

VOLVO Dealer Programs 856 Ship Notice/Manifest EDI Guidelines

856 Ship Notice/Manifest (ASN)

General

This document describes Volvo's application of the ANSI X12 transaction set 856 Ship Notice/Manifest.

In the following description the general notation ASN (Advanced Shipping Notice) is used.

The basis for this application is the AIAG implementation guideline version 003 release 50

The specification offers a detailed description of those data elements which will be used.

When it comes to deliveries within the US, Volvo requires following documents to accompany the goods:

- Shipment Advice
- Way bill

The contents and structure of the 856 ASN message

ASN will progressively replace the paper documents as the operative source of information, but during a transition period, ASN and the corresponding documents will be used in parallel.

VOLVO Dealer Programs 856 Ship Notice/Manifest EDI Guidelines

Creation of a ASN

A ASN shall state the actual contents of a shipment.

Notification must therefore not be made until the actual loading procedure is completed and no later than one hour after the goods have been dispatched.

The consignor is free to let consignment consist of one or several articles. Volvo however consider it as an advantage, if all articles and packages, which are delivered to one and the same final delivery point on one and the same occasion - are specified on one and the same ASN

In the event that the quantity of goods defined in a particular consignment is too large to be accommodated in its entirety on one vehicle/trailer/container etc., it is necessary to redefine the consignment so it relates only to the vehicle/trailer/container etc. on which it is being transported.

The Dealer Direct Ship program will only allow one purchase order per ASN and every ASN must have a DEALER Purchase Order.

Structure and basis of the ASN

Initial and closing service segments shall be included in the data file which gives the suppliers ASN.

Within Volvo we have the following segment structure and detailed contents in these segments.



VOLVO Dealer Programs

856 Ship Notice/Manifest EDI Guidelines

Applications of ASC 12

Version: 0108-6

Volvo subset of ANSI standard transaction set 856

Header:

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
010	ST	Transaction Set Header	M	1	
020	BSN	Beginning Segment for Ship Notice	M	1	
040	DTM	Date/Time reference	M	1	

Detail giving shipment information.

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
LOOP ID-HL					20000C
010	HL	Hierarchical Level	M	1	
080	MEA	Measurements	M	1	
120	TD5	Carrier Details (Routing)	M	1	
130	TD3	Carrier Details (Equipment)	M	1	
150	REF	Reference Numbers	M	4	
LOOP ID-HL/N1					4
220	N1	Name	M	4	

Detail giving item information.

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
LOOP ID-HL					20000C
010	HL	Hierarchical Level	M	1	
020	LIN	Line Item	M	1	
030	SN1	Item Detail (Shipment)	M	1	
050	PRF	Purchase Order Reference	M	2	
150	REF	Reference Numbers	M	>1	
LOOP ID-HL/CLD					200
170	CLD	Load Detail	O	1	
180	REF	Reference Numbers	O	200	



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

SUMMARY:

<u>Pos. No</u>	<u>Seg. ID</u>	<u>Req Name</u>	<u>Req Des.</u>	<u>Volvo Max.</u>	<u>Loop Repeat</u>
010	CTT	Transaction Totals	M	1	
020	SE	Transaction Set Trailer	M	1	



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: ST Transaction Set Header Segment for Ship Notice

Loop:

Option: Mandatory

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

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code Code uniquely identifying a transaction set 856 ASN	M ID 3/3
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for the transaction set	M AN 4/9

EXAMPLE: ST*856*747682.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: BSN Beginning Segment for Ship Notice

Loop: Header

Usage: Mandatory

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	M ID 2/2
		Valid Codes: 00 Original	
BSN02	396	Shipment Identification Unique control number assigned by the original shipper to identify a specific shipment.	M AN 2/30
BSN03	373	Date The date on which the message (ASN) was created. It should always match the actual date of dispatch. Format: YYMMDD	M DT 6/6
BSN04	337	Time The moment in time at which the message was created. Format: HHMM	M TM 4/4

