856 Advance Ship Notice

(serialized)

MUVIQ USA, LLC

North America OE Division

ANSI ASC X12 4010

Version: 5.0

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Change Control

Version ID	Date of Update	Updated By:	Description of Version and Change
2015001	10/01/15	Evelyn Herrick	Initial Deployment of this document.
2018001	02/14/18	Evan Meyer	Changes resulting from ERP Migration to CMS: 1. Within the "Business Processing – Data Content" section, all reference to Manifest# has been removed. 2. DTM02 – removed 017 (delivery date) as an option. 3. LIN08/LIN09 - removed as Manifest# no longer used. 4. PRF04 - added as Optional (PO Date) 5. Updated example 856 and example segments to reflect changes made. 6. Removed "Dayco N.A. Helpdesk" from contacts.
2018002	03/28/18	Evan Meyer	Additional changes resulting from ERP Migration to CMS: 1. REF – added segment for barcode label serial number. Optional until 10/01/2018. 2. Updated example 856 and added comments throughout the document that are directly related to this change.
2018003	05/23/18	Evan Meyer	Additional changes resulting from ERP Migration to CMS: 1. BSN02 note regarding SID max size changed from 12 to 15 characters. 2. Removed all reference to 862 and 824. 3. Updated example 856 and added comments throughout the document that are directly related to this change. 4. Changes within the Business Processing Data Content" section.
2018004	11/6/2024	Justin Phoumsengkeo	Changed document to be MUVIQ controlled

Standards Overview

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.

Business Overview

EDI provides many benefits to support your business in achieving its objectives. EDI reduces paperwork (forms handling), data entry labor costs, printing costs, and postage costs. EDI drives out inefficiencies in the business process.
Organizations choosing EDI should consider that the full benefits are only received when both parties fully integrate the EDI data into their application systems.

This standard provides the standardized format and establishes the data contents of an Advance ship notice transaction set. A ship notice lists 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.

Business Processing – Data Content

- An 856 (ASN) must be transmitted at the time that the carrier leaves the suppliers dock.
- The SID, packing list, and serial numbers may not be duplicated in a 24-month period.
- **If you are shipping with an AETC number,** you must create a separate ASN for the part(s) you are shipping with an AETC number. Parts being shipped without an AETC number must be on a different ASN.
- Failure to transmit an Accepted ASN will be reflected negatively in your supplier rating.
- It is the supplier's responsibility to ensure that an ASN is received and accepted by MUVIQ USA.

- MUVIQ will return a 997 Functional Acknowledgement within 30 minutes of receiving all ASN.

- ASN Rejections will be communicated to suppliers via E-mail.

- Rejected ASN's are to be corrected and re-transmitted by the supplier prior to MUVIQ USA receiving the shipment. Failure to correct and re-transmit an ASN will result in your supplier rating being negatively impacted and payment delayed.

- If you experience problems or do not understand the errors communicated to you, please contact MUVIQ EDI Support at email address **edisupport@dayco.com**

Additional Information

Testing Procedure: Additional information regarding EDI Startup and Testing Procedures with *MUVIQ USA, LLC is* available on request

Codes: All acceptable codes required to implement the 856 Advance Ship Notice and other transaction sets, have been consolidated into an appendix document and are available on request

Contacts

EDI Certification and Support:
MUVIQ EDI Support Team – edisupport@dayco.com

Business Relations:
Contact your plant or MUVIQ Buyer

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856

Advance Ship Notice

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.

Headers:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ISA	Interchange Control Header	M	1			Must use
0200	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ST	Transaction Set Header	M	1			Must use
0200	BSN	Beginning Segment for Ship Notice	M	1			Must use
0400	DTM	Date/Time Reference	O	10			Must use

Detail:

LOOP ID - HL					200000	Must Use
0100	HL	Hierarchical Level (Shipment Level)	M	1		Must use
0800	MEA	Measurements	O	40		Must use
1100	TD1	Carrier Details(Lading)	O	12		Must use
1200	TD5	Carrier Details(Routing)	O	12		Must use
1300	TD3	Carrier Details(equipment)	O	12		Must use
1500	REF	Reference Identification	O	<1		Must use
LOOP ID - N1					200	Must Use
2200	N1	Name	O	1		Must use
3000	ETD	Excess Transportation Detail	O	1		Conditional
LOOP ID - HL					200000	Must Use

