



**Advance Shipping Notice
EDI Guideline**

**856 document
ANSI X12 Format**

Version control				
Date	Author	Version	No.	Updates
Nov-2-2007	JFL	2	0	<p>Page 856.17</p> <p>Comment on SLN06 element changed from:</p> <p>“Price will have a implied decimal point with 5 digit accuracy; i.e., a value of 150000 would 1.50000. This price will always be the most current price on file”</p> <p>To:</p> <p>“Unit price multiplied by 1,000 (Price per thousand)</p> <p>Example:</p> <p>Unit price: 0.002085</p> <p>Price per thousand: 2.085”</p>

This document provides the standard format and established data contents of a ship notice/manifest transaction set (856). An 856 comprises a shipment's contents and other information relating to shipment, packaging, marking, and carrier data, as well as the packing configuration of the shipped goods. It enables the sender to describe a shipment's contents and configuration in varying levels of detail, while providing an ordered flexibility of data conveyed.

Seg. ID	Name	Page	Req. Des.	Use	Loop Repeat
Data Segment Sequence for the Header Level					
ST	Transaction Set Header	856.5	M	1	
BSN	Beg Seg for Ship Notice	856.6	M	1	
DTM	Date/Time Reference	856.7	M	2	
Data Segment Sequence for the Shipment Level					
HL	Hierarchical Level	856.8	M	1	
MEA	Measurements	856.9	M	2	
TD1	Carrier Details (Quantity and Weight)	856.10	M	1	
TD5	Carrier Details (Routing Seq/Transit Tm)	856.11	M	1	
TD3	Carrier Details (Equipment)	856.12	M	1	
REF	Reference Numbers	856.13	M	5	
N1	Name	856.14	M	1	N1/2
REF	Reference Numbers	856.15	O	5	N1/2
Data Segment Sequence for the Item Level					
HL	Hierarchical Level	856.16	M	1	HL/200000
LIN	Item Identification	856.17	M	2	
SN1	Item Detail (Shipment)	856.18	M	1	
SLN	Subline Item Detail	856.19	O	1	
PRF	Purchase Order Reference	856.20	M	1	
PID	Product/Item Description	856.21	O	1	
REF	Reference Numbers	856.22	C	1	
CLD	Load Detail	856.23	O	1	CLD/200
REF	Reference Numbers	856.24	C	200	CLD/200
CUR	Currency	856.25	O	1	
V1	Vessel Identification	856.26	M	1	
Data Segment Sequence for the Trailing Segments					
CTT	Transaction Totals	856.27	M	1	
SE	Transaction Set Trailer	856.28	M	1	

GLOSSARY

Abbreviations in the columns headed "Usage" have the following definitions:

- C Conditional. The presence of this item is dependent on the presence or absence of other items.
- M Mandatory. This data segment shall be included in the transaction set. (Note that though a data segment may be mandatory in a loop of data segments, the loop itself is optional if the beginning segment of the loop is designated as optional).
- N Not Used. This data segment will not be used in this segment at this time.
- O Optional. The presence of this data segment is the option of the sending party.

Segment: ST - Transaction Set Header

Use: 1

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

Comments: The segment is required. The transaction set control number (ST02) in this header must match the transaction set control number (SE02) in the transaction set trailer (SE).

Example: ST*856*0001

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
ST01	143	Transaction Set ID	M ID 3/3	"856"
ST02	329	Transaction Set Control Num	M AN 4/9	A unique number assigned to each transaction set within a functional group, starting with 0001 and incremented by 1 for each subsequent transaction set.

Segment: BSN - Beginning Segment for Ship Notice

Level Heading

Use: 1

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

Comments: The segment is required. The transaction set control number (ST02) in this header must match the transaction set control number (SE02) in the transaction set trailer (SE).

Example: BSN*00*123456*20071101*1810

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
BSN01	353	Transaction Set Purpose	M ID 2/2	"00"=original "05"=replacement
BSN02	396	Shipment Ident.	M AN 2/30	ASN number-unique supplier assigned number that is not repeated within a one year period. CMI recommends use of the packing slip number.
BSN03	373	Date	M DT 8/8	Date of ASN creation Format: CCYYMMDD
BSN04	337	Time	M TM 4/8	Time of ASN creation Format: hhmm

Segment: DTM – Date/Time Reference
Level Heading
Use: 2
Purpose: To specify pertinent dates and times.

