

LBMX EDI - ELECTRONIC DATA INTERCHANGE  
856 (ADVANCED SHIP NOTICE: ASN) SPECIFICATIONS

**ANSI X12 V4010**

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## Summary of Changes

Date	Name	Section	Description of Change	Reason for Change
Aug 2021	SBAIRD	REF (S)	REF*OQ	Order Number at Shipment
Nov 2022	SBAIRD	REF (O)	REF*SN	Removed from Order level
May 2023	SBAIRD	REF (L)	REF*SE	Changed SN qualifier to SE

# Structure of This Guide

<b><i>Summary of Changes</i></b>	<p>In this section, you will find the history of this document, from the day of its creation to its present state. Specifically, you will find:</p> <ul style="list-style-type: none"><li>● When this document was created</li><li>● Who created it</li><li>● What had been changed</li><li>● Where the changes were located</li><li>● Who changed it</li><li>● When the change was made</li></ul>
<b><i>Structure of This Guide</i></b>	<p>In this section, you will find a high-level description of what is in each section of this guide.</p>
<b><i>Document Conventions</i></b>	<p>In this section, you will find the typographical conventions that are used in this guide. You will also learn how to interpret the Segment Specifications and other pertinent information.</p>
<b><i>Key Terms</i></b>	<p>In this section, you will find a list of key terms and their definitions. You will also find the definition of codes and acronyms used in various sections of this document.</p>
<b><i>Contact Information</i></b>	<p>In this section, you will find your contact information. Specifically, you will find the following information about your Trading Partner EDI Contact Person, and your Technical Contact Person at LBMX:</p> <ul style="list-style-type: none"><li>● Name</li><li>● Telephone Number</li><li>● Fax Number</li><li>● Electronic Mail Address</li></ul> <p>You will also find the following information about Trading Partner's Head Office:</p> <ul style="list-style-type: none"><li>● Conventional Mail Address</li><li>● Telephone Number</li><li>● Fax Number</li><li>● Web Address</li></ul>
<b><i>Purpose of This Transaction</i></b>	<p>In this section, you will find a brief description of the business purposes of this document and how Trading Partner intends to achieve these through the use of this transaction set.</p>
<b><i>Standard and Version</i></b>	<p>In this section, you will find the Electronic Data Interchange Standards and Version of these Standards that Trading Partner supports and intends to use with our Trading Partners in Electronic Data Interchange.</p>
<b><i>Segment Summary</i></b>	<p>In this section, you will find an overview of all the segments that Trading Partner uses in this transaction set. You will find out whether these segments are mandatory or optional, and what their purposes are.</p>
<b><i>Segment Specifications</i></b>	<p>In this section, you will find a detail definition of each segment. You will find out which data elements are included in each segment, and all the necessary information regarding each element.</p>
<b><i>Sample Document</i></b>	<p>In this section, you will find a sample document of Trading Partner's Implementation of this transaction set.</p>

