



EDI 856

Ship Notice/Manifest

856

Ship Notice/Manifest

Functional Group=SH

This Draft Standard for Trial Use 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.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use
040	DTM	Date/Time Reference	O	1			Must use
040	DTM	Date/Time Reference	O	1			Recommended

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					200000		
010	HL	Hierarchical Level - Shipment Level	M	1			Must use
080	MEA	Measurements	O	1			Must use
110	TD1	Carrier Details (Quantity and Weight)	O	1			Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Must use
150	REF	Reference Identification	O	1			Must use
210	FOB	F.O.B. Related Instructions	O	1			Must use
LOOP ID - N1					200		
220	N1	Name	O	1			Must use
LOOP ID - N1					200		
220	N1	Name	O	1			Must use
LOOP ID - HL					200000		
010	HL	Hierarchical Level - Item Level	M	1			Must use
020	LIN	Item Identification	O	1			Must use
030	SN1	Item Detail (Shipment)	O	1			Must use
050	PRF	Purchase Order Reference	O	1			Must use
070	PID	Product/Item Description	O	1			Used
110	TD1	Carrier Details (Quantity and Weight)	O	1			Optional *See Note
150	REF	Reference Identification	O	1			Must use



Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	M	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	M	ID	2/2	Must use
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information	M	ID	2/2	Must use
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
		ZZ Mutually Defined				
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element. Sender DUNS.	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				

EDI 856

Ship Notice/Manifest

ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them. HFI DUNS = 004293478	M	AN	15/15	Must use						
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use						
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use						
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.	M	ID	1/1	Must use						
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>00401</td><td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</td></tr></table>	<u>Code</u>	<u>Name</u>	00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use		
<u>Code</u>	<u>Name</u>											
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997											
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use						
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	Must use						
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>P</td><td>Production Data</td></tr><tr><td>T</td><td>Test Data</td></tr></table>	<u>Code</u>	<u>Name</u>	P	Production Data	T	Test Data	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>											
P	Production Data											
T	Test Data											
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator. Use "***".	M	AN	1/1	Must use						

GS Functional Group Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name SH Ship Notice/Manifest (856)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners. Use Sender DUNS.	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners. HFI DUNS = 004293478	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		Code Name X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	M	AN	1/12	Must use
		Code Name 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through				

October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>856</td><td>Ship Notice/Manifest</td></tr></table>	<u>Code</u>	<u>Name</u>	856	Ship Notice/Manifest				
<u>Code</u>	<u>Name</u>									
856	Ship Notice/Manifest									
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use				

Semantics:

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

BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
BSN01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Must use						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>00</td><td>Original</td></tr><tr><td>05</td><td>Replace</td></tr></table>	<u>Code</u>	<u>Name</u>	00	Original	05	Replace				
<u>Code</u>	<u>Name</u>											
00	Original											
05	Replace											
BSN02	396	Shipment Identification Description: A unique control number assigned by the original shipper to identify a specific shipment. This number should not be repeated within a one year timeframe. Use Bill of Lading number.	M	AN	2/15	Must use						
BSN03	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use						
BSN04	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59)	M	TM	4/4	Must use						

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

DTM Date/Time Reference

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Must use

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
DTM01	374	Date/Time Qualifier Description: Code specifying type of both date and time	M	ID	3/3	Must use				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>011</td><td>Shipped</td></tr></table>	<u>Code</u>	<u>Name</u>	011	Shipped				
<u>Code</u>	<u>Name</u>									
011	Shipped									
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Must use				
DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59)	X	TM	4/4	Must use				
DTM04	623	Time Code: Code specifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or –and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and _ are substituted by P and M in the codes that follow.	O	ID	2/2	Optional				

DTM Date/Time Reference

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Recommended

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
		Code Name 017 Estimated Delivery				
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Used
DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59)	X	TM	4/8	Used

Syntax:

- 1. R020305 - At least one of DTM02,DTM03,DTM05 is required

Loop HL

Pos: 010

Repeat:
200000

Mandatory

Loop: HL Elements: N/A

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level - Shipment Level	M	1		Must use
080	MEA	Measurements	O	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	O	1		Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		Must use
150	REF	Reference Identification	O	1		Must use
210	FOB	F.O.B. Related Instructions	O	1		Must use
220		Loop N1	O		200	Must use
220		Loop N1	O		200	Must use

HL

Hierarchical Level - Shipment Level

Pos: 010

Max: 1

Detail - Mandatory

Loop: HL

Elements: 3

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use				
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used				
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>S</td><td>Shipment</td></tr></table>	<u>Code</u>	<u>Name</u>	S	Shipment				
<u>Code</u>	<u>Name</u>									
S	Shipment									

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

MEA Measurements

Pos: 080	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies	O	ID	2/2	Must use
		Code Name				
		PD Physical Dimensions				
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Must use
		Code Name				
		G Gross Weight				
MEA03	739	Measurement Value Description: The value of the measurement	X	R0	1/20	Must use
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure	X	Comp		Must use
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	M	ID	2/2	Must use
		Code Name				
		KG Kilogram				
		LB Pound				

Semantics:

- 1. MEA04 defines the unit of measure for MEA03.

