

## **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.

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### **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.



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**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>
<b>LOOP ID-HL</b>					<b>20000</b>
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	
<b>LOOP ID-HL/N1</b>					<b>4</b>
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>
<b>LOOP ID-HL</b>					<b>20000</b>
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	
<b>LOOP ID-HL/CLD</b>					<b>200</b>
170	CLD	Load Detail	O	1	
180	REF	Reference Numbers	O	200	



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**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	



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**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	<b>Transaction Set Identifier Code</b> Code uniquely identifying a transaction set <b>856 ASN</b>	M ID 3/3
ST02	329	<b>Transaction Set Control Number</b> 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.



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**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	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set.	M ID 2/2
		<b>Valid Codes:</b> 00 Original	
BSN02	396	<b>Shipment Identification</b> Unique control number assigned by the original shipper to identify a specific shipment.	M AN 2/30
BSN03	373	<b>Date</b> 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	<b>Time</b> The moment in time at which the message was created. Format: HHMM	M TM 4/4

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



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**Segment:** DTM Date/Time Reference Segment for Ship Notice

**Loop:** Header

**Usage:** Mandatory

**Purpose:** To specify pertinent dates and time.

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### 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.



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**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	<b>Hierarchical Id Number</b> Use "01" for the initial HL segment and increment by "1" in each subsequent HL segment.	M AN 1/3
HL03	734	<b>Hierarchical Level Code</b>	M ID 1/2
		<b>Valid code:</b> S Shipment Level	

**EXAMPLE:** HL\*001\*\*S.



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**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

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### 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.



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**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.



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**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.

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### 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.



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**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.**



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**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 .

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



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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.



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**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.

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**Data Element Summary**

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

**Valid code:**

I Item Level

**EXAMPLE:** HL\*002\*\*I.



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

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### Data Element Summary

LIN01	350	Assigned Identification	M AN	1/11
		<b>Note:</b> Use the Purchase Order Line number		
LIN02	235	Product/Service ID Qualifier	M ID	2/2
		<b>Valid Qualifier :</b> 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
		<b>Valid Qualifier</b> 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.



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**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.



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**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.

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### 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.



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**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, <b>if Volvo Purchase Order is not given in PRF01 the Dealer Purchase Order must be given</b> If REF01 = PD use the Sales Promotion Number	M AN 1/30

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



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

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**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
		<b>Note:</b> Number of containers using the same packaging code	
CLD02	382	Number of Units Shipped	M R 1/10
		<b>Note:</b> Number of pieces in package	

**EXAMPLE:** CLD\*1\*200.



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**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
		<b>Note:</b> If REF01 = LS use serial number of the bar code shipping label If REF01 = PK use packing slip number	

**EXAMPLE:** REF\*LS\*123453458.



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**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.



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**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	<b>Number of Included Segments</b> Total number of segments included in a transaction set including the ST and SE	M NO 1/10
SE02	329	<b>Transaction Set Control Number</b> 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.



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### 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*8082276*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.
```