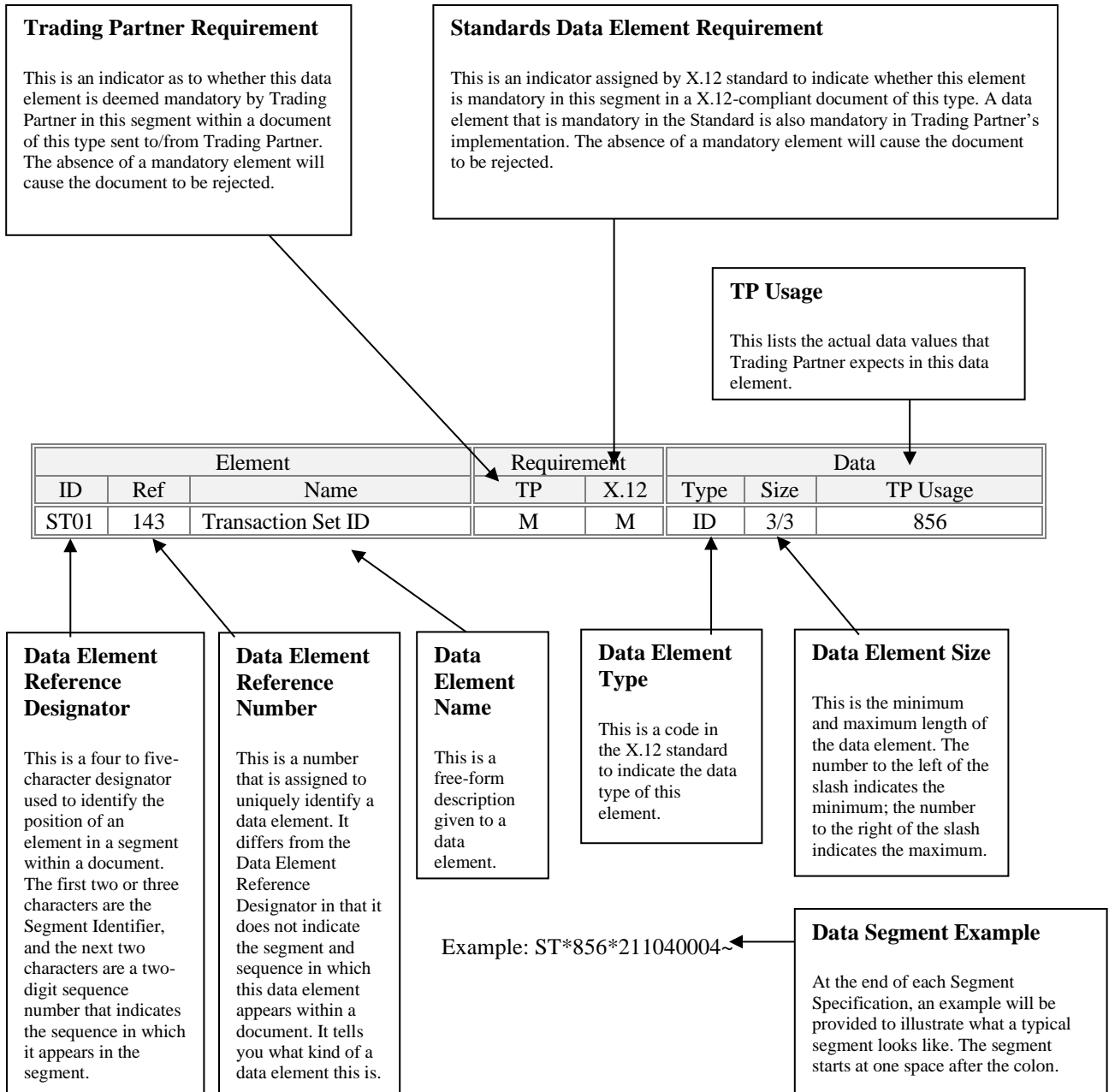
# Document Conventions

## Interpreting Segment Specifications

### Example: ST - Transaction Set Header

#### Segment Identifier and Name

The Segment Identifier (ST in this case) is a two- or three-character designator that uniquely identifies a segment in the X.12 standard. The Name is a free form descriptive label assigned to the segment.



# Key Terms

<b><i>Segment Identifier</i></b>	Each segment has a unique identifier, usually two or three characters long. This identifier serves as a label for the data within the segment.
<b><i>Data Element Reference Designator</i></b>	This is a structured four-character designator used to identify the position of an element in a segment within a document. The first two characters are the Segment Identifier, and the next two characters are a two-digit sequence that indicates the sequential order in which the data element appears in the segment identified by the Segment Identifier.
<b><i>Data Element Reference Number</i></b>	This is a number that is assigned to uniquely identify a data element. It differs from the Data Element Reference Designator in that it does not indicate the segment and sequence in which this data element appears within a document. It tells you what kind of a data element this is. You may find the definition of all data elements in the ASC X.12 Data Dictionary.
<b><i>Data Element Name</i></b>	This is a free-form description given to a data element. This name is assigned by the X.12 committee and corresponds to the name that is given in the ASC X.12 Data Dictionary.
<b><i>Trading Partner Requirement Indicator</i></b>	<p>This is an indicator assigned by Trading Partner to indicate to our Trading Partner whether a segment or a data element is mandatory in this document or segment within a document of this type sent to Trading Partner. Please note that:</p> <ul style="list-style-type: none"><li>● Segments and elements that are mandatory in the X.12 standards are also mandatory by default in Trading Partner's Implementation.</li><li>● The absence of a mandatory segment or element will cause the document to be rejected.</li></ul> <p>The valid values of this indicator are:</p> <ul style="list-style-type: none"><li>● <b>M</b> – This indicates that the segment or element is Mandatory</li><li>● <b>O</b> – This indicates that the segment or element is Optional</li></ul>
<b><i>X.12 Requirement Indicator</i></b>	<p>ASC X.12 standard requires certain segments in a transaction set and certain elements within a segment be always present in a transmitted document, and that certain segments and elements be present should other segments and elements are present in a document. This is an indicator assigned by ASC X.12 committee to indicate whether a segment or a data element is mandatory in this document or segment within a document of this type. Please note that:</p> <ul style="list-style-type: none"><li>● Segments and elements that are mandatory in the X.12 standards are also mandatory by default in Trading Partner's Implementation.</li><li>● The absence of a mandatory segment or element will cause the document to be rejected.</li></ul> <p>The valid values of this indicator are:</p> <ul style="list-style-type: none"><li>● <b>M</b> – This indicates that the segment or element is Mandatory</li><li>● <b>O</b> – This indicates that the segment or element is Optional</li><li>● <b>C</b> – This indicates that the segment or element is Conditionally Mandatory. If certain other segments or elements are used in the same document or segment, this segment must also be present. For more information on the conditions governing a particular segment or element, please refer to the ASC X.12 Data Dictionary.</li></ul>

