID	1/20	Not Used
SN102	382	Number of Units Shipped	1/10	See Guidelines
SN103	355	Unit/Basis Measures Code	2/2	See Guidelines

Guidelines: PACK Level Required
 (may also be included in the Item Level but not mandatory)

SN102 Quantity Shipped

SN103 defines the unit of measurement for SN102
 CA for CASE (based on CASE UPC ordered)

SEGMENT: PRF

LEVEL: Detail

USAGE: Mandatory

MAX USE: 1

LOOP: 0100

PURPOSE: To provide reference to a specific purchase order.

Reference Designator	Data Element	Name	Min/Max	Values
PRF01	324	PO Number	1/22	See Guidelines
PRF02	328	Release Number	1/30	Not Used
PRF03	327	Chg. Order Seq Number	1/8	Not Used
PRF04	373	Date	8/8	
PRF05	350	Assigned ID	1/20	Not Used
PRF06	367	Contract Number	1/30	Not Used
PRF07	92	PO Type Code	2/2	Not Used

Guidelines: ORDER Level Mandatory

PRF01 PO number sent in the Purchase order

PRF04 The date assigned by the purchaser to purchase order.

SEGMENT: PO4

LEVEL: Detail

USAGE: Optional (***) see **NOTE** below)

MAX USE: 1

LOOP: 0100

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

Reference Designator	Data Element	Name	Min/Max	Values
PO401	356	Pack	1/6	Not Used
PO402	357	Size	1/8	Not Used
PO403	355	Unit/Basis Meas Code	2/2	Not Used
PO404	103	Packaging Code	3/5	Not Used
PO405	187	Weight Qualifier	1/2	See Guideline
PO406	385	Gross WT Per Pack	1/9	See Guidelines
PO407	355	Unit/Basis Meas Code	2/2	See Guidelines
PO408	385	Gross Vol Per Pack	1/9	Not Used
PO409	355	Unit/Basis Meas Code	2/2	Not Used
PO410	82	Length	1/8	Not Used
PO411	189	Width	1/8	Not Used
PO412	65	Height	1/8	Not Used
PO413	355	Unit/Basis Meas Code	2/2	Not Used
PO414	810	Inner Pack	1/6	
PO415 thru PO416				Not Used

Guidelines:

*****NOTE:** This segment is Mandatory when there is **BILLED** weight for random weight products.
At the **PACK Level ONLY**

PO405 CODE VALUE(s):
B for Billed Weight

PO406 CODE VALUE(s): Gross Weight Per Pack
Total Actual weight being shipped for UPC code in LIN segment
Total Weight for each Item added together for all of the Qty ordered
(i.e. 2 Cases ordered : 1 weight 3.5 lbs 1 weight 4.0 lbs)
Field would contain 7.5 total weight)

PO407 CODE VALUE(s):
01 for Actual Pounds

SEGMENT: PID

LEVEL: Detail

USAGE: Optional

MAX USE: 1

LOOP: 0100

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

Reference Designator	Data Element	Name	Min/Max	Values
PID01	349	Item Desc Type	1/1	
PID02	750	Prod/Process Char Code	2/3	Not Used
PID03	559	Agency Qual Code	2/2	Not Used
PID04	751	Prod Desc Code	1/12	Not Used
PID05	352	Description	1/80	
PID06	752	Layer/Position Code	2/2	Not Used
PID07	822	Source Subqual	1/15	Not Used
PID08	1073	Yes/No Cond Resp Code	1/1	Not Used
PID09	819	Language Code	2/3	Not Used

Guidelines:

The PID segment is used to provide product/item descriptions in text format.

PID01 Equals "F" then PID05 is used.

SEGMENT: TD1

LEVEL: Detail

USAGE: Optional

MAX USE: 20

LOOP: 0100

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

Reference Designator	Data Element	Name	Min/Max	Values
TD101	103	Packing Code	3/5	TLD
TD102	80	Lading Quantity	1/7	
TD103	23	Commodity Code Qualifier		Not Used
TD104	22	Commodity Code		Not Used
TD105	79	Lading Description		Not Used
TD106	187	Weight Qualifier		G
TD107	81	Weight		
TD108	355	Unit/Basis Measure Code		
TD109	183	Volume		Not Used
TD110	355	Unit/Basis Measure Code		Not Used

SEGMENT: TD5

LEVEL: Detail

USAGE: Optional

MAX USE: 12

LOOP: 0100

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

Reference Designator	Data Element	Name	Min/Max	Values
TD501	628	Routing Sequence	1/2	
TD502	66	ID Code Qualifier	1/2	2
TD503	735	Identification Code	2/80	
TD504	91	Transport Type Code	1/2	
TD505	387	Routing	1/35	
TD506	368	Ship/Order Status Code	2/2	
TD510	732	Transit Time Qualifier	1/4	
TD511	733	Transit Time	1/4	

Guidelines:

TD502 Code Value(s);

2 Standard Carrier Alpha Code (SCAC)

TD510 Code Value(s):

CD Calendar Days (includes weekends & Holidays)

HO Hours]

TD511 is based on the ship date and time in the DTM segment.

SEGMENT: TD3

LEVEL: Detail

USAGE: Optional

MAX USE: 12

LOOP: 0100

PURPOSE: To specify transportation details relating to the equipment used by the carrier.

Reference Designator	Data Element	Name	Min/Max	Values
TD301	40	Equipment Description Code	2/2	
TD302	206	Equipment Initial	1/4	
TD303	207	Equipment Number	1/10	

Guidelines:

This segment is used to specify the trailer number for a truckload shipment.

SEGMENT: REF
LEVEL: Detail
USAGE: Optional
MAX USE: 999999
LOOP: 0100
PURPOSE: To specify identifying information.