Comments:

Example: DTM*011*20071101*1115
DTM*017*20071107*0800

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
DTM01	374	Date/Time Qualifier	M ID 3/3	“011” for the date and time shipment leaves supplier. “017” for the estimated date and time of arrival.
DTM02	373	Date	C DT 8/8	Format: CCYYMMDD
DTM03	337	Time	C TM 4/8	Format: hhmm

Segment: HL – Hierarchical Level

Level: Detail – first segment in each HL loop

Use: 1

Purpose: To identify dependencies among and the content of hierarchically relate groups of data segments.

Comments: The HL segment is used to identify levels of detail information using hierarchical structure, such as relating line item data to shipment data.

Example: HL*1**S (shipment level)

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
HL01	628	Hierarchical ID #	M N0 1/12	“1” for the first HL segment incremented by “1” in each subsequent HL segment within the transaction set.
HL02	734	Hierarchical Parent ID Number	M N0 1/12	The ID number of the parent HL segment. Required for all HL segments at the item level.
HL03	735	Hierarchical Level Code	M ID 1/2	“S” = shipment
HL04	736	Hierarchical Child Code	N	

Segment: MEA – Measurements

Level: Detail (shipment level)

Use: 2

Purpose: To specify physical measurements, including dimensions, tolerances, weights and counts.

Comments: At shipment hierarchical level:
 - Gross weight of shipment
 - Tare weight of shipment

Example: MEA*PD*G*1231*LB
 MEA*PD*T*323*LB

ELEM ID	ELE#	NAME	FEATURES	COMMENTS
MEA01	737	Measurement Ref ID	O ID 2/2	"PD" for physical dimensions
MEA02	738	Measurement Qualifier	O ID 1/3	"G" for gross weight "T" for tare weight
MEA03	739	Measurement Value	C R 1/20	Weight
MEA04	355	Unit of Measure Code	C ID 2/2	"LB" for Pounds



Segment: TD1 – Carrier Details (Qty/Weight)

Level: Detail (shipment level)

Use: 1

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

Comments:

Example: TD1*PLT71*2

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
TD101	103	Packaging Code	O AN 3/5	Any defined code is acceptable ie. "PLT71" for pallet "BOX34" for card-board box "SKD90" for skid
TD102	80	Lading Quantity	C N0 1/7	Number for packages of the type specified in TD101

Segment: TD5 – Carrier Detail (Routing Sequence/Transit Time)

Level: Detail (shipment hierarchical level only)

Use: 1

Purpose: To specify the carrier, routing sequence, and provide transit time information.

Comments: One TD5 is required for each shipment. Do not use more than one TD5.

Example: TD5*B*92*CNTR*M; TD5*B*92*CNTR*A***OR*GRR

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
TD501	133	Routing Sequence Code	O ID 1/2	"B" –carrier is origin/delivery carrier.
TD502	66	Identification Code Qualifier	C ID 1/2	"02" – SCAC code "92" – Assigned by buyer
TD503	67	Identification Code	C AN 2/80	Carrier's SCAC code
TD504	91	Transport. Meth. Mode	C ID ½	"M" for motor, "A" for air, etc. Valid codes listed on next page
TD505	387	Routing	N	
TD506	368	Ship/Order Status Code	N	
TD507	309	Location Qualifier	O ID ½	"OR" for "Origin"; (Required if TD 504 = "A" or "AE")
TD508	310	Location Ident	C AN 1/30	Airport Code (i.e "GRR")

Transportation Method Mode

The following are valid codes for segment TD5, element TD504: Transportation Method Mode:

- A AIR
- AE AIR EXPRESS
- C CONSOLIDATION
- LT LIGHT TRUCKLOAD
- M MOTOR (COMMON CARRIER)

Segment: TD3 – Carrier Details (Equipment)

Level: Detail (shipment hierarchical level only)

Use: 1

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

Comments: Only one TD3 segment is used per shipment to identify the conveyance number.