**Data Element Type** A data element can be of one of six types in ASC X.12:

Type	Description
ID	An identifier as defined in ASC X.12 Data Dictionary
AN	Alphanumeric
DT	Date
Nn	Numeric with implied decimals (no decimal point appears)
R	Numeric with explicit decimals (decimal point appears)
TM	Time

**Data Element Size** All data elements are assigned a minimum and maximum length.

Example: 3/3

This indicates the minimum and maximum length of the data element. The number to the left of the slash indicates the minimum length; the number to the right of the slash indicates the maximum length.

In this example, it indicates that the data element has a minimum length of 3 and a maximum length of 3. That is, it is required to be of length 3.

**Trading Partner Usage** This is a list of values of what Trading Partner is expecting to receive or send in a particular data element. A brief description or definition is attached where appropriate.

**Data Segment Example** This is an example showing how a particular segment can be used in a transaction.

# Contact Information

## LBMX Technical Contact

Name	LBMX EDI Team
Telephone	(519) 850-5269
Fax	(519) 850-2028
Email	edisupport@lbm.com
Web Site	www.lbm.com



## Purpose of This Transaction

This 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.

# Important Notes

**Each ASN can only reference one purchase order. If multiple PO's are being shipped together, an ASN should be sent for each of the PO's.**

ASN's should be delivered before the truck leaves the vendor's distribution facility. Replacement ASN's are accepted and should also be sent before the truck arrives for delivery. Replacement ASN's must be sent complete with all relevant shipment details provided.

## Summary ASN

The supplier provides shipment information and total units shipped of each item. A GS1-128 pallet or carton label is *not required* for this type of ASN. The ASN will follow the *Shipment – Order – Item* structure and **0004** should be sent in BSN05.

## Detailed ASN

The supplier provides shipment information along with GS1-128 label information for either the pallet or individual cartons contained within the shipment. Depending on the type of shipment, GS1-128 bar code labels will be required for pallet or the cartons or possibly both.

-If the shipment is comprised of a single type of product on a pallet, only a GS1-128 pallet bar code is required.

-If the shipment contains "mixed pallets" where several products are placed on each pallet, then a GS1-128 pallet bar code is required for each pallet, along with a GS1-128 carton label for carton within the pallet.

-If the shipment contains loose cartons (ie. A non-palletized shipment), then only GS1-128 carton bar codes should be sent.

Standard and Version

### Preferred Standard and Version

Standard	Version
X.12	004010

Also Supports

Standard	Version

Notes

# Segment Summary

## Overview of Segments

Segment		Requirement		Data	
ID	Name	TP	X.12	Loop Level	Purpose
ISA	Interchange Control Header	M	M		Interchange start to identify sending/receiving parties, control numbers, standard, version and security information for groups of transactions.
GS	Functional Group Header	M	M		Indicates the beginning of a group of transactions and provides control information
ST	Transaction Set Header	M	M		Indicates the start of a transaction set and to assign a control number
BSN	Beginning Segment for Ship Notice	M	M		To transmit identifying numbers, dates, and other basic data relating to the transaction set
HL	Hierarchical Level	M	M		To identify dependencies among and the content of hierarchically related groups of data segments
TD1	Carrier Details (Quantity and Weight)	M	O		To specify the transportation details relative to commodity, weight, and quantity
TD5	Carrier Details	M	O		To specify the carrier and sequence of routing and provide transit time information
REF	Reference Identification	M	O		To specify identifying information
DTM	Date Time Reference	M	O		Specify pertinent dates and times
FOB	F.O.B. Related Instructions	M	O		To specify transportation instructions relating to shipment
N1	Name	M	O		Identify a party by type of organization name and code.
N3	Address Information	M	O		Identify the street address information
N4	Geographic Location	M	O		Identify the City, Province, Postal Code and Country
PRF	Purchase Order Reference	M	O		To provide reference to a specific purchase order
MAN	Marks and Number	C	O		To indicate identifying marks and numbers for shipping containers
LIN	Item Identification	M	M	1	To specify basic item identification data
SN1	Item Detail (Shipment)	M	O		To specify line-item detail relative to shipment
PO4	Item Physical Details	O	O		Identifies item physical data such as Pack, Size, Weight, Volume and dimension data
PID	Product Item Description	M	O		Includes the Product Description
REF	Reference Identification	C	O		To specify identifying information
CTT	Transaction Totals	M	M		Transmit a hash total for a specific element in the transaction set
SE	Transaction Set Trailer	M	M		Indicate the end of the transaction set and provide the count of the transmitted segments
GE	Functional Group Trailer	M	M		Indicates the ending of a group of transactions
IEA	Interchange Control Trailer	M	M		Indicates the end of the interchange

