Fisher & Company, Inc

IMPLEMENTATION GUIDELINES FOR

ANSI X12 EDI CONVENTIONS

856 TRANSACTION SET

SHIP NOTICE / MANIFEST

Version 004010

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Introduction:

This document contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Segment:	**ST** **Transaction Set Header**
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**ST*856*000001**

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
>>	ST01	143	**Transaction Set Identifier Code**	M ID 3/3

Code uniquely identifying a Transaction Set

856   Ship Notice/Manifest

| >> | ST02 | 329 | **Transaction Set Control Number** | M   AN 4/9 |

Must contain a unique number assigned to each transaction set within a functional group. This number must match the value in SE02

Segment: **BSN** Beginning Segment for Ship Notice

Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes:
Semantic Notes:
Comments:
Example: **BSN*00*123456*20070212*0837**

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
>>	**BSN01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**

        00   Original
        01   Cancellation
        05   Replace

	Ref. Des.	Data Element	Name		Attributes
>>	**BSN02**	**396**	**Shipment Identification**	**M**	**AN 2/30**

A unique control number assigned by the original shipper to identify a specific shipment.

	Ref. Des.	Data Element	Name		Attributes
>>	**BSN03**	**373**	**Date**	**M**	**DT 8/8**

Date expressed as CCYYMMDD

Ship notice generation date.

	Ref. Des.	Data Element	Name		Attributes
>>	**BSN04**	**337**	**Time**	**M**	**TM 4/8**

Ship notice generation time.

Segment: **DTM** Date/Time Reference

Position:	040
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**DTM*011*20070304*1230*ES**

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
>>	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			011 Shipped		
>>	**DTM02**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
	DTM03	**337**	**Time**	**C**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
	DTM04	**623**	*Time Code*	**O**	**ID 2/2**

Segment: **HL** **Hierarchical Level**

Position:	010
Loop:	HL Mandatory Repeat: 200000
Level:	Detail - Shipment
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**HL*1**S**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	HL01	628	Hierarchical ID Number	M	AN 1/12

A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.

Use "1" for the shipment level HL segment. Increment by 1 for each subsequent HL segment within the transaction.

	Ref. Des.	Data Element	Name	Attributes	
	HL02	734	Hierarchical Parent ID Number	O	AN 1/12

Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Not Used for this occurrence of the HL segment

	Ref. Des.	Data Element	Name	Attributes	
>>	HL03	735	Hierarchical Level Code	M	ID 1/2
		S	Shipment		

Segment: **MEA** Measurements

Position:	080
Loop:	HL
Level:	Detail – Shipment
Usage:	Mandatory
Max Use:	2
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**MEA*WT*G*1243*LB**

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
	MEA01	**737**	**Measurement Reference ID Code**		O ID 2/2
			WT	Weights	
>>	**MEA02**	**738**	**Measurement Qualifier**		M ID 1/3
			G	Gross Weight (required)	
			N	Net Weight (optional)	
	MEA03	**739**	**Measurement Value**		C R 1/20
			The value of the measurement		
	MEA04	**C001**	**Composite Unit of Measure**		C
			LB	Pound	
			KG	Kilograms	

Segment: **TD1** Carrier Details (Quantity and Weight)

Position:	110
Loop:	HL
Level:	Detail - Shipment
Usage:	Mandatory
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**TD1*CTN90*5**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD101	**103**	**Packaging Code**	**O AN 3/5**

Code identifying the type of packaging.
Any ANSI defined code is acceptable. Typical codes are:
"PLT90 = pallet
"BOX90" = box
"LSE90" = loose
"CTN90" = carton
"SKD90" = skid
"CRT90" = crate
"RCK90" = rack
"BIN90" = bin

Ref. Des.	Data Element	Name	Attributes
TD102	**80**	**Lading Quantity**	**C N0 1/7**

Number of units (pieces) of the lading commodity.

Number of packages of the type specified in TD101.