Reference Designator	Data Element	Name	Min/Max	Values
REF01	128	Reference ID Qualifier	2/3	BM
REF02	127	Reference ID	1/30	

Guidelines:

This segment is used to specify the bill of lading number. When available, additional iterations of these segments may be used to specify the carrier's PRO number, appointment number etc.

SEGMENT: MAN

LEVEL: Detail

USAGE: Optional

MAX USE: 999999

LOOP: 0100

PURPOSE: To indicate identifying marks and numbers for shipping containers.

Reference Designator	Data Element	Name	Min/Max	Values
MAN01	88	Marks and Number Qualifier	1/2	See Guidelines
MAN02	87	Marks and Numbers	1/48	

Guidelines:

This segment at the **TARE** level is used to specify the identification number for the pallet.

This segment at the **PACK** level is used to specify the identification of the carton.

MAN01 Code Value(s): specific to level as indicated

TARE Level:

GM SSCC-18 and Application Identifier

PACK level

UC U.P.C. Shipping Container Code

SEGMENT: DTM
LEVEL: Detail
USAGE: Mandatory
MAX USE: 10
LOOP: 0100
PURPOSE: To specify pertinent dates and times.

Reference Designator	Data Element	Name	Min/Max	Values
DTM01	374	Date/Time Qualifier	3/3	See Guidelines
DTM02	373	Date	8/8	
DTM03	337	Time	4/8	

Guidelines:

DTM01 Code Value(s): specific to level as indicated

SHIPMENT Level: MUST HAVE 2 DTM segments one for each:
 011 Shipped
 067 Current Schedule Delivery

The following PACK and ITEM levels for DTM are OPTIONAL

PACK Level:
 036 Expiration
 405 Production
 511 Shelf Life Expiration

ITEM Level:
 510 Date Packed
 511 Shelf Life Expiration

SEGMENT: PAL

LEVEL: Detail

USAGE: Optional

MAX USE: 1

LOOP: 0100

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

Reference Designator	Data Element	Name	Min/Max	Values
PAL01	883	Pallet Type Code	1/ 2	
PAL02	884	Pallet Tiers	1/3	
PAL03	885	Pallet Blocks	1/3	
PAL04	356	Pack	1/6	
PAL05	395	Unit Weight	1/8	Not Used
PAL06	355	Unit/Basis Meas Code	2/2	Not Used
PAL07	82	Length	1/8	Not Used
PAL08	189	Width	1/8	Not Used
PAL09	65	Height	1/8	
PAL10	355	Unit/Basis Measures Code	2/2	
PAL11	384	Gross WT Per Pack	1/9	
PAL12	355	Unit/Basis Measures Code	2/2	
PAL13	385	Gross Vol Per Pack	1/6	
PAL14	355	Unit/Basis Measures Code	2/2	
PAL15	399	Pallet Exchange Code	1/1	
PAL16	810	Inner Pack	1/6	Not Used

Guidelines:

PAL04 (Pack) is the number of pieces on the pallet

PAL05 (Unit Weight) is the weight of the pallet alone, before loading.

PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.

PAL09 is the height of the pallet and load.

PAL11 and PAL13 (Gross Weight and Gross Volume) are measures after loading and includes the pallet.

SEGMENT: N1
LEVEL: Detail
USAGE: Optional
MAX USE: 1
LOOP: 0120
REPEAT: 200
PURPOSE: To identify a party by type of organization, name, and code.

Reference Designator	Data Element	Name	Min/Max	Values
N101	98	Entity ID Code	2/3	See Guidelines
N102	93	Name	1/60	
N103	66	ID Code Qualifier	1/2	See Guidelines
N104	67	ID Code	2/80	

Guidelines:

N101 Code Value(s): specific to level as indicated

SHIPMENT Level:
 SF Ship From
 ST Ship To

TARE Level:
 SN Store

N103 Code Value(s): specific to level as indicated

SHIPMENT Level:
 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

TARE Level:
 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
 92 Assigned by Buyer or Buyer's Agent

PACK Level:
 SN Store

SEGMENT: N3

LEVEL: Detail

USAGE: Optional

MAX USE: 1

LOOP: 0120

PURPOSE: To specify the location of the named party.

Reference Designator	Data Element	Name	Min/Max	Values
N101	166	Address Information	1/55	
N102	166	Address Information	1/55	

SEGMENT: N4

LEVEL: Detail

USAGE: Optional

MAX USE: 1

LOOP: 0120

PURPOSE: To specify the geographic place of the named party.

Reference Designator	Data Element	Name	Min/Max	Values
N401	19	City Name	2/30	
N402	156	State or Prov Code	2/2	See Guidelines
N403	116	Postal Code	3/15	
N404	26	Country Code	2/3	Not Used

Guidelines:

N402 Required only if city name (N401) is in U.S. or Canada.

SEGMENT: CTT

LEVEL: Detail

USAGE: Optional

MAX USE: 1

LOOP: N/A

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

Reference Designator	Data Element	Name	Min/Max	Values
CTT01	354	Number of Line Items	1/6	See Guidelines
CTT02 thru CTT07				Not Used

Guidelines:

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

CTT contains the number of HL segments present in the transaction set.

Control Level:

SEGMENT: SE (Transaction Set Trailer)

PURPOSE: To indicate the end of a transaction set and to provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Reference Designator	Data Element	Name	Min/Max	Values
SE01	96	Number of Included Segments	1/10	
SET02	329	TS Control Number	4/9	

Comments:

SE is the last segment of each transaction set.

Guidelines:

The transaction set control number (SE02) is the same as that used in the corresponding header (ST02).