## Segment Delimiters

Type	Name	Character	Hex	Dec
Segment Delimiter	Tilde	~	7E	126
Element Separator	Asterisk	*	2A	42
Sub-element Separator	Caret	^	5E	94

# Segment Specifications

## ISA - Interchange Header

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
ISA01	I01	Authorization Information Qualifier	M	M	ID	2/2	“00” No Authorization Information Present.
ISA02	I02	Authorization Information	M	M	AN	10/10	Blank
ISA03	I03	Security Inform Qualifier	M	M	ID	2/2	“00” No Authorization Information Present.
ISA04	I04	Security Information	M	M	AN	10/10	Blank
ISA05	I05	Interchange ID Qualifier	M	M	ID	2/2	Sender Qualifier
ISA06	I06	Interchange Sender ID	M	M	AN	15/15	Sender ID
ISA07	I05	Interchange ID Qualifier	M	M	ID	2/2	Receiver Qualifier
ISA08	I07	Interchange Receiver ID	M	M	AN	15/15	Receiver ID
ISA09	I08	Interchange Date	M	M	DT	6/6	YYMMDD
ISA10	I09	Interchange Time	M	M	TM	4/4	HHMM
ISA11	I10	Interchange Control Standards ID	M	M	ID	1/1	“U” U.S. EDI Community of ASC X12, TDCC, and UCS
ISA12	I11	Interchange Control Version Number	M	M	ID	5/5	“00401”
ISA13	I12	Interchange Control Number	M	M	N0	9/9	Control number
ISA14	I13	Acknowledgment Requested	M	M	ID	1/1	“0” Acknowledgment not requested
ISA15	I14	Test Indicator	M	M	ID	1/1	“P” for Production Data, and “T” for Test
ISA16	I15	Sub-Element Separator	M	M	AN	1/1	^

Example:

```
ISA*00*      *00*      *ZZ*SENDER ID *ZZ*RECEIVERID
*190521*1556*U*00401*000001011*0*P*^~
```

## GS - Functional Group Header

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
GS01	479	Functional Identifier Code	M	M	ID	2/2	“SH”
GS02	142	Application Sender’s Code	M	M	AN	2/15	Sender ID
GS03	124	Application Receiver’s Code	M	M	AN	2/15	Receiver ID
GS04	373	Date	M	M	DT	8/8	CCYYMMDD
GS05	337	Time	M	M	TM	4/8	HHMM
GS06	28	Group control Number	M	M	N0	1/9	Control Number
GS07	455	Responsible Agency Code	M	M	ID	1/ 2	“X” Accredited Standard Committee X12
GS08	480	Version/Release/ Industry Id Code	M	M	AN	1/12	“004010”

Example:

GS\*SH\*SENDERID\*RECEIVERID\*20190521\*1556\*101\*X\*004010~

## ST – Transaction Set Header (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
ST01	143	Transaction Set Identifier Code	M	M	ID	3/3	856
ST02	329	Transaction Set Control Number	M	M	AN	4/9	A unique ID identifying a transaction set generated for a trading partner

Example:

ST\*856\*0001~



## BSN – Beginning Segment for Ship Notice (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
BSN01	353	Transaction Set Purpose Code	M	M	ID	2/2	“00” Original
BSN02	396	Shipment Identification	M	M	AN	2/30	Unique ASN Number
BSN03	373	Date	M	M	DT	8/8	YYYYMMDD
BSN04	337	Time	M	M	TM	4/8	HHMM
BSN05	1005	Hierarchical Structure Code	O	M	ID	4/4	

Example:

BSN\*00\*5006183\*20190514\*0912\*0001~

Notes:

BSN05: Acceptable Packaging Codes

Code	Description
0001	Shipment, Order, Tare, Pack, Item*
0004	Shipment, Order, Item**

\*BSN05=**0001** when sending a Detail ASN with GS1-128 bar code labeling and including Shipment, Order, Tare (and/or Pack), and Item ASN hierarchical levels.

\*\* BSN05=**0004** when sending a Summary ASN without GS1-128 bar code labeling and including only Shipment, Order, and Item ASN hierarchical levels.