0100	HL	Hierarchical Level (Item Level)	M	1			Must use
0200	LIN	Item Identification	O	1			Must use
0300	SN1	Item Detail	O	1			Must use
0400	SLN	Subline Item Detail	O	1000			Must use
0500	PRF	Purchase Order Number	O	1			Must use
LOOP ID - CLD					**200**		**Must Use**
1700	CLD	Load Detail	O	1			Must use
1800	REF	Reference Identification	M	200			Must use

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	CTT	Transaction Totals	O	1			Must use
0200	SE	Transaction Set Trailer	M	1			Must use

Trailers:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	GE	Functional Group Trailer	M	1			Must use
0200	IEA	Interchange Control Trailer	M	1			Must use

The following is an example 856. Three different part numbers are being shipped on two pallets. The first pallet has a single part number with multiple containers (S) that are linked to a Master label (M). The second pallet has the other two part numbers, each having multiple contains (S) that are link to a Mixed label (G).

All supplier mapping and set up should be based on the 856 Specs and not this example transaction.

Example:

*ISA*00* *00* *ZZ*XXXXXXXXX *01*150148617 *180209*1100*U*00401*180000001*P*>~*
*GS*SH*XXXXXXXXX*150148617*20180209*1100*180000001*X*004010~ ST*856*8560001~ BSN*00*1926*20180209*105600~*
*DTM*011*20180209*1056*ET~*
*HL*1**S~ MEA*PD*N*1626*LB~*
*MEA*PD*G*1683*LB~ TD1*PLT94*2~*
*TD5*B*2*XPO*TL~*
*TD3*TL*CWSE*1234567890~*
*REF*PK*107605~*
*N1*ST*MUVIQ USA - SPRINGDALE*92*112~ N1*SU*SUPPLIER*
*NAME*92*123456~*
*HL*2*1*I~ LIN**BP*100-*
00017~
*SN1**240*EA*2350~*
*SLN*UP*I****14.03*EA~*
*PRF*112000187***20180103~*
*CLD*3*80~ REF*LS*M123456000001*
*REF*LS*S123456000002*
*REF*LS*S123456000003*
*REF*LS*S123456000004*
*HL*3*1*I~*
*LIN**BP*100-00027-54~*
*SN1**80*EA*80~*
*SLN*UP*I****11.10*EA~*
*PRF*112000187***20180103~*
*CLD*4*20~ REF*LS*G123456000005*
*REF*LS*S123456000006*
*REF*LS*S123456000007*
*REF*LS*S123456000008*
*REF*LS*S123456000009*
*HL*4*1*I~ LIN**BP*28-*
0019~
*SN1**600*EA*30000~*
*SLN*UP*I****22.35*EA~*
*PRF*112000187***20180103~*
*CLD*2*300~ REF*LS*G123456000005*
*REF*LS*S123456000010*
*REF*LS*S123456000011 CTT*3*920~*
*SE*44*8560001~ GE*1*180000001~*
*IEA*1*180000001~*

Segment:	**ISA** Interchange Control Header
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To start and identify an interchange of zero or more functional groups and interchange-related control segments
Example:	
ISA*00* *00* *01*150148617 *01*123456789 *180209*1100*U*00401*180000001*0*P	

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA02	I02	**Authorization Information** 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** Code to identify the type of information in the Security Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA04	I04	**Security Information** 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** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2	Must use
ISA06	I06	**Interchange Sender ID** 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	M	AN	15/15	Must use

ISA07	I05	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **Code Name** 01 Duns (Dun & Bradstreet)	M	ID	2/2	Must use
ISA08	I07	**Interchange Receiver ID** 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	M	AN	15/15	Must use
ISA09	I08	**Interchange Date** Date of the interchange	M	DT	6/6	Must use
ISA10	I09	**Interchange Time** Time of the interchange	M	TM	4/4	Must use
ISA11	I10	**Interchange Control Standards Identifier** 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** Code specifying the version number of the interchange control segments **Code** **Name** 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
ISA13	I12	**Interchange Control Number** A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	**Acknowledgment Requested** Code sent by the sender to request an interchange acknowledgment (TA1) **Code** **Name** 0 No Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	**Usage Indicator** Code to indicate whether data enclosed by this interchange envelope is test, production or information **All valid standard codes are used.**	M	ID	1/1	Must use

ISA16	I15	**Component Element Separator**	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	M	1/1	Must use

Segment:	**GS** Functional Group Header
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	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
Semantic:	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.
Example:	GS*SH*150148617*XXXXXXXXX*20180209*1100*180000001*X*004010

