

Implementation Guide for Bill of Lading - XNI Standards

X12/V4010/856: 856 Ship Notice/Manifest, UCC Vendors

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856 Ship Notice/Manifest

Functional Group=SH

Purpose: 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.

Not Defined:

<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>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

<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	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

<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>
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
020	LIN	Item Identification	M	1			Used
030	SN1	Item Detail (Shipment)	M	1			Used
050	PRF	Purchase Order Reference	M	1			Used
060	PO4	Item Physical Details	M	1			Used
070	PID	Product/Item Description	O	200			Used
110	TD1	Carrier Details (Quantity and Weight)	O	20			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12			Used
130	TD3	Carrier Details (Equipment)	O	12			Used
150	REF	Reference Identification	M	>1			Used
190	MAN	Marks and Numbers	M	>1			Used
200	DTM	Date/Time Reference	M	10			Used
210	FOB	F.O.B. Related Instructions	O	1			Used
LOOP ID - N1					200		
220	N1	Name	M	1			Used
240	N3	Address Information	M	1			Used
250	N4	Geographic Location	M	1			Used

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>
020	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<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>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Comments:

- 2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

User Note 1:

The scope of the 856 shall not exceed the contents of the associated bill of lading. There can be more than one ship notice referencing the same bill or lading, but there will never be one ship notice referencing multiple bills of lading.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

Purpose: 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	M	ID	2/2	Must use

Description: Code to identify the type of information in the Authorization Information

CodeList Summary (Total Codes: 7, Included: 1)

Code Name

00 No Authorization Information Present (No Meaningful Information in I02)

ISA02	I02	Authorization Information	M	AN	10/10	Must use
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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)

User Note 1:

Filled with blanks

ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
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Description: Code to identify the type of information in the Security Information

CodeList Summary (Total Codes: 2, Included: 1)

Code Name

00 No Security Information Present (No Meaningful Information in I04)

ISA04	I04	Security Information	M	AN	10/10	Must use
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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)

User Note 1:

Filled with blanks

ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
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Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

User Note 1:

"Your" ID qualifier

All valid standard codes are used. (Total Codes: 38)

ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
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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

User Note 1:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>"Your" sender ID</i>				
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
		CodeList Summary (Total Codes: 38, Included: 1)				
		Code Name				
		ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
		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				
ISA09	I08	Interchange Date	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	Interchange Time	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		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. (Total Codes: 1)				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments				
		All valid standard codes are used. (Total Codes: 14)				
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
		All valid standard codes are used. (Total Codes: 2)				
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		All valid standard codes are used. (Total Codes: 3)				
ISA16	I15	Component Element Separator	M		1/1	Must use
		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				

Comments:

1. Sample ISA:

2. ISA*00* *00* *ZZ*xxxxxx *ZZ*CVSDSGT *010924*1432*U*00400*000000038*0*T*?

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

Purpose: To indicate the beginning 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>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

CodeList Summary (Total Codes: 240, Included: 1)

Code Name

SH Ship Notice/Manifest (856)

GS02	142	Application Sender's Code	M	AN	2/15	Must use
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Description: Code identifying party sending transmission; codes agreed to by trading partners

User Note 1:

"Your" sender ID

GS03	124	Application Receiver's Code	M	AN	2/15	Must use
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Description: Code identifying party receiving transmission; codes agreed to by trading partners

GS04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

GS05	337	Time	M	TM	4/8	Must use
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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)

GS06	28	Group Control Number	M	N0	1/9	Must use
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Description: Assigned number originated and maintained by the sender

GS07	455	Responsible Agency Code	M	ID	1/2	Must use
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Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

All valid standard codes are used. (Total Codes: 2)

GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
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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

CodeList Summary (Total Codes: 39, Included: 1)

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.