## HL – Hierarchical Level – Shipment (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
HL01	628	Hierarchical ID Number	M	M	AN	1/12	
HL03	735	Hierarchical Level Code	M	M	ID	1/2	<b>S</b> - Shipment

Example:

HL\*1\*\*S~

## TD1 – Carrier Details – Quantity &amp; Weight (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
TD101	103	Packaging Code	O	O	AN	3/5	<i>See Note TD101</i>
TD102	80	Lading Quantity	C	C	N0	1/7	# number of shipment pieces as described in TD101
TD106	187	Weight Qualifier	O	O	ID	1/2	G – Gross Weight
TD107	81	Weight	C	C	R	1/8	
TD108	355	Unit Or Basis for Measurement Code	C	C	ID	2/2	LB – Pound KG - Kilogram

Example:

TD1\*PLT\*8\*\*\*\*G\*118.07\*KG~

Notes:

TD101: Acceptable Packaging Codes

Code	Description
CTN	Carton
PLT	Pallet
UNT	Unit

## TD5 – Carrier Details – Quantity &amp; Weight (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
TD502	66	Identification Code Qualifier	C	C	ID	1/2	“2”
TD503	67	Identification Code	C	C	AN	2/80	Standard Carrier Alpha Code (SCAC)
TD504	91	Transportation Method/Type Code	C	C	ID	1/2	<i>See note TD504</i>
TD505	387	Routing	C	C	AN	1/35	
TD506	368	Ship / Order Status Code	C	C	ID	2/2	

Example:

TD5\*\*2\*SDCR\*\*Sameday Ground\*CC~

Notes:

TD504 - Transportation Method/Type Code

Code	Description
A	Air
AE	Air Express
H	Customer Pick Up
L	Contract Carrier
LT	Less than Trailer Load (LTL)
M	Motor/Common Carrier
R	Rail
S	Ocean
SR	Supplier Truck
T	Best Way (Shipper's Option)
U	Private Parcel Service

## REF – Reference Identification (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
REF01	128	Reference Identification Code Qualifier	M	M	ID	2/3	<i>See Note REF01</i>
REF02	127	Reference Identification	M	M	AN	1/30	

Example:

REF\*CN\*5006183~  
 REF\*BM\*92158526~  
 REF\*OQ\*3834354~

Notes:

**Either Carrier Reference Number and/or Bill of Lading Number must be sent.**

Order Number (REF\*OQ) is mandatory when REF\*OQ was received on the Purchase Order; otherwise, this field is optional

REF01: A list of references supported by TP

Code	Description
BM	Bill of Lading Number
CN	Carrier Reference Number (Tracking Number)
OQ	Order Number

## DTM – Date Time Reference (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
DTM01	374	Date Time Qualifier	M	M	ID	3/3	<b>011</b> - Date Shipped
DTM02	373	Date	C	M	DT	8/8	CCYYMMDD

Example:

DTM\*011\*20190514~

## FOB – F.O.B. Related Instructions (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
01	146	Shipment Method of Payment	M	M	ID	2/2	

Example:

FOB\*PP ~

Notes:

FOB01 – Shipping Method of Payment

Code	Description
CC	Collect
PC	Prepaid but Charged to Customer
PP	Prepaid (by Seller)
PU	Pickup

## N1 – Name (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
01	98	Entity Identifier Code	M	M	ID	2/3	“SH” Supplier/Shipper “OB” Ordered By “SF” Ship From “ST” Ship To
02	93	Name	C	M	AN	1/60	Company Name
03	66	ID Code Qualifier	C	M	ID	1/2	“92” Assigned by Buyer/ Buyer's Agent
04	67	ID Code	C	M	AN	2/80	SF-not applicable OB-Ordered By Store # SH-not applicable ST-Ship To Store #

Example:

N1\*ST\*SHIP TO NAME\*92\*0001~

## N3 – Address Information (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
01	166	Address Information	M	M	AN	1/55	Street Address
02	166	Address Information	O	O	AN	1/55	Street Address

Example:

N3\*1440 VENDOR ADDRESS 1\*VENDOR ADDRESS 2~

## N4 – Geographic Location (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
01	19	City Name	O	M	AN	2/30	
02	156	State or Province Name	O	M	ID	2	
03	116	Postal Code	O	M	ID	3/15	
04	26	Country Code	O	O	ID	2/3	

Example:

N4\*CITY\*ON\*A1A 2B2\*CAN~



## HL – Hierarchical Level – Order (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
HL01	628	Hierarchical ID Number	M	M	AN	1/12	
HL02	734	Hierarchical Parent Code	O	O	AN	1/12	
HL03	735	Hierarchical Level Code	M	M	ID	1/2	<b>O</b> - Order

Example:

HL\*2\*1\*O~

## PRF – Purchase Order Reference (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
PRF01	324	Purchase Order Number	M	M	AN	1/22	
PRF04	373	Date	O	O	DT	8/8	CCYYMMDD

Example:

PRF\*32976115\*\*\*20190510~

## REF – Reference Identification (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
REF01	128	Reference Identification Code Qualifier	M	M	ID	2/3	<i>See Note REF01</i>
REF02	127	Reference Identification	M	M	AN	1/30	

Example:

REF\*IA\*92158526~

Notes:

REF01: A list of references supported by TP

Code	Description
IA	Supplier Number (mandatory)

Notes:

Trading Partner's Supplier Number for your company will be communicated to you by LBMX on behalf of Trading Partner. Supplier Number is a mandatory data element.