TD1

Carrier Details (Quantity and Weight)

Pos: 110	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage										
TD101	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; is not used	O	AN	3/3	Must use										
		<table><tr><th>Code</th><th>Name</th></tr><tr><td>BOX</td><td>Box</td></tr><tr><td>ROL</td><td>Roll</td></tr><tr><td>SKD</td><td>Skid</td></tr><tr><td>TBN</td><td>Tote Bin</td></tr></table>	Code	Name	BOX	Box	ROL	Roll	SKD	Skid	TBN	Tote Bin				
Code	Name															
BOX	Box															
ROL	Roll															
SKD	Skid															
TBN	Tote Bin															
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	X	N0	1/7	Must use										

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement	O	ID	1/2	Used
		Code Name				
		B Origin/Delivery Carrier (Any Mode)				
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Used
		Code Name				
		2 Standard Carrier Alpha Code (SCAC)				
TD503	67	Identification Code Description: Code identifying a party or other code	X	AN	2/10	Must use
TD504	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment	X	ID	1/2	Must use
		Code Name				
		A Air				
		H Customer Pickup				
		M Motor (Common Carrier)				
		U Private Parcel Service				
		ZZ Mutually defined				

REF Reference Identification

Pos: 150	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		BM Bill of Lading Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/5	Must use

FOB F.O.B. Related Instructions

Pos: 210	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Must use

To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use
		Description: Code identifying payment terms for transportation charges				
		<u>Code</u>		<u>Name</u>		
		CC		Collect		
		PP		Prepaid (by Seller)		

Semantics:

1. FOB01 indicates which party will pay the carrier.

Loop N1

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
220	N1	Name	O	1		Must use

N1

Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u> SF Ship From				
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Must use
		<u>Code</u> <u>Name</u> 1 D-U-N-S Number, Dun & Bradstreet				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	9/9	Must use

Loop N1

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
220	N1	Name	O	1		Must use

N1

Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		Code Name ST Ship To				
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Must use
		Code Name 92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: 01 - McGaw 02 - Green Pointe 04 - AIT (Alabama) 08 —John Glenn Warehouse 20 - Obregon 22 - Monclova 80 - Consigned Inventory (Laminating Facility)	X	AN	2/2	Must use

Loop HL

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level - Item Level	M	1		Must use
020	LIN	Item Identification	O	1		Must use
030	SN1	Item Detail (Shipment)	O	1		Must use
050	PRF	Purchase Order Reference	O	1		Must use
070	PID	Product/Item Description	O	1		Used
150	REF	Reference Identification	O	1		Must use

HL**Hierarchical Level - Item Level**

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use				
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used				
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>I</td><td>Item</td></tr></table>	<u>Code</u>	<u>Name</u>	I	Item				
<u>Code</u>	<u>Name</u>									
I	Item									

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Must use

To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set. Currently not being used by HFI.	O	AN	1/20	Not used				
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>BP</td><td>Buyer's Part Number</td></tr></table>	<u>Code</u>	<u>Name</u>	BP	Buyer's Part Number	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
BP	Buyer's Part Number									
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	6/8	Must use				

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

To specify line-item detail relative to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
SN101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set. Currently not being used by HFI.	O	AN	1/20	Not used																
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set (Max 2 decimals if established with accounting.)	M	R0	1/10	Must use																
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Select one of these codes: <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>EA</td><td>Each</td></tr><tr><td>GA</td><td>Gallon</td></tr><tr><td>KG</td><td>Kilogram</td></tr><tr><td>LB</td><td>Pound</td></tr><tr><td>LT</td><td>Liter</td></tr><tr><td>MR</td><td>Meter</td></tr><tr><td>YD</td><td>Yard</td></tr></table>	<u>Code</u>	<u>Name</u>	EA	Each	GA	Gallon	KG	Kilogram	LB	Pound	LT	Liter	MR	Meter	YD	Yard	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>																					
EA	Each																					
GA	Gallon																					
KG	Kilogram																					
LB	Pound																					
LT	Liter																					
MR	Meter																					
YD	Yard																					
SN104	646	Quantity Shipped to Date Description: Number of units shipped to date (Accumulative quantity)	O	R0	1/15	Must use																

Comments:

1. Suppliers may only send decimals if agreed by Accounting, max R2.
2. SN103 defines the unit of measurement for both SN102 and SN104.
3. Paperwork, Labels, Invoices and edi must all match.