EXAMPLE: BSN*00*C12172*010731*1830.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: DTM Date/Time Reference Segment for Ship Notice
Loop: Header
Usage: Mandatory
Purpose: To specify pertinent dates and time.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
DTM01	374	Date/Time Reference	M ID 3/3
		Valid code: 011 Shipped Date	
DTM02	373	Date Date Shipped Format: YYMMDD	M DT 6/6
DTM03	337	Time Time Shipped Format: HHMM	M TM 4/4
DTM04	624	Time/Zone Qualifier	M ID 2/2
		Valid code: ET Eastern Standard Time CT Central Standard Time MT Mountain Time PT Pacific Standard Time	

EXAMPLE: DTM*011*010731*1830*CT.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: HL Hierarchical Level Segment for Ship Notice

Loop: HL Repeat: 200000

Level: Detail - Shipment

Usage: Mandatory

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

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
HL01	628	Hierarchical Id Number Use "01" for the initial HL segment and increment by "1" in each subsequent HL segment.	M AN 1/3
HL03	734	Hierarchical Level Code	M ID 1/2
		Valid code: S Shipment Level	

EXAMPLE: HL*001**S.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: MEA Measurements Segment for Ship Notice.
Loop: HL
Level: Detail - Shipment
Usage: Mandatory
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.
Note: Total gross weight of the consignment

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	M ID 2/2
		Valid codes: PD Physical Dimensions	
MEA02	738	Measurement Qualifier	M ID 1/3
		Valid codes: G Gross Weight of Shipment	
MEA03	739	Measurement Value Total Weight	M R 1/10
MEA04	355	Unit of Measurement Code	M ID 1/2
		Valid code: KG Kilogram	

EXAMPLE: MEA*PD*G*150*KG.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: TD5 Carrier Details (Routing Sequence/Transit-Time) Segment for Ship Notice.

Loop: HL

Level: Detail - Shipment

Usage: Mandatory

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TD501	133	Routing Sequence Code Valid Code: B Origin/Delivery Carrier	M AN 1/2
TD502	66	Identification Code Qualifier Valid Code: 02 SCAC	M ID 1/2
TD503	67	Identification Code See SCAC code list	M AN 2/20
TD504	91	Transportation Method Code Valid Codes: A Air H Customer Pickup LT Less than Trailer Load M Motor Carrier R Rail SR Supplier Truck V Vessel	M ID 1/2

EXAMPLE: TD501*B*02*AVRT*M.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: TD3 Carrier Details (Equipment) Segment for Ship Notice.
Loop: HL Repeats: 2
Level: Detail - Shipment
Usage: Optional
Purpose: To specify transportation details relating to the equipment used by the carrier.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
TD301	40	Equipment Description Code	M ID 1/2
		Valid Code: TL Trailer CN Container	
TD303	207	Equipment Number	X AN 1/10

EXAMPLE: TD3*TL**AD12345.
TD3*CN**38-12356784.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: REF Reference Numbers Segment for Ship Notice
Loop: HL
Level: Detail - Shipment
Usage: Mandatory
Purpose: To specify identifying numbers.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
REF01	128	Reference Number Qualifier	M ID 2/2
		Valid codes: CN Carrier's Reference number/PRO Number	
REF02	127	Reference Number	M AN 1/30

Note:
 If REF01 = CN user Carrier PRO Number,
 If dealer picks up the order use **WILL CALL**
 for Pro Number.
 If supplier deliveries the order use
SUPPLIER DELIVERY for Pro Number.
 If REF01 = SI user Supplier's SID number

EXAMPLE: REF*CN*WILL CALL.
REF*CN*SUPPLIER DELIVERY.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: N1 **Name Segment for Ship Notice**
Loop: HL/N1 **Repeats:** 4
Level: Detail - Shipment
Usage: Mandatory
Purpose: To identify a party by type of organization with name and identity code .