## HL – Hierarchical Level – Tare (Conditional)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
HL01	628	Hierarchical ID Number	M	M	AN	1/12	
HL02	734	Hierarchical Parent Code	O	O	AN	1/12	
HL03	735	Hierarchical Level Code	M	M	ID	1/2	“T”

Example:

HL\*3\*2\*T~

Notes:

If sending a detail ASN (ie. BSN05=0001), either the HL – TARE and/or HL – PACK is required

## MAN – Marks and Numbers – Pallet Identification (Conditional)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
MAN01	88	Marks and Numbers Qualifier	M	M	ID	1/2	“GM”
MAN02	87	Marks and Numbers	M	M	AN	1/48	GS1-128 Pallet Barcode
MAN04	88	Marks and Numbers Qualifier	C	C	ID	1/2	“CP” = Carrier-Assigned Package ID Number
MAN05	87	Marks and Numbers	O	O	AN	1/48	Small Carrier Tracking Number

Example:

MAN\*GM\*1122334455667788\*\*CP\*955649782245~

## HL – Hierarchical Level – Pack (Conditional)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
HL01	628	Hierarchical ID Number	M	M	AN	1/12	
HL02	734	Hierarchical Parent Code	O	O	AN	1/12	
HL03	735	Hierarchical Level Code	M	M	ID	1/2	“P”

Example:

HL\*4\*3\*P~

Notes:

If sending a detail ASN (ie. BSN05=0001), either the HL – TARE and/or HL – PACK is required

## MAN – Marks and Numbers – Carton Identification (Conditional)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
MAN01	88	Marks and Numbers Qualifier	M	M	ID	1/2	“GM”
MAN02	87	Marks and Numbers	M	M	AN	1/48	GS1-128 Carton Barcode
MAN04	87	Marks and Numbers	O	O	AN	1/48	“CP” = Carrier-Assigned Package ID Number
MAN05	88	Marks and Numbers Qualifier	C	C	ID	1/2	Small Carrier Tracking Number

Example:

MAN\*GM\*1122334455667788~

## HL – Hierarchical Level – Item (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
HL01	628	Hierarchical ID Number	M	M	AN	1/12	
HL02	734	Hierarchical Parent Code	O	O	AN	1/12	
HL03	735	Hierarchical Level Code	M	M	ID	1/2	“I”

Example:

HL\*5\*4\*I~



## LIN – Item Identification (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
LIN01	350	Assigned Identification	O	M	AN	1/20	Line number
LIN02	235	Product Service ID Qualifier	C	C	ID	2/2	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code <b>UK</b> – UPC Case Code
LIN03	234	Product Service ID	C	C	AN	1/48	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code (12 digit) <b>UK</b> – UPC Case Code (14 digit)
LIN04	235	Product Service ID Qualifier	C	C	ID	2/2	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code <b>UK</b> – UPC Case Code
LIN05	234	Product Service ID	C	C	AN	1/48	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code (12 digit) <b>UK</b> – UPC Case Code (14 digit)
LIN06	235	Product Service ID Qualifier	C	C	ID	2/2	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code <b>UK</b> – UPC Case Code
LIN07	234	Product Service ID	C	C	AN	1/48	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code (12 digit) <b>UK</b> – UPC Case Code (14 digit)
LIN08	235	Product Service ID Qualifier	C	C	ID	2/2	<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number

								<b>UP</b> – UPC Code <b>UK</b> – UPC Case Code
LIN09	234	Product Service ID	C	C	AN	1/48		<b>VP</b> – Vendor’s Part Number <b>BP</b> – Buyer’s Part Number <b>UP</b> – UPC Code (12 digit) <b>UK</b> – UPC Case Code (14 digit)

Example:

LIN\*1\*VP\*FCM 2246 0075\*UP\*5702322041567\*BP\*101837\*UK\*91234567891245~  
 LIN\*2\*BP\*FXM-998\*VP\*570232~

Notes:

**Vendor Part Number (VP) is required at minimum.**

LIN03/ LIN05/ LIN07/ LIN09 are not fixed position values. The preceding qualifier in LIN02/ LIN04/ LIN06/ LIN08 will denote the type of product information being sent in the related position.