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code** Code identifying a group of application related transaction sets **Code** **Name** SH Advance Ship Notice (856)	M	ID	2/2	Must use
GS02	142	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	**Date** Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	**Time** 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** Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	**Responsible Agency Code** Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 **All valid standard codes are used.**	M	ID	1/2	Must use
GS08	480	**Version / Release / Industry Identifier Code** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments. **Code** **Name**	M	AN	1/12	Must use

004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Segment:	**ST** Transaction Set Header
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To Indicate the start of a transaction set and to assign a control number
Semantic:	The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate set definition
Example:	ST*856*8560001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set **Code** **Name** 856 Advance Ship Notice	M	ID	3/3	Must use
ST02	329	**Transaction Set Control Number** 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

Segment:	**BSN** Beginning Segment for Ship Notice
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To indicate the beginning of an Advance Ship Notice transaction set and transmit identifying numbers and dates
Semantic:	1: BSN03 is the date the shipment transaction is created. 2: BSN04 is the time the shipment transaction is created
Example:	BSN*00*12345678*20180209*1056

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN01	353	**Transaction Set Purpose Code** Code identifying purpose of transaction set. **Code** **Name** 1 Original 2 Cancellation 05 Replacement 12 Test	M	ID Must use	2/2	
BSN02	396	**Shipment Identification** Unique number assigned by supplier Note: *Shipment ID 15 Characters Maximum*	M	AN	2/30	Must use
BSN03	373	**Date** Date expressed as CCYYMMDD	M	DT	8/8	Must use
BSN04	337	**Time** Time expressed as HHMM	M	TM	4/8	Must use

Segment:	**DTM** Date/time reference
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax	R020305 – At least one of DTM02,DTM03 or DTM05 is required
Example:	DTM*011*20180209*1056*ET

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
		Code **Name** 011 Shipped Date				
DTM02	373	**Date** Date expressed as CCYYMMDD	C	DT	8/8	Must use
DTM03	337	**Time** Time expressed as HHMM	C	TM	4/4	Must use
DTM04	623	**Time Code** Code Identifying the time	O	ID	2/2	Must use
		Code **Name** ET Eastern Standard Time ED Eastern Daylight savings time CT Central Time MT Mountain Time PT Pacific Time				

Segment:	**HL** Hierarchical Level Shipment Level
Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Mandatory**
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Notes:	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. At least one occurrence of the HL loop is mandatory at both Shipment and Order levels.
Comments:	**1** The HL segment defines a top-down/left-right ordered structure. **2** 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** 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.
Example:	HL*1**S

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL03	735	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **Code** **Name** S Shipment Level	O	AN	3/3	Must use

Segment:	**MEA** Measurements
Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Mandatory**
Max Use:	40
Purpose:	To specify physical measurements, including dimension tolerances, weights and counts.
Syntax:	**2** Only one of MEA08 or MEA03 may be present. **3** At least one of MEA03 MEA05 MEA06 or MEA08 is required. **4** If MEA03 is present, then MEA04 is required.
Notes:	One MEA segment for gross weight and one MEA segment for net weight are required at the Shipment level. (Net weight is gross weight minus tare weight.)
Example:	MEA*PD*G*4419*LB MEA*PD*N*4359*LB

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	**Measurement Reference ID Code** Code specifying the application of physical measurement cited	M	ID	2/2	Must use
		Code **Name** PD Physical Dimensions				
MEA02	738	**Measurement Qualifier** Code identifying the type of measurement	M	ID	1/3	Must use
		Code **Name** G Gross Weight N Net Weight				
MEA03	739	**Measurement Value** The value of the measurement	C	R	1/10	Must use
MEA04	355	**Unit or Basis for Measurement Code** Code identifying the basic unit of	M	ID	2/2	Must use
		Code **Name** LB Pounds				

Segment:	**TD1** Packaging Code
Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Mandatory**
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity
Comment:	Required at the Shipment level and **should be the highest handling unit**. The TD1 segment should match what is on the Bill of Lading.
Syntax:	**1** If TD101 is present, then TD102 is required.
Example:	TD1*PLT94*4

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code** Note: *Use any acceptable code in the ASC X12 Data Element Dictionary.*	O	ID	5/5	Must use
TD102	80	**Lading Quantity** Number of units (pieces) of the lading commodity Note: *Number of packages of type specified in TD101*	C	NO	1/7	Must use

Segment:	**TD5** Carrier Details/Routing Sequence Code
Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Mandatory**
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Comment:	**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.
Syntax:	**1** At least one of TD502 TD504 or TD505 is required. **2** If TD502 is present, then TD503 is required.
Notes:	One TD5 segment is required at the Shipment level for each ASN (856).
Example:	TD5*B*2*CWSE*TL

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	133	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement **Code** **Name** B Origin/Delivery Carrier (Any Mode)	O	ID	1/2	Must use
TD502	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code **Code** **Name** 2 Standard Carrier Alpha Code (SCAC)	C	ID	1/2	Must use
TD503	67	**Identification Code** Carrier SCAC Code	C	ID	2/17	Must use
TD504	91	**Transportation Method/Type Code** Code specifying the method of transportation for the shipment	C	ID	1/2	Must use

Note:

Use any acceptable code in the ASC X12 Data Element Dictionary.