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
N101	98	Entity Identifier Code Code identifying type of party Valid codes BY Buying Party (Purchaser) SO Sold To SF Ship From ST Ship To	M ID 2/2
N102	93	Name Free form name of the party	X AN 1/35
N103	66	Identification Code Qualifier Code identifying responsible party for coding Valid codes: 92 Assigned by Buyer or Buyer's agent	M ID 2/2



VOLVO Dealer Programs

856 Ship Notice/Manifest EDI Guidelines

Applications of ASC 12

Version: 0108-6

N104	67	Identification Code	M AN 2/20
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Note:

If N101= BY use Volvo's location code who
ordered the material

If N101= SO use Sold To from Volvo's 850

If N101= SF use Volvo's assigned supplier no

If N101= ST use ship to from Volvo's 850

EXAMPLE: N1*SF*ABC CORPORATION*92*12345.
N1*ST*CD VOLVO OF MICHIGAN*92*5101D.
N1*SO*ABC CORPORATION*92*56473.
N1*BY*VOLVO PARTS NORTH AMERICA*92*4173.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: HL Hierarchical Level Segment for Ship Notice

Loop: HL Repeat: 200000

Usage: Mandatory

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
HL01	628	Hierarchical Id Number Use "01" for the initial HL segment and increment by "1" in each subsequent HL segment.	M AN 1/3
HL03	734	Hierarchical Level Code	M ID 1/2

Valid code:

I Item Level

EXAMPLE: HL*002**I.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: LIN Item Identification Segment for Ship Notice
Loop: HL
Level: Detail - Order
Option: Mandatory
Purpose: To specify basic item identification data.

Data Element Summary

LIN01	350	Assigned Identification	M AN	1/11
		Note: Use the Purchase Order Line number		
LIN02	235	Product/Service ID Qualifier	M ID	2/2
		Valid Qualifier : BP Buyer's Part Number		
LIN03	234	Product/Service ID Volvo Part number	M AN	1/40
LIN06	235	Product/Service ID Qualifier	X ID	2/2
		Valid Qualifier VP Supplier's Part Number		
LIN07	234	Product/Service ID Supplier's Part Number	X AN	1/40

EXAMPLE: LIN*1*BP*80022213***VP*E123456.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: SN1 Item Detail (Shipment) Segment for Ship Notice

Loop: HL

Usage: Mandatory

Purpose: To specify line item detail relative to shipment.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
SN102	382	Number of Units Shipped Net Quantity Shipped	M R 1/10
SN103	355	Unit or Basis for Measurement Code	M ID 1/2

Valid codes:

EA Each
FT Foot
GA Gallon US
GR Gram
HU 100 Pieces
KG Kilogram
LB Pound
LT Liter
MR Meter
OU Ounce
PK Package
T3 1000 Pieces

Note:

Default value is EA (each).

EXAMPLE: SN1**150*EA.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: PRF Purchase Order Reference Segment for Ship Notice

Loop: HL

Usage: Mandatory

Purpose: To provide reference to specific purchase order.

Special Note: The Dealer programs will only allow one purchase order per ASN.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
PRF01	324	Purchase Order Number	M AN 1/22

Note:

Volvo's Purchase Order Number.

IF Volvo's Purchase Order Number is not provided then **Dealer PO number must be given.**

EXAMPLE: PRF*5101D-10222.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: REF Reference Numbers Segment for Ship Notice

Loop: HL **Max Use:** 5

Level: Item - Detail

Usage: Optional

Note1: This segment is to be used for UPS shipments. UPS has a trace number for each container shipped by UPS. This is considered UPS's PRO number. If UPS is used as the carrier then the trace number is send in the ITEM Level instead of the the shipment level.

Special Note 1: DEALER'S PURCHASE ORDER number MUST be on every ASN.

