

# 856 Ship Notice / Manifest ANSI X.12 Version 5010

\*\*\* HEADER AREA \*\*\*

SEG ID	SEGMENT NAME	REQ DES	MAX USE	LOOP REPEAT
ISA	Interchange Control Header	M	1	
GS	Functional Group Header	M	1	
ST	Transaction Set Header	M	1	
BNS	Beginining Segment for Ship Notice	M	1	
DTM	Date/Time Reference	O	10	

\*\*\* DETAIL AREA \*\*\*

<i>Loop Id - HL (Shipping)</i>				<i>200000</i>
HL	Hierarchical Level	M	1	
TD1	Carrier Details (Quantity and Weight)	O	20	
TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
REF	Reference Identification	O	>1	
<i>Loop Id - N1</i>				<i>200</i>
N1	Name	O	1	
N3	Address Information	O	2	
N4	Geographic Location	O	1	
<i>Loop Id - HL (Purchase Order)</i>				<i>200000</i>
HL	Hierarchical Level	M	1	
PRF	Purchase Order Reference	O	1	
REF	Reference Identification	O	>1	
<i>Loop Id - HL (Tare)</i>				<i>200000</i>
HL	Hierarchical Level	M	1	
MAN	Marks and Numbers	O	>1	
<i>Loop Id - HL (Packing)</i>				<i>200000</i>
HL	Hierarchical Level	M	1	
MAN	Marks and Numbers	O	>1	
<i>Loop Id - HL (Item)</i>				<i>200000</i>
HL	Hierarchical Level	M	1	
LIN	Item Identification	O	1	
SN1	Item Detail (Shipment)	O	1	
PO4	Item Physical Detail	O	1	

McLane Electronic Data Interchange

PID	Product / Item Description	O	200
-----	----------------------------	---	-----

\*\*\* SUMMARY AREA \*\*\*

CTT	Transaction	O	1
SE	Transaction Set Trailer	M	1
GE	Functional Group Trailer	M	1
IEA	Interchange Control Trailer	M	1

NOTE: The Mandatory and Optional indicators are in accordance with the segment's requirement within the ANSI standards. All segments shown are required by McLane.

McLane Electronic Data Interchange

ISA Interchange Control Header

ISA\*00\* \*00\* \*01\*SENDERS ID\*01\*RECEIVERS ID\*YYMMDD\*HHMM\*^\*00501\*123456789\* 0\*P\*>

Element Element #	Description	Qualifiers/Definitions	Length Min/Max
ISA01 I01	Authorization Information Qualifier	00 No Authorization Sent	2/2 ID
ISA02 I02	Authorization Information	Leave Blank	10/10 AN
ISA03 I03	Security Information Qualifier	00 No Security Information Present	2/2 ID
ISA04 I04	Security Information	Leave Blank	10/10 AN
ISA05 I05	Interchange ID Qualifier	01 DUNS Number 14 DUNS Number + 4 char suffix ZZ Mutually Defined	2/2 ID
ISA06 I06	Interchange Sender ID	Sender's Identification Number	15/15 AN
ISA07 I05	Interchange ID Qualifier	01 DUNS Number 16 DUNS + 4 char suffix	2/2 ID
ISA08 I07	Interchange Receiver ID	Receiver's Identification Number	15/15 AN
ISA09 I08	Interchange Date	YYMMDD	6/6 DT
ISA10 I09	Interchange Time	HHMM	4/4 TM
ISA11 I10	Repetition Separator	^ 5E	1/1 ID
ISA12 I11	Interchange Control Version Number	00501 Version 4, Release 1	5/5 ID
ISA13 I12	Interchange Control Number	Control Number assigned by the sender	9/9 NO
ISA14 I13	Acknowledgment Requested	0 Acknowledgment Requested	1/1 ID
ISA15 I14	Interchange Usage Indicator	P Production T Test	1/1 ID
ISA16 I15	Component Element Separator	> ASCII - 3E	1/1

Note: Data Element ISA14 does not refer to the functional acknowledgment (transaction set 997).  
McLane requires the use of the Functional Acknowledgment (997) in all cases.

The following data element attributes are used in this document.