User Note 1:

*Sample GS : GS*SH*xxxxxx*CVSDSGT*20010924*1432*38*X*004010*

ST Transaction Set Header

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

User Option (Usage): Must use

Purpose: 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	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
All valid standard codes are used. (Total Codes: 298)						
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

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: 5

User Option (Usage): Must use

Purpose: 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	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

CodeList Summary (Total Codes: 65, Included: 1)

Code Name

00 Original

BSN02	396	Shipment Identification	M	AN	2/30	Must use
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Description: A unique control number assigned by the original shipper to identify a specific shipment

User Note 1:

Purpose: Vendors internal tracking number; Attribute for visibility

BSN03	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

BSN04	337	Time	M	TM	4/8	Must use
-------	-----	------	---	----	-----	----------

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)

BSN05	1005	Hierarchical Structure Code	M	ID	4/4	Used
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Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

CodeList Summary (Total Codes: 61, Included: 1)

Code Name

0001 Shipment, Order, Packaging, Item

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Loop Hierarchical Level

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

User Option (Usage): Must use

Purpose: 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	M	1		Must use
020	LIN	Item Identification	M	1		Used
030	SN1	Item Detail (Shipment)	M	1		Used
050	PRF	Purchase Order Reference	M	1		Used
060	PO4	Item Physical Details	M	1		Used
070	PID	Product/Item Description	O	200		Used
110	TD1	Carrier Details (Quantity and Weight)	O	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		Used
130	TD3	Carrier Details (Equipment)	O	12		Used
150	REF	Reference Identification	M	>1		Used
190	MAN	Marks and Numbers	M	>1		Used
200	DTM	Date/Time Reference	M	10		Used
210	FOB	F.O.B. Related Instructions	O	1		Used
220		Loop N1	M		200	Used

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.

User Note 1:

Expected Segments

Here is a list of the expected segments at each HL level of hierarchy of S-O-T-I. These are the only segments whose contents will be mapped. Any segment that is not marked is mandatory. In the descriptions for each segment, please review the user notes for exceptions to the mandatory rule.

Within each segment, the attributes shown are the ones that will be mapped to CVS.

For UCC-approved vendors, Tare (T) level data is required.

Shipment S:

TD1
TD3 (optional)
TD5
REF
DTM
FOB (optional)
N1
N3
N4

Order O:

PRF
TD1
N1
N3
N4

Tare T:

MAN

Item I:

LIN
TD5
MAN (optional, if omitted, the MAN data in T level will be inherited by I level)
SN1
PID (optional)
PO4

HL Hierarchical Level

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

User Option (Usage): Must use

Purpose: 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	M	AN	1/12	Must use

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

User Note 1:

The shipment level specifies the details relative to the entire physical shipment and associated bill of lading.

The shipment level is mandatory and may occur only once per transaction set. The value in the HL01 at the shipment level will always be 1 for the first occurrence of the HL segment in the transaction set.

The Order level is always subordinate to the shipment level. Therefore the parent number for the HL-O will always be 1.

The tare level is subordinate to the order level. At least one iteration of this hierarchyloop is required for every parent order loop

The item level is subordinate to the tare level. At least one iteration of this loop is required for every parent tare loop.

The Item Level is repeated once for each SKU packed within that shipping container.

HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Must use
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Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

User Note 1:

Mandatory for "O", "T", and "I" levels

HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
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Description: Code defining the characteristic of a level in a hierarchical structure

CodeList Summary (Total Codes: 170, Included: 4)

Code Name

I	Item
O	Order
S	Shipment
T	Shipping Tare

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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

LIN Item Identification

Pos: 020	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 7

User Option (Usage): Used

Purpose: 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	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1:

Mandatory for application. The LIN01 is a sequential control number assigned to each line item on the BOL.

LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

User Note 1:

Mandatory for Application

CodeList Summary (Total Codes: 477, Included: 1)

Code Name

BP Buyer's Part Number

LIN03	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

User Note 1:

Buyer's part number (CVS Article Number)

Mandatory for Application

From the CVS 850 - Buyers part number is taken from PO111.

LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

User Note 1:

Mandatory for Application

CodeList Summary (Total Codes: 477, Included: 1)

Code Name

VN Vendor's (Seller's) Item Number

LIN05	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

User Note 1:

Vendor's part number

Mandatory for Application

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <p>User Note 1: <i>Mandatory for Application</i></p> <p>CodeList Summary (Total Codes: 477, Included: 2)</p> <p>Code Name</p> <p>UI U.P.C. Consumer Package Code (1-5-5) UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)</p>						
LIN07	234	Product/Service ID	X	AN	1/48	Used
<p>Description: Identifying number for a product or service</p> <p>User Note 1: <i>Mandatory for Application</i></p>						

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. LIN02 through LIN07 provide for three different product/service IDs for each item.

User Note 1:

The LIN segment must exist at the Item level.

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: 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	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1:

SN101 is a sequential control number assigned to each line item on the order and helps distinguish between like items on the order. If sent on the sales order/warehouse order, it must be referenced on the ship notice here.

SN102	382	Number of Units Shipped	M	R	1/10	Must use
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Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

User Note 1:

*Quantity to be delivered
Mandatory for Application*

SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

User Note 1:

*Value from the PO103 from the purchase order.
Purpose: Attribute for Visibility
Mandatory for Application*

CodeList Summary (Total Codes: 794, Included: 3)

Code Name

CA Case
EA Each
PC Piece

Semantics:

- SN101 is the ship notice line-item identification.

Comments:

- SN103 defines the unit of measurement for both SN102 and SN104.

User Note 1:

The SN1 segment must exist at the Item level.

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: 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	M	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

User Note 1:

*Mandatory for Application
Taken from CVS PO - BEG03*

PRF02	328	Release Number	O	AN	1/30	Used
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Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

PRF04	373	Date	O	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

User Note 1:

The PRF segment must exist at the Order level.

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

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>
PO401	356	Pack	M	N0	1/6	Used

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container

PO414	810	Inner Pack	O	N0	1/6	Used
-------	-----	-------------------	---	----	-----	------

Description: The number of eaches per inner container

User Note 1:

Mandatory PO401 or PO401 / PO414 combination to represent eaches per case. The SN1 segment will describe what units the quantity is being shipped. The PO401 or Po401.PO414 combination will allow for conversions between units

Semantics:

- 1.

Comments:

- 1.

User Note 1:

The PO4 segment must exist at the Item level.

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: 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>
PID05	352	Description	X	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

Comments:

- 1.

User Note 1:

The PID segment is used at the Item level.

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

Purpose: 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	O	AN	3/5	Used

Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required
All valid standard codes are used. (Total Codes: 203)

TD102	80	Lading Quantity	X	NO	1/7	Used
-------	----	------------------------	---	----	-----	------

Description: Number of units (pieces) of the lading commodity

User Note 1:

*Number of dispatch units per shipment
 Purpose: Attribute for Visibility*

TD106	187	Weight Qualifier	O	ID	1/2	Used
-------	-----	-------------------------	---	----	-----	------

Description: Code defining the type of weight

CodeList Summary (Total Codes: 51, Included: 1)

Code Name

G Gross Weight

TD107	81	Weight	X	R	1/10	Used
-------	----	---------------	---	---	------	------

Description: Numeric value of weight

User Note 1:

*Shipment Gross Weight
 Purpose: Attribute for Visibility*

TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

User Note 1:

*Shipment Gross Weight unit of measure
 Purpose: Attribute for Visibility*

All valid standard codes are used. (Total Codes: 794)

TD109	183	Volume	X	R	1/8	Used
-------	-----	---------------	---	---	-----	------

Description: Value of volumetric measure

User Note 1:

Shipment Gross volume

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>Purpose: Attribute for Visibility</i>				
TD110	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		User Note 1:				
		<i>Purpose: Attribute for Visibility</i>				
		All valid standard codes are used. (Total Codes: 794)				

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0607 - If TD106 is present, then TD107 is required.
3. P0708 - If either TD107 or TD108 is present, then the other is required.
4. P0910 - If either TD109 or TD110 is present, then the other is required.