Example: TD3*TL**5

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
TD301	40	Equipment Desc. Code	C ID 2/2	“TL” for Trailer “AF” for Air Freight
TD302	206	Equipment Initial	N	
TD303	207	Equipment Number	C N 1/10	Conveyance number. (i.e.) Trailer number or air bill number



Segment: REF – Reference Numbers

Level Detail (shipment level)

Use: 5

Purpose: To specify identifying numbers.

Comments: Used in the shipment level for:
Invoice number – required by Arnecom.
Bill of Lading number – required if ground shipment .
Packing slip - required if invoice number is not available.
REF*IK*AW01-2631

Example: REF*BM*67890
REF*PK*2345

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference No. Qualifier	M ID 2/3	"IK" Invoice Number "BM" for bill of lading "PK" for packing slip
REF02	127	Reference Number	C AN 1/30	Value referred to by previous element.

Segment: N1 – Name
 Level: Detail (shipment hierarchical level)
 Use: 2
 Purpose: To identify a party by type of organization, name and code

Comments: The “SF” ship-from, and “ST” ship-to segment are required.

Example: N1*Sf**01*123456789
 N1*ST**01*234567890

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
N101	98	Entity ID Code	M ID 2/3	“ST” for ship-to “SF” for ship-from
N102	93	Name	N	
N103	66	Identification Code Qualifier	C ID ½	“1” for DUNS number “ZZ” for user-assigned or “92” for buyer-assigned number
N104	67	Identification Code	C AN 2/80	Identifying number from N103



Segment: REF - Reference Number

Level: Detail

Use: 1

Purpose: To specify identifying numbers.

Comments: Used to identify reference numbers associated with the “ship-from” or “ship-to”

Example: REF*DK*A1

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference Number Qualifier	M ID 2/3	“DK” for dock code
REF02	127	Reference Number	C AN 1/30	
REF03	352	Description	N	

Segment: HL – Hierarchical level

Level: Detail – first segment in each HL loop

Use: 1

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

Comments: The HL segment is used to identify levels of detail information using hierarchical structure, such as relating line item data to shipment data.

Example: HL*3*1*I (item level)

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
HL01	628	Hierarchical ID #	M N0 1/12	"1" for the first HL segment incremented by "1" in each subsequent HL segment within the transaction set.
HL02	734	Hierarchical Parent ID Number	O N0 1/12	The ID number of the parent HL segment. Required for all HL segments at the item level.
HL03	735	Hierarchical Level Code	M ID 1/2	"1" = item
HL04	736	Hierarchical Child Code	N	

Segment: LIN – Item Identification
Level: Detail (item hierarchical level)
Use: 2
Purpose: To specify basic item identification data.

Comments:

Example: LIN**BP*ABC-12345-123
LIN**VP*0123456789

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
LIN01	350	Assigned Ident.	N	
LIN02	235	Product ID Qualifier	M ID 2/2	“BP”- buyer’s part number “VP” - vendor’s part number
LIN03	234	Product ID	M AN 1/25	Part numbers are up to 25 characters in length only

Segment: SN1 – ITEM DETAIL (SHIPMENT)

Level: Detail

Use: 1

Purpose: To specify line item detail relative to shipment.

Comments: Used to show the quantity being shipped, the unit of measure, and cumulative year to date shipments.

Example: SN1**123*EA*1055

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
SN101	350	Assigned Ident	N	
SN102	382	Number of Units Shipped	M R 1/10	
SN103	355	Unit of Measure Code	M ID 2/2	May be: "EA" - Each "FT" - Foot "DK" - Kilometers "KG" - Kilogram "ZZ" - Mutually Defined
SN104	646	Quantity Shipped to Date	O R 1/15	Cumulative quantity shipped for this model year, including this ASN.

Segment: SLN – SUBLINE ITEM DETAIL

Level: Detail

Use: 1

Purpose: To specify line item detail.

Comments: Used to show the price for the product.