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)

Position:	120
Loop:	HL
Level:	Detail - Shipment
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	TD5*B*2*CETR*M

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD501	**133**	**Routing Sequence Code**	C ID 1/2
		B Origin/Delivery Carrier (Any Mode)	
TD502	**66**	**Identification Code Qualifier**	C ID 1/2
		2 Standard Carrier Alpha Code (SCAC)	
TD503	**67**	**Identification Code**	C AN 2/80
		Code identifying a party or other code	
		Carrier SCAC Code	
TD504	**91**	**Transportation Method/Type Code**	C ID 1/2
		Code specifying the method or type of transportation for the shipment.	
		ANSI X –12 Data Element Dictionary	

Segment: **TD3** Carrier Details (Equipment)

Position:	130
Loop:	HL
Level:	Detail - Shipment
Usage:	Mandatory
Max Use:	12
Purpose:	To specify transportation details relating to the equipment used by the carrier
Syntax Notes:	
Semantic Notes:	
Comments:	This Segment is Mandatory when the pick-up and delivery equipment number is the same. This maximum use of the TD3 segment is one. This TD3 is used to identify the serial number of the trailer or railcar.
Example:	**TD3*TL* *438573**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
TD301	**40**	**Equipment Description Code**	M	ID 2/2
		Code identifying type of equipment used for shipment.		
TD302	**206**	**Equipment Initial**	O	AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number		
TD303	**207**	**Equipment Number**	M	AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		

Segment: **REF** Reference Identification

Position:	150
Loop:	HL
Level:	Detail - Shipment
Usage:	Mandatory
Max Use:	3
Purpose:	To specify identifying information
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	REF*BM*12345
	REF*PK*67890
	REF*CN*98765431

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
>> REF01	128	Reference Identification Qualifier		M ID 2/3
		AW	Air Waybill Number	
		BM	Bill of Lading Number	
		CN	Carrier's Reference Number	
		FR	Freight Bill Number	
		MB	Master Bill of Lading	
		PK	Packing List Number	
		SI	Shipper's Identifying Number of Shipment	
REF02	127	Reference Identification		C AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment: **FOB** F.O.B. Related Instructions

Position:	210
Loop:	HL
Level:	Detail – Shipment
Usage:	Mandatory
Max Use:	1
Purpose:	To specify transportation instructions relating to shipment
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**FOB*CC**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> **FOB01**	146	**Shipment Method of Payment**	M ID 2/2
		CC Collect	
		PP Prepaid	

Segment: **N1** Name

Position:	220
Loop:	N1 Repeat: 200
Level:	Detail – Shipment
Usage:	Mandatory
Max Use:	2
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	N1*ST*ACME MFG*01*987456321
	N1*SF**92*48977

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
>>	N101	98	**Entity Identifier Code**		M ID 2/3
			ST	Ship To	
			SU	Supplier/Manufacturer	
			SF	Ship From	
	N102	93	**Name**		O AN 1/60
			Free-form name		
>>	N103	66	**Identification Code Qualifier**		M ID 1/2
			01	D-U-N-S Number, Dun & Bradstreet	
			92	Mutually Defined	
>>	N104	67	**Identification Code**		M AN 2/80
			Code identifying a party or other code		

Segment: **CUR** Currency

Position:	310
Loop:	HL
Level:	Detail - Shipment
Usage:	Optional
Max Use:	1
Purpose:	To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**CUR*SE*USD**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	CUR01	98	Entity Identifier Code	C ID 2/3
			SE Selling Party	
>>	CUR02	100	Currency Code	C ID 3/3
			Code (Standard SO) for country in whose currency the charges are specified	

Segment: **HL** **Hierarchical Level**

Position:	010
Loop:	HL Repeat: 200000
Level:	Detail - Item
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**HL*2*1*I**

Data Element Summary

	Ref.	Data		
	Des.	**Element**	**Name**	**Attributes**
>>	**HL01**	**628**	**Hierarchical ID Number**	**M AN 1/12**

A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.

Use "1" for the shipment level HL segment. Increment by 1 for each subsequent HL segment within the transaction.

	HL02	**734**	**Hierarchical Parent ID Number**	**O AN 1/12**

Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Hierarchical ID number of the parent HL segment.