User Note 1:
The TD1 segment is used at the Shipment level.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: 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>
TD502	66	Identification Code Qualifier	M	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

User Note 1:
Mandatory for Application

CodeList Summary (Total Codes: 215, Included: 1)

<u>Code</u>	<u>Name</u>
2	Standard Carrier Alpha Code (SCAC)

TD503	67	Identification Code	M	AN	2/80	Used
-------	----	---------------------	---	----	------	------

Description: Code identifying a party or other code

User Note 1:
*Carrier Identification - Carrier SCAC
Mandatory for Application
Use CPUP for a customer pickup*

TD504	91	Transportation Method/Type Code	X	ID	1/2	Used
-------	----	---------------------------------	---	----	-----	------

Description: Code specifying the method or type of transportation for the shipment

User Note 1:
Used at Shipment level.

All valid standard codes are used. (Total Codes: 71)

TD505	387	Routing	X	AN	1/35	Used
-------	-----	---------	---	----	------	------

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

User Note 1:
Used at Item level.

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.

Semantics:

- 1.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

User Note 1:

The TD5 must exist at the Shipment level and Item level.

TD503 is necessary at both Shipment and Item.

TD504 is necessary at Shipment.

TD505 is used in Item.

TD3 Carrier Details (Equipment)

Pos: 130	Max: 12
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

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

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>
TD303	207	Equipment Number	X	AN	1/10	Used
		Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
TD307	102	Ownership Code	O	ID	1/1	Used
		Description: Code indicating the relationship of equipment to carrier or ownership of equipment				
		All valid standard codes are used. (Total Codes: 5)				
TD309	225	Seal Number	O	AN	2/15	Used
		Description: Unique number on seal used to close a shipment				
TD310	24	Equipment Type	X	ID	4/4	Used
		Description: Code identifying equipment type				

User Note 1:

The TD3 segment is used at the Shipment level.

REF Reference Identification

Pos: 150	Max: >1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: 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	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

User Note 1:

The value in the REF[BM] must be the same reference number that is reported on by the carriers in their status messages

If unable to provide the carrier's SCAC in the TD503 then remove the REF[CN] segment

CodeList Summary (Total Codes: 1503, Included: 2)

Code Name

BM Bill of Lading Number

CN Carrier's Reference Number (PRO/Invoice)

REF02	127	Reference Identification	X	AN	1/30	Used
-------	-----	--------------------------	---	----	------	------

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

User Note 1:

Mandatory for Application

BM qualifier is Mandatory for Application

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

The REF segment must exist at the the Shipment level

Use the BM qualifier to specify the Bill of Lading.

Use the CN qualifier to specify the Carrier Pro-Bill.

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

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>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

User Note 1:

Mandatory for Application

CodeList Summary (Total Codes: 20, Included: 1)

Code Name

AI UCC/EAN-128 Application Identifier (AI) and Data

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
-------	----	-------------------	---	----	------	----------

Description: Marks and numbers used to identify a shipment or parts of a shipment

User Note 1:

HL[T] – Pallet UCC#

Mandatory for Application

Semantics:

- 1.

User Note 1:

The MAN segment must exist at the Tare level.

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: 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	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

User Note 1:

011 = vendors date when it was shipped (Mandatory)
 067 = Scheduled delivered - carriers committed delivery date For the Schedule Delivery event at the POL
 068 = Scheduled departed event (Optional)

CodeList Summary (Total Codes: 1112, Included: 3)

Code Name

011 Shipped
 067 Current Schedule Delivery
 068 Current Schedule Ship

DTM02	373	Date	M	DT	8/8	Used
-------	-----	------	---	----	-----	------

Description: Date expressed as CCYYMMDD

User Note 1:

Mandatory for Application

DTM03	337	Time	M	TM	4/8	Used
-------	-----	------	---	----	-----	------

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)

User Note 1:

Mandatory for Application

DTM04	623	Time Code	O	ID	2/2	Used
-------	-----	-----------	---	----	-----	------

Description: Code identifying 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

CodeList Summary (Total Codes: 51, Included: 1)

Code Name

LT Local Time

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.