Segment:	**TD3** Carrier Details(Equipment)
Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Mandatory**
Max Use:	12
Purpose:	To specify transportation details relating to the equipment used by the carrier
Syntax:	**1** If TD302 is present, then TD303 is required.
Notes:	Only one TD3 segment is used per ASN (856) at the shipment level to state the identifying number of the trailer or railcar.
Example:	TD3*LT*CWSE*1234567890

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD301	40	**Equipment Description Code** Code identifying type of equipment used for shipment Note: *Use any acceptable code in the ASC X12 Data Element Dictionary.*	M	ID	2/2	Must use
TD302	206	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used
TD303	207	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number	C	AN	1/10	Must use

Segment:	**REF** Reference Identification
Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Mandatory**
Max Use:	200
Purpose:	To specify identifying numbers.
Example:	REF*PK*107605

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Number Qualifier** Code qualifying the Reference Number. **Code** **Name** PK Packing list #	M	ID	2/2	Must use
REF02	127	**Reference Number** Reference number as specified by the Reference Number Qualifier.	M	AN	1/30	Must use

Segment:	**N1** Name
Level:	**Detail - Shipment**
Loop:	N1 **REPEAT:** 200
Usage:	**Mandatory**
Max Use:	1
Purpose:	To identify a party by type of organization, name ,and code
Syntax:	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:	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.
Example:	N1*SU*SUPPLIER NAME*92*123456 N1*ST*MUVIQ USA - SPRINGDALE*92*112

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **Code** **Name** SU Supplier ST Ship To Note: *Must match supplier code and ship-to sent on the 830*	M	ID	Must use	
N102	93	**Name** Free-form name	X	AN	1/60	Used
N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **Code** **Name** 92 Supplier or Plant Code	X	ID	1/2	Must use
N104	67	**Identification Code** Code identifying a party Note: *Supplier Code – Assigned by Muviq Buyer* *Plant Code – Assigned by Muviq Buyer*	X	AN	2/80	Must use

Segment:	**ETD** Excess Transportation Detail

Level:	**Detail - Shipment**
Loop:	HL
Usage:	**Conditional**
Max Use:	1
Purpose:	To specify information relating to premium transportation
Syntax:	P0304 - If either ETD03 or ETD04 is present, then the other is required.
Example	ETD*ZZ*A*AE*123456

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ETD01	626	**Excess Transportation Reason Code** Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation	M	ID	1/2	Conditional
		Code **Name** ZZ Mutually Defined				
ETD02	627	**Excess Transportation Responsibility Code** Code identifying the organization responsible for paying the premium transportation costs	M	ID	1/1	Conditional
		Code **Name** A Customer Plant Responsibility S Supplier Responsibility				
ETD03	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	X	ID	2/3	Conditional
		Code **Name** AE Authorization for Expense Number ETD04				
	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Conditional

Segment:	**HL** Hierarchical Level Shipment Level
Level:	**Detail - Item**
Loop:	HL Repeat: 200000
Usage:	**Mandatory**
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Notes:	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. At least one occurrence of the HL loop is mandatory at both Shipment and Order levels.
Comments:	**1** The HL segment defines a top-down/left-right ordered structure. **2** 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. **3** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate. **4** 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.
Example:	HL*2*1*I

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Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure *"1" is used for the shipment level HL Segment. Increment by 1 for each subsequent HL segment within the transaction.*	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to *A value "1" is required here at this "Item Level" referring to the Parent ("Order" level)*	O	AN	1/12	Must use
HL03	735	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **Code** **Name** I Item Level	O	AN	1/2	Must use

Segment:	**LIN** Item Identification
Level:	**Detail - Item**
Loop:	HL
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify basic item identification data
Example:	LIN**BP*34-0108

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN02	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service **Code** **Name** BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	**Product/Service ID** **MUVIQ** Part Number	M	AN	1/48	Must use

Segment:	**SN1 Item Detail (Shipment)**
Level:	**Detail - Item**
Loop:	HL
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify line-item detail relative to shipment
Comments:	SN103 defines the unit of measurement for both SN102 and SN104.
Example:	SN1**200*EA*5000