	HL03	**735**	**Hierarchical Level Code**	**M ID 1/2**
>>				

	I		Item

Segment: **LIN** Item Identification

Position:	020
Loop:	HL
Level:	Detail - Item
Usage:	Mandatory
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	
Semantic Notes:	
Comments	
Example:	**LIN**BP*123456*PO*1234563**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	LIN01	**350**	**Assigned Identification**	N AN 1/20
>>	**LIN02**	**235**	**Product/Service ID Qualifier**	M ID 2/2
			BP Buyer's Part Number	
>>	**LIN03**	**234**	**Product/Service ID**	M AN 1/48
			Identifying number for a product or service	
	LIN04	**235**	**Product/Service ID Qualifier**	X ID 2/2
			PO Purchase Order	
	LIN05	**234**	**Product/Service ID**	X AN 1/48
			Identifying number for a product or service	

LIN06	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**
		EC	Engineering Change		
LIN07	**234**	**Product/Service ID**		**X**	**AN1/48**

Segment: **SN1** Item Detail (Shipment)

Position:	030
Loop:	HL
Level:	Detail - Item
Usage:	Mandatory
Max Use:	1
Purpose:	To specify line-item detail relative to shipment
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**SN1**40000*PC*165000**

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
SN101	350	**Assigned Identification**	O	AN 1/20
>> SN102	382	**Number of Units Shipped**	M	R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
>> SN103	355	**Unit or Basis for Measurement Code**	M	ID 2/2
		PC Piece		
SN104	646	**Quantity Shipped to Date**	O	R 1/15
		Number of units shipped to date		

Segment:	**PRF** Purchase Order Reference

Position:	050
Loop:	HL
Level:	Detail - Item
Usage:	Mandatory
Max Use:	1
Purpose:	To provide reference to a specific purchase order
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**PRF*WFC1000**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**PRF01**	**324**	**Purchase Order Number**	**M AN 1/22**
			Identifying number for Purchase Order assigned by the buyer/purchaser	
	PRF02	**328**	**Release Number**	**O AN 1/30**
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	

Segment: **CLD** Container Load Details

Position:	170
Loop:	HL
Level:	Detail - Item
Usage:	Mandatory
Max Use:	1
Purpose:	To provide container packaging information
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**CLD*1*40*CNT71**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> CLD01	622	**Number of Loads**	M N0 1/5
>> CLD02	382	**Number of Units Shipped**	M R 1/10
>> CLD03	103	**Packaging Code**	M AN 5/5

Any ANSI defined code is acceptable. Typical codes are:
      "PLT90 = pallet
      "BOX90" = box
      "LSE90" = loose
      "CTN90" = carton
      "SKD90" = skid
      "CRT90" = crate
      "RCK90" = rack
      "BIN90" = bin

Segment: **REF** Reference Identification

Position:	150
Loop:	HL
Level:	Detail - Item
Usage:	Mandatory
Max Use:	200
Purpose:	To specify identifying information
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**REF*LS*123456789**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	**Reference Identification Qualifier**	**M ID 1/3**

> LS Bar-coded Serial Number (Mandatory)
>
> LT Lot Number (Mandatory for components)
> HC Heat Code (Mandatory for Raw Material)
> (LT or HC Mandatory)

Ref. Des.	Data Element	Name	Attributes
REF02	127	**Reference Identification**	**C AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment: **CTT** **Transaction Totals**

Position:	010
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**CTT*2**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**CTT01**	**354**	**Number of Line Items**	**M N0 1/6**

Total number of line items in the transaction set

Total Number of HL segments

Segment: **SE** Transaction Set Trailer

Position:	020
Loop:	
Level:	Summary
Usage:	Mandatory
Max 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)
Syntax Notes:	
Semantic Notes:	
Comments:	
Example:	**SE*55*000001**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> SE01	96	**Number of Included Segments**	M N0 1/10

Total number of segments included in a transaction set including ST and SE segments

Ref. Des.	Data Element	Name	Attributes
>> SE02	329	**Transaction Set Control Number**	M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. This must match the value in ST02.

This must match the value in ST02.