Attribute Type	Symbol	Attribute Type	Symbol
Numeric	Nn (n indicates decimal positions)	Date	DT (CCYYMMDD)
Decimal Number	R	ISA Date	DT (YYMMDD)
		Time	TM (HHMMSS.d)

McLane Electronic Data Interchange

Identifier	ID	Binary	B
String	AN	Fixed-Length String	FS

GS Function Group Header

GS\*SH\*SENDERS ID\*RECEIVERS ID\*CCYYMMDD\*HHMM\*123456789\*X\*005010

Element Element #	Description	Qualifiers/Definition	Length Min/Max
GS01 479	Functional Identifier Code	SH Ship Notice/Manifest (856)	2/2 ID
GS02 142	Application Sender's Code	Sender's Code	2/15 AN
GS03 124	Application Receiver's Code	Receiver's Code	2/15 AN
GS04 373	Group Date	CCYYMMDD	8/8 DT
GS05 337	Group Time	HHMM	4/8 TM
GS06 28	Group Control Number	Control Number assigned by the Sender	1/9 NO
GS07 455	Responsible Agency Code	X X12	1/2 ID
GS08 480	Version/Release/Industry Identifier Code	005010	1/12 AN

ST Transaction Set Header

ST\*856\*000000123

Element Element #	Description	Qualifiers/Definition	Length Min/Max
ST01 143	Transaction Set Identifier Code	856 Ship Notice/Manifest	3/3 ID
ST02 329	Transaction Set Control Number	Control Number assigned by originator	4/9 AN

BSN Beginning Segment for Ship Notice

BSN\*00\*123ABC\*CCYYMMDD\*1232

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
BSN01 353	Transaction Set Purpose Code	00 Original	2/2 ID
BSN02 396	Shipment Identification	A unique control number assigned by the original shipper to identify a specific shipment	2/30 AN
BSN03 373	Date	Date (CCYYMMDD)	8/8 DT
BSN04 337	Time	Time expressed in 24-hour clock time as: HHMMSSDD	4/8 TM

McLane Electronic Data Interchange

HL Hierarchical Level  
HL\*1\*00000001\*S\*1

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
HL01 628	Hierarical ID Number	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	1/12 AN
HL02 734	Hierarchical Parent ID Number	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	1/12 AN
HL03 735	Hierarchical Level Code	S Shipment	1/2 ID
HL04 736	Hierarchical Child Code	Code indicating if there are hierarchical child data segments subordinate to the level being described	1/1 ID

TD1 Carrier Details  
TD1\*PLT94\*1\*\*\*\*G\*256.2\*LB

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
TD101 103	Packaging Code	Code identifying the type of packaging: Part 1: Packing form, Part 2: Packaging Material (Not a complete list)	3/5 AN
TD102 80	Lading Quantity	Number of units (pieces) of lading commodity	1/7 NO
TD106 187	Weight Qualifier	Code defining the type of weight	1/2 ID
TD107 81	Weight	Numeric value of weight	1/10 R
TD108 355	Unit Basis for Measurement Code	LB Pound	2/2 ID

TD5 Carrier Details (Routing Sequence/Transit Time)  
TD5\*\*\*\*M  
TD5\*\*\*\*K\*McLane Truck\*\*\*\*HO\*4

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
TD504 91	Transportation Method/Type Code	K Back Haul M Motor (Common Carrier) (Not a complete list)	1/2 ID
TD505 387	Routing	Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	1/35 AN

McLane Electronic Data Interchange

TD510 732	Transit Time Direction Qualifier	CD Calendar Days WD Working Days WW 5 Day Work Week (Not a complete list)	2/2 ID
TD511 733	Transit Time	The numeric amount of transit time	1/4 R

REF Reference Numbers

REF\*BM\*123456789

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
REF01 128	Reference Number Qualifier	BM Bill of Lading Number	2/3 ID
REF02 127	Reference Number	Bill of Lading Number	1/30 AN

DTM Date/Time Reference

DTM\*002\*CCYYMMDD

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
DTM01 374	Date/Time Qualifier	11 Shipped	3/3 ID
DTM02 373	Date	CCYYMMDD	8/8 DT

N1 Name

N1\*ST\*McLane Southwest\*UL\*0083967001006

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
N101 98	Entity Identifier Code	ST Ship To	2/3 ID
N102 93	Name	Free form text name	1/60 AN
N103 66	Identification Code Qualifier	UL Global Location Number (GLN)	1/2 ID
N104 67	Identification Code	Identification Code	2/80 AN

N3 Address Information

N3\*2828 Industrial Blvd (Ship To Address)

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
N301 166	Address Information	Free form text for line 1 of address	1/55 AN

McLane Electronic Data Interchange

N4 Geographic Location  
 N4\*Temple\*TX\*76504 (Ship To Address)