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Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN102	382	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	**Unit or Basis for Measurement Code** 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
SN104	646	**Quantity Shipped to Date** Number of units shipped to date	O	R	1/15	Must use

Segment:	**SLN** Sub-Line Item Detail
Level:	**Detail - Item**
Loop:	HL
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify unit price detail
Example:	SLN*UP**I***12.58*EA

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max		Usage
SLN01	350	**Assigned ID** Code qualifying the Reference Identification **Code** **Name** UP Unit Price	M	AN Must use	1/20		
SLN03	662	**Relationship Code** Note: *Use 'I' for Include*	M	ID	1/1		Must use
SLN06	127	**Unit Price** Price per Unit of this product	X	R3	1/15		Must use
SLN07	355	**Unit or Basis for Measurement** 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

Segment:	**PRF Purchase Order Reference**
Level:	**Detail - Order**
Loop:	HL
Usage:	**Mandatory**
Max Use:	1
Purpose:	To provide reference to a specific purchase order
Example:	PRF*112000187***20180103

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	324	**Purchase Order Number** Purchase Order number as received on the 830	M	AN	1/22	Must use
PRF04	373	**Date** Date expressed as CCYYMMDD	O	DT	8/8	Used

Segment:	**CLD** Load Detail
Level:	**Detail - Item**
Loop:	HL/CLD
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify the number of material loads shipped
Notes:	This segment is used by the supplier to inform the customer about the number of customer material loads shipped (e.g. containers), and the quantity per load. The customer will use this information to prepare move tags and/or bar-coded labels to aid in moving material.
Comments:	The Sum of all the CLD loops (CLD01 multiplied by the CLD02) for this part shipped MUST BE EQUAL to the SN102 quantity shipped for this part. For the example that follows, the SN102 value must be 200 (5 containers of 40).
Example:	CLD*5*40

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CLD01	622	**Number of Loads** Number of customer-defined loads shipped by the supplier	M	N0	1/5	Must use
CLD02	382	**Number of Units shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set. Total quantity per Load.	M	R	1/10	Must use

Segment:	**REF** Reference Identification
Level:	**Detail – Item**
Loop:	CLD
Usage:	**Mandatory**
Max Use:	200
Purpose:	To specify identifying numbers.
Notes:	Additional information regarding labels can be found in the "**Barcode Specifications**" guide for MUVIQ North America OE division.
Comments:	One unique serial number is required for each package Unit. The serial number should begin with a 1-character data identifier prefix, followed by the 6-digit supplier code, followed by a 6 to 10-digit supplier generated unique number. This character string shall not be repeated within 365 days. **1** Valid data identifier prefixes are S, M, or G. **2** The CLD loop must be repeated for every new M or G serial#. **3** Every container (S) must have a Serial#. **4** A Master (M) Serial# is required if there is more than one container of the same part on the pallet. **5** A Mixed Load (G) Serial# is required if there is more than one part on a pallet. **6** A Master or Mix Load Serial# is not needed if a single container is the highest handling unit.
Example:	REF*LS*M123456000001 REF*LS*S123456000002 REF*LS*S123456000003 REF*LS*S123456000004 REF*LS*S123456000005

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Number Qualifier** Code qualifying the Reference Number. **Code** **Name** LS Bar-Coded Serial Number	M	ID	2/2	Must use
REF02	127	**Reference Number** Barcode serial number including the data identifier prefix.	M	AN	1/30	Must use

Segment:	**CTT** Transaction totals
Level:	**Summary**
Loop:	NA
Usage:	**Mandatory**
Max Use:	1
Purpose:	This segment is intended to provide hash totals to validate transaction completeness and correctness.
Example:	CTT*3*200

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items** Total number of HL Segments	M	N0	1/6	Must use
CTT02	347	**Hash Total** Sum of quantity shipped Element SN102	O	R	1/10	Must use

Segment:	**SE** Transaction Set Trailer
Level:	**Summary**
Loop:	NA
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)
Comment:	SE is the last segment of each transaction set.
Example:	SE*24*8560001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** 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** 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

Segment:	**GE** Functional Group Trailer
Level:	**Summary**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To indicate the end of a functional group and to provide control information
Set Notes:	The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06
Example:	GE*24*180000001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included** 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** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Segment:	**IEA** Interchange Control Trailer
Level:	**Summary**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To define the end of an interchange of zero or more functional groups and interchange related control segments
Example:	IEA*1*180000001

Data Element Summary

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


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