Special Note 2: ONLY ONE Dealer PURCHASE ORDER per ASN

Speciat Note 3: Only ONE PROGRAM number be ASN

Purpose: To specify identifying numbers.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
REF01	128	Reference Number Qualifier	M ID 2/2
		Valid codes: CN Carrier's Reference number/PRO Number DC Purchase Order Number - Dealer PD Promotion/Deal Number	
REF02	127	Reference Number If REF01 = CN use UPS trace number Use only for UPS shipments If REF01 = DC use Dealer Purchase Order number, if Volvo Purchase Order is not given in PRF01 the Dealer Purchase Order must be given If REF01 = PD use the Sales Promotion Number	M AN 1/30

EXAMPLE: REF*DC*CB20010821.
REF*PD*100.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: CLD Load Detail Segment for Ship Notice
Loop: HL/CLD
Usage: Mandatory
Purpose: To specify the number of material loads shipped.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
CLD01	622	Number of Loads	M N0 1/5
		Note: Number of containers using the same packaging code	
CLD02	382	Number of Units Shipped	M R 1/10
		Note: Number of pieces in package	

EXAMPLE: CLD*1*200.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: REF Reference Numbers Segment for Ship Notice
Loop: HL/CLD Repeat: >1
Level: Item - Detail
Usage: Optional
Purpose: To specify identifying numbers.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
REF01	128	Reference Number Qualifier	M ID 2/2
		Valid code: LS Bar Code Serial Number PK Packing Slip Number	
REF02	127	Reference Number	M AN 1/30
		Note: If REF01 = LS use serial number of the bar code shipping label If REF01 = PK use packing slip number	

EXAMPLE: REF*LS*123453458.



VOLVO Dealer Programs

856 Ship Notice/Manifest

EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: CTT Transaction Totals Segment for Ship Notice

Loop:

Level: Summary

Usage: Mandatory

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

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
CTT01	354	Number of Line Items Total number of HL segments sent	M N0 1/6

EXAMPLE: CTT*01.



VOLVO Dealer Programs
856 Ship Notice/Manifest
EDI Guidelines

Applications of ASC 12

Version: 0108-6

Segment: SE Transaction Set Trailer Segment for Ship Notice.

Loop:

Option: Mandatory

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)

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name/Description/Values</u>	<u>Attributes</u>
SE01	96	Number of Included Segments Total number of segments included in a transaction set including the ST and SE	M NO 1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for the transaction set	M AN 4/9

EXAMPLE: SE*25*747682.



VOLVO Dealer Programs

856 Ship Notice/Manifest EDI Guidelines

Applications of ASC 12

Version: 0108-6

Examples of Application for 856 Implementation

The examples listed below include only mandatory segments and data elements which meet Volvo's requirements.

Example:

An ASN consists of two part/article numbers for the CB Volvo of Michigan. The trucking company is Averitt and the supplier has bar coding in place for shipping labels.

```
ST*856*747682.
BSN*00*C12172*030731*1830.
DTM*011*010731*1830*CT.
MEA*PD*G*150*KG.
HL*001**S.
TD5*B*02*AVRT*M.
TD3*TL**AD12345.
REF*CN*A1234567-09.
N1*SF*ABC CORPORATION*92*12345.
N1*ST*CB VOLVO OF MICHIGAN*92*5101D.
N1*SE*ABC CORPORATION*92*56473.
N1*BY*VOLVO TRUCKS NOTH AMERICA*92*4173.
HL*002**I.
LIN*1*BP*80022213*CH*US*VP*E123456.
SN1**150*EA.
PRF*5101D-10222.
REF*DC*CB20010821.
REF*PD*100.
CLD*2*75.
REF*LS*5436127.
REF*LS*5436128.
HL*002**I.
LIN*4*BP*80822276*CH*US*VP*E123465.
SN1**200*EA.
PRF*5101D-10222.
REF*DC*CB20010821.
REF*PD*100.
CLD*2*100.
REF*LS*5436129.
REF*LS*5436130.
CTT*02.
SE*33*747682.
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