## SN1 – Item Detail – Shipment (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
SN101	350	Assigned Identification	O	M	AN	1/6	Line Number
SN102	382	Number of Units Shipped	M	M	R	1/10	
SN103	355	Unit or Basis for Measurement Code	M	M	ID	1/2	

Example:

SN1\*1\*3\*EA~

Notes:

The SN101 value should mirror the line number received on the Purchase Order.

## PO4 – Item Physical Details (Optional)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
PO401	356	Pack	O	O	N0	1/6	The number of inner containers, or number of eaches if there are no inner containers, per outer container
PO402	357	Size	O	O	R	1/8	Size of supplier units in pack
PO403	355	Unit or Basis for Measurement	C	C	ID	2/2	“EA”

Example:

PO4\*12\*1\*EA~

PID – Product Item Description (Mandatory) - *max 10 iterations*

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
PID01	349	Item Description Type	M	M	ID	1/1	“F” Free Form
PID05	352	Description	C	M	AN	1/80	Free form description of the Item

Example:

PID\*F\*\*\*\*PRODUCT DESCRIPTION~

REF – Reference Identification (Conditional) - *max 50 iterations*

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
REF01	128	Reference Identification Code Qualifier	M	M	ID	2/3	“SE”
REF02	127	Reference Identification	M	M	AN	1/30	<i>Serial Number</i>

Example:

REF\*SE\*5006183~

Notes:

One REF\*SE segment should be sent per Serial Number.

REF01: A list of references supported

Code	Description
SE	Serial Number

## CTT – Transaction Totals (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
CTT01	354	Number of Line Items	M	M	N0	1/6	Total number of line items in the transaction set
CTT02	347	Hash Total	O	O	R	1/10	Sum of SN102

Example:

CTT\*2\*15~

## SE– Transaction Set Trailer

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
SE01	96	Number of Included Segments	M	M	N0	1/10	
SE02	329	Transaction Set Control Number	M	M	AN	4/9	

Example:

SE\*100\*0001~



## GE – Functional Group Trailer (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
GE01	97	Number of Transaction Sets Included	M	M	N0	1/6	
GE02	28	Group Control Number	M	M	N0	1/9	

Example:

GE\*1\*101~

## IEA – Interchange Control Trailer (Mandatory)

Element			Requirement		Data		
ID	Ref	Name	X.12	TP	Type	Size	TP Usage
IEA01	I16	Number of Included Functional Groups	M	M	N0	1/5	
IEA02	I12	Interchange Control Number	M	M	N0	9/9	

Example:

IEA\*2\*000001011~

# Sample Detail ASN - [Shipment, Order, Tare, Pack, Item]

ISA\*00\* \*00\* \*ZZ\*sender\_id \*ZZ\*receiver\_id  
\*190404\*0908\*U\*00401\*000000011\*0\*T\  
GS\*SH\*sender\_id\*receiver\_id\*20190404\*0908\*11\*X\*004010  
ST\*856\*0001  
BSN\*00\*ASNTTEST\*20190403\*190443\*0001  
HL\*1\*\*S  
TD1\*PLT\*1\*\*\*\*G\*100\*LB  
TD5\*\*2\*SCAC\*T\*FEDEX\*CC  
REF\*BM\*9126345  
REF\*CN\*213456668841452  
DTM\*011\*20190403  
FOB\*PC  
N1\*ST\*Customer Name\*92\*Ship\_To\_Number  
N3\*123 Test Ave  
N4\* No Where\*MI\*55426\*USA  
N1\*SF\*Ship From Name  
N3\*123 Main St  
N4\*Anytown\*MI\*12345\*USA  
N1\*SH\*Shipper Name  
N3\*123 Main St  
N4\*Anywhere\*MI\*12345\*USA  
N1\*OB\*Customer Name\*92\*Ordered\_By\_Store\_Number  
N3\*123 Test Ave  
N4\*No Where\*MI\*55426\*USA  
HL\*2\*1\*O  
PRF\*332255667\*\*\*20190324  
REF\*CN\*CarrierNumber  
HL\*3\*2\*T  
MAN\*GM\*1122334455667788\*\*CP\*955649782245  
HL\*4\*3\*P  
MAN\*GM\*1122334455667788  
HL\*5\*4\*I  
LIN\*1\*VP\*FCM 2246 0075\*UP\*5702322041567\*BP\*101837\*UK\*91234567891245  
SN1\*1\*2\*EA  
PO4\*12\*1\*EA  
PID\*F\*\*\*HAMMER  
HL\*6\*3\*P  
MAN\*GM\*3322334455669999  
HL\*7\*6\*I  
LIN\*1\*VP\*ABC 77865\*UP\*5702322049191\*BP\*101999\*UK\*91234567891299  
SN1\*1\*6\*EA  
PO4\*3\*1\*EA  
PID\*F\*\*\*DRYWALL SAW  
REF\*SE\*5006183~  
CTT\*2\*8  
SE\*43\*0001  
GE\*1\*11  
IEA\*1\*000000011