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Must use

To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser. Revision 6: PRF01 will only hold the 5 digit PO number.	M	AN	5/5	Must use
PRF02	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. Revision 6: PRF02 added to hold the 2 digit release number. Numbers should range from 01-99	M	AN	2/2	Must use

Note: All POs issued must have an electronic ASN sent. This includes mass production, spot buys, samples, etc ...

PID Product/Item Description

Pos: 070	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): *See Note

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description	M	ID	1/1	Must use
		Code Name				
		F Free-form				
PID05	352	Description Description: A free-form description to clarify the related data elements and their content.	X	AN	1/30	*See Note

***Textile Mills:** Use the PID05 for the style number. For example, TR276BORGNH154L. This will be a required field for the mills.

Syntax:

1. R0405 - At least one of PID04,PID05 is required

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Optional * See Note

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; is not used	O	AN	3/3	Must use
		Code Name				
		ROL Roll				
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	X	N0	1/7	Must use

*Note: This segment is mandatory only for suppliers with rolled material. This number should reflect the total number of rolls for each part.

REF Reference Identification

Pos: 150	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use
To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification (Invoice number preferred.)	M	ID	2/3	Must use
		Code Name				
		SO Shipper's Order (Invoice Number)				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/15	Must use

CLD Roll Identification

Max: 200
Detail Optional*
Loop: HL

User Option (Usage): Required for some suppliers only if notified.

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CLD01	0622	Roll Number Identification	M	ID	7/10	Must use
CLD02	0382	Net Meters	M	AN	1/3	Must use
CLD03	0103	Dyelot Number	M	AN	1/10	Must use

REF Reference Identification

Pos: 150	Max: 1
Detail Optional*	
Loop: HL	Elements: 2

User Option (Usage): Required for some suppliers only if notified.

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		LS Bar code serial number				
REF02	127	Reference Identification Description: Roll ID	X	AN	1/15	Must use

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must Use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of LIN segments in the transaction set.	M	N0	1/6	Must use
CTT02	347	Hash Total Description: Sum of values of the SN102, a total of the number of units shipped in this transaction. (Max 2 decimals if established with accounting.)	O	R0	1/10	Used

Comments:

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

SE**Transaction Set Trailer**

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

Pos:	Max: 1
Summar / - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use

Sample Data

```

ISA*00*Authorizat*00*Security I*01*Interchange Sen*01*004293478*020926*2218*U*00401*000017955*0*P^~
GS*SH*Application Sen*Application Rec*19960515*2218*000000001*X*004010~
ST*856*0001~
BSN*00*Shipm*19960515*2218~
DTM*011*19960515*2218~
DTM*017*19960515*2330~
HL*1*0*S~
MEA*PD*G*14652*KG~
TD1*BOX*15337~
TD5*B*2*12345ABC*A~
REF*BM*12345~
FOB*CC~
N1*SF*Name*1*12345XXXX~
N1*ST*Name*92*01~
HL*2*1*I~
LIN**BP*Product/~
SN1**12540*EA*126034~
PRF*12345*01~
PID*F****Description~
TD1*ROL*8~
REF*SO*INVOICE #~
CTT*1*12540~
SE*20*0001~
GE*1*000000001~
IEA*1*000017955~

```

Revision Summary:

Revision 1 7/24/03

1. The BSN02 has been expanded to a max 15 character field.
2. PRF01 has been expanded to a max 10 character fields. HFI POs are 6 digits; however, the field has been expanded to accommodate additional release numbers or drawing changes.
3. Textile Mills Only: Use the PID05 for the style number. For example, TR276BORGNH154L. This will be a required field for the mills.

Revision 2 10/14/03

1. CTT is a required segment.
2. CTT02 the Hash Total is to be a sum of the SN102.

Revision 3 11/09/05

Added locations in the N104 ST "loop.

Revision 4 4/24/06

Added the DTM04

Revision 5 9/28/06

Dyelot & Roll ID (CLD and REF Item Level)
Added the TD1 Item level - Roll count by item

Revision 6 1/31/08

N104 Addition of location 08 John Glenn Warehouse
PRF01 will only hold the 5 digit PO number.
PRF02 added to hold the 2 digit release number.
Note: All POs issued must have an electronic ASN sent. This includes mass production, spot buys, samples, etc....
Added notation to quantity fields, max 2 decimals if established with accounting.
Invoice number preferred for REF Segments within the LIN loops.
TD1 in each LIN segment is needed for all rolled goods – needed for customs