User Note 1:

The DTM segment must exist at the Shipment level.

FOB F.O.B. Related Instructions

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

User Option (Usage): Used

Purpose: 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

All valid standard codes are used. (Total Codes: 28)

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

User Note 1:

The FOB segment is used at the Shipment level.

Loop Name

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

User Option (Usage): Used

Purpose: 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	M	1		Used
240	N3	Address Information	M	1		Used
250	N4	Geographic Location	M	1		Used

User Note 1:

The N1 Loop must exist at the Shipment Level and Order levels, according to the qualifiers as described in the N1 segment section.

N1 Name

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

User Option (Usage): Used

Purpose: 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	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

User Note 1:

All are Mandatory for Application, except BT

CodeList Summary (Total Codes: 1312, Included: 6)

Code Name

- BT Bill-to-Party
- BY Buying Party (Purchaser)
- SF Ship From
- SH Shipper
- ST Ship To
- VN Vendor

N102	93	Name	M	AN	1/60	Used
------	----	-------------	---	----	------	------

Description: Free-form name

User Note 1:

Mandatory for Application

N103	66	Identification Code Qualifier	M	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67)

User Note 1:

Mandatory for Application

The listed codes are expected when N104 data is DUNS (1, 01), DUNSplus4 (9), UCC/EAN (UL) or DEA (11). Other codes are also allowed.

CodeList Summary (Total Codes: 215, Included: 4)

Code Name

- 1 D-U-N-S Number, Dun & Bradstreet
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
- 11 Drug Enforcement Administration (DEA)
- UL UCC/EAN Location Code

N104	67	Identification Code	M	AN	2/80	Used
------	----	----------------------------	---	----	------	------

Description: Code identifying a party or other code

User Note 1:

Shipment [S] level

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

		<i>When N101 qualifier = VN use sellers DUNS #</i>				
		<i>When N101 qualifier = SF use vendors DUNS # -</i>				
		<i>When N101 qualifier = ST use CVS DUNS +4</i>				
		<i>When N101 qualifier = ST and N103 = 11, use DEA values</i>				
		<i>Purpose: Message Routing/ownership</i>				
		<i>Order [O] level</i>				
		<i>When qualifier = BY use CVS DUNS</i>				
		<i>Mandatory for Application</i>				

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N3 Address Information

Pos: 240	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

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>
N301	166	Address Information	M	AN	1/55	Must use

Description: Address information

User Note 1:

*When N101 qualifier = SF or ST then the purpose is visibility - Mandatory for Application
When N101 qualifier = BY or VN then the segment is not required*

N302	166	Address Information	O	AN	1/55	Used
------	-----	---------------------	---	----	------	------

Description: Address information

N4 Geographic Location

Pos: 250	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

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>
N401	19	City Name	M	AN	2/30	Used
Description: Free-form text for city name						
User Note 1: <i>Mandatory for Application</i>						
N402	156	State or Province Code	M	ID	2/2	Used
Description: Code (Standard State/Province) as defined by appropriate government agency						
User Note 1: <i>Mandatory for Application</i>						
N403	116	Postal Code	O	ID	3/15	Used
Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)						
N404	26	Country Code	M	ID	2/3	Used
Description: Code identifying the country						
User Note 1: <i>Mandatory for Application</i>						

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

User Note 1:

*When N101 qualifier = SF or ST then the purpose is visibility and event creation , and the segment is mandatory
When N101 qualifier = BY or VN then the segment is not required*

SE Transaction Set Trailer

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

User Option (Usage): Must use

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)

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	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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	M	N0	1/6	Must use
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	Group Control Number	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				

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
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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	M	N0	1/5	Must use
Description: A count of the number of functional groups included in an interchange						
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
Description: A control number assigned by the interchange sender						