# Sample Detail ASN - [Shipment, Order, Tare/Pack, Item]

ISA\*00\* \*00\* \*ZZ\*sender\_id \*ZZ\*receiver\_id  
 \*140404\*0908\*U\*00401\*000000011\*0\*T\  
 GS\*SH\*sender\_id\*receiver\_id\*20140404\*0908\*11\*X\*004010  
 ST\*856\*0001  
 BSN\*00\*ASNTTEST\*20140403\*190443\*0001  
 HL\*1\*\*S  
 TD1\*PLT\*1\*\*\*\*G\*100\*LB  
 TD5\*\*2\*SCAC\*T\*FEDEX\*CC  
 REF\*BM\*9126345  
 REF\*CN\*213456668841452  
 DTM\*011\*20140403  
 FOB\*PC  
 N1\*ST\*Customer Name\*92\*Ship\_To\_Number  
 N3\*123 Test Ave  
 N4\* No Where\*MI\*55426\*USA  
 N1\*SF\*Ship From Name  
 N3\*123 Main St  
 N4\*Anytown\*MI\*12345\*USA  
 N1\*SH\*Shipper Name  
 N3\*123 Main St  
 N4\*Anywhere\*MI\*12345\*USA  
 N1\*OB\*Customer Name\*92\*Ordered\_By\_Store\_Number  
 N3\*123 Test Ave  
 N4\*No Where\*MI\*55426\*USA  
 HL\*2\*1\*O  
 PRF\*332255667\*\*\*20140324  
 REF\*CN\*CarrierNumber  
 HL\*3\*2\*T *← vendor may send PACK instead*  
 MAN\*GM\*1122334455667788\*\*CP\*955649782245  
 HL\*4\*3\*I  
 LIN\*1\*VP\*FCM 2246 0075\*UP\*5702322041567\*BP\*101837\*UK\*91234567891245  
 SN1\*1\*2\*EA  
 PO4\*12\*1\*EA  
 PID\*F\*\*\*\*HAMMER  
 HL\*5\*3\*I  
 LIN\*1\*VP\*ABC 77865\*UP\*5702322049191\*BP\*101999\*UK\*91234567891299  
 SN1\*1\*6\*EA  
 PO4\*3\*1\*EA  
 PID\*F\*\*\*\*DRYWALL SAW  
 REF\*SE\*5006183~  
 CTT\*2\*8  
 SE\*39\*0001  
 GE\*1\*11  
 IEA\*1\*000000011

# Sample Summary ASN [Shipment, Order, Item]

ISA\*00\* \*00\* \*ZZ\*sender\_id \*ZZ\*receiver\_id  
\*140404\*0908\*U\*00401\*000000011\*0\*T\*\  
GS\*SH\*sender\_id\*receiver\_id\*20140404\*0908\*11\*X\*004010  
ST\*856\*0001  
BSN\*00\*ASNTTEST\*20140403\*190443\*0004  
HL\*1\*\*S  
TD1\*PLT\*1\*\*\*\*G\*100\*LB  
TD5\*\*2\*SCAC\*T\*FEDEX\*CC  
REF\*BM\*9126345  
REF\*CN\*213456668841452  
DTM\*011\*20140403  
FOB\*PC  
N1\*ST\*Customer Name\*92\*Ship\_To\_Number  
N3\*123 Test Ave  
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N1\*SF\*Ship From Name  
N3\*123 Main St  
N4\*Anytown\*MI\*12345\*USA  
N1\*SH\*Shipper Name  
N3\*123 Main St  
N4\*Anywhere\*MI\*12345\*USA  
N1\*OB\*Customer Name\*92\*Ordered\_By\_Store\_Number  
N3\*123 Test Ave  
N4\*No Where\*MI\*55426\*USA  
HL\*2\*1\*O  
PRF\*332255667\*\*\*20140324  
REF\*IA\*Vendor\_Number  
HL\*3\*2\*I  
LIN\*1\*VP\*FCM 2246 0075\*UP\*5702322041567\*BP\*101837\*UK\*91234567891245  
SN1\*1\*2\*EA  
PO4\*12\*1\*EA  
PID\*F\*\*\*\*HAMMER  
HL\*4\*2\*I  
LIN\*1\*VP\*ABC 77865\*UP\*5702322049191\*BP\*101999\*UK\*91234567891299  
SN1\*1\*6\*EA  
PO4\*3\*1\*EA  
PID\*F\*\*\*\*DRYWALL SAW  
REF\*SE\*5006183~  
CTT\*2\*8  
SE\*37\*0001  
GE\*1\*11  
IEA\*1\*000000011