Example: SLN***O***2.085

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
SLN01	350	Assigned Ident	M AN 1/20	
SLN03	662	Relation Ship Code	M ID 1/1	'A' Added, 'D' Deleted, 'I' Included, 'O' Information Only, 'S' Substract
SLN04	380	Quantity	N	
SLN05	1	Composite Unit of Measure	N	
SLN06	212	Unit Price	C N5 14	Unit price multiplied by 1,000 (Price per thousand) Example: Unit price: 0.002085 Price per thousand: 2.085



Segment: PRF – Purchase Order Reference
Level: Detail (item hierarchical level)
Use: 1
Purpose: To provide reference to a specific purchase order.

Comments:

Example: PRF*AM5812B*RNAM58124**20071101

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
PRF01	324	Purchase Order Number	M AN 1/10	As sent in the P.O.
PRF02	328	Release Number	N AN 1/30	
PRF03	327	Chg. Order Seq. No.	N	
PRF04	323	Purchase Order Date	O DT 8/8	ETA Laredo Date Format: CCYYMMDD
PRF05	350	Assigned Ident.	N	
PRF06	367	Contract Number	N	

Segment: PID – Product Item Description

Level: Detail (item hierarchical level)

Use: 1

Purpose: To provide item description.

Comments:

Example: PID*F*Wire Harness.

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
PID01	349	Item description type	M ID 1/1	'F' or 'P'- Free Form
PID02	352	Description	C AN 1/50	Description



Segment: REF - Reference Numbers
Level: Detail (item hierarchical level)
Use: 1
Purpose: To specify identifying numbers.

Comments: If serial numbers are to be sent, then the REF segments are required.

Example: REF*PK*234567
REF*SI*234567

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference NBR Qualifier	M ID 2/2	"PK" for packing slip
REF02	127	Reference Number	C AN 1/30	
REF03	352	Description	N	

Segment: CLD – Load Detail

Level: Detail (item hierarchical level)

Use: 200

Purpose: To specify the number of material loads shipped.

Comments: A CLD segment is required if serial numbers are to be sent.

Example: CLD*123*12**EA

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
CLD01	622	No. Cust. Loads	M NO 1/5	Number of loads shipped
CLD02	382	No. Units Shipped	M R 1/10	Quantity shipped per load
CLD03	103	Packaging Code	N	
CLD04	357	Size	N	
CLD05	355	Unit of Meas. Code	O ID 2/2	Must be the unit of measure code received on the "830"



Segment: REF – Reference Number
Level: Detail (item hierarchical level)
Use: 200
Purpose: To specify identifying numbers.

Comments: If serial numbers are to be sent, then the REF segments are required.

Example: REF*SE*12345678

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
REF01	128	Reference NBR Qualifier	M ID 2/2	“SE” for serial or lot number
REF02	127	Reference Number	C AN 1/30	
REF03	352	Description	N	

Segment: CUR – Currency.

Level Detail (item hierarchical level)

Use: 1

Purpose: To specify the currency used in this document for prices (USD)

Comments:

Example: CUR*CUR*USD

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
CUR01	98	Entity Identifier Code	M ID 2/3	CUR = Currency
CUR02	100	Currency Code	M ID 3/3	USD = US Dollars

Segment: V1 – Vessel Identification.
Level Detail (item hierarchical level)
Use: 1
Purpose: To specify vessel name.

Comments:

Example: V1**AMANO KAISOTEN

ELEM				
ID	ELE#	NAME	FEATURES	COMMENTS
V101	597	Vessel Code	N	
V102	182	Vessel Name	C AN 2/28	

Segment: CTT - Transaction Totals

Level Summary

Use: 1

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

Comments: This segment is intended to provide hash totals to validate transactions completeness and correctness

Example: CTT*2*100

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
CTT01	354	Number of Line items	M N0 1/6	Total number of "HL" segments.
CTT02	347	Quantity Hash Total	O R 1/10	Required hash total of quantity shipped from all SN102 segments.

Segment: SE - Transaction Set Trailer

Level Summary

Use: 1

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

Comments: The transaction control number (SE02) must be identical to the transaction set control number in the ST segment (ST02).

Example: SE*25*00001

ELEM

ID	ELE#	NAME	FEATURES	COMMENTS
SE01	96	Number of Included Segments	M N0 1/10	
SE02	329	Transaction set control number	M AN 4/9	Matches ST02