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
N401 19	City Name	Free form text for city name	2/30 AN
N402 156	State or Province Code	State/Province Abbreviation	2/2 ID
N403 116	Postal Code	Zip Code	3/15 ID

HL Hierarchical Level  
 HL\*2\*000000001\*O\*1

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
HL01 628	Hierarchical ID Number	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	1/12 AN
HL02 734	Hierarchical Parent ID Number	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	1/12 AN
HL03 735	Hierarchical Level Code	O Order	1/2 ID
HL04 736	Hierarchical Child Code	Code indicating if there are hierarchical child data segments subordinate to the level being described	1/1 ID

PRF Purchase Order Reference  
 PRF\*A12345-01

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
PRF01 324	Purchase Order Number	Identifying number for Purchase Order assigned by the Orderer/purchaser	1/22 AN

REF Reference Numbers  
 REF\*IV\*123456789

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
REF01 128	Reference Number Qualifier	IV Seller's Invoice Number	2/3 ID
REF02 127	Reference Number	Invoice Number	1/50 AN

McLane Electronic Data Interchange

HL Hierarchical Level  
HL\*3\*00000002\*T\*1

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
HL01 628	Hierarical ID Number	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	1/12 AN
HL02 734	Hierarchical Parent ID Number	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	1/12 AN
HL03 735	Hierarchical Level Code	T Shipping Tare	1/2 ID
HL04 736	Hierarchical Child Code	Code indicating if there are hierarchical child data segments subordinate to the level being described	1/1 ID

MAN Marks and Numbers

MAN\*GM\*00012345678901\*00023456789012\*UC\*01234567890123\*02345678901234

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
MAN01 88	Marks and Numbers Qualifier	GM UCC/EAN-128 Serial Shipping Container Code Format	1/2 ID
MAN02 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN
MAN03 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN
MAN04 88	Marks and Numbers Qualifier	UC U.P.C Shipping Container Code	1/2 ID
MAN05 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN
MAN06 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN

HL Hierarchical Level  
HL\*4\*00000003\*P\*1

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
HL01 628	Hierarical ID Number	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	1/12 AN
HL02 734	Hierarchical Parent ID Number	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	1/12 AN
HL03 735	Hierarchical Level Code	P Pack	1/2 ID
HL04 736	Hierarchical Child Code	Code indicating if there are hierarchical child data segments subordinate to the level being described	1/1 ID



McLane Electronic Data Interchange

MAN Marks and Numbers

MAN\*GM\*00012345678901\*00023456789012\*UC\*01234567890123\*02345678901234

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
MAN01 88	Marks and Numbers Qualifier	GM UCC/EAN-128 Serial Shipping Container Code Format	1/2 ID
MAN02 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN
MAN03 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN
MAN04 88	Marks and Numbers Qualifier	UC U.P.C Shipping Container Code	1/2 ID
MAN05 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN
MAN06 87	Marks and Numbers	Marks and numbers used to identify a shipment of parts of a shipment	1/48 AN

HL Hierarchical Level

HL\*5\*000000004\*I

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
HL01 628	Hierarical ID Number	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	1/12 AN
HL02 734	Hierarchical Parent ID Number	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	1/12 AN
HL03 735	Hierarchical Level Code	I Item	1/2 ID
HL04 736	Hierarchical Child Code	Code indicating if there are hierarchical child data segments subordinate to the level being described	1/1 ID

LIN Item Identification

LIN\*\*CB\*000000123\*UK\*00123456768912

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
LIN02 235	Product / Service ID Qualifier	CB McLane Item Number	2/2 ID
LIN03 234	Product / Service ID	Identifying number for a product or service	1/48 ID
LIN04 235	Product / Service ID Qualifier	UK GTIN 14-digit Data Structure	2/2 ID
LIN05 234	Product / Service ID	Identifying number for a product or service	1/48 ID

McLane Electronic Data Interchange

SN1 Item Detail (Shipment)

SN1\*\*24\*CA

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
SN02 382	Number of Units Shipped	Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	1/10 R
SN03 355	Unit of Basis for Measurement Code	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	2/2 ID

PO4 Item Physical Details

PO4\*144\*6\*OZ\*\*\*\*\*25

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
PO401 356	Pack	Number of inner pack units per outer pack unit	1/6 NO
PO402 357	Size	Size of supplier units in pack	1/8 R
PO403 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	2/2 ID
PO414 810	Inner pack	Number of units in each selling pack	1/6 NO

PID Product Item Description

PID\*F\*\*\*\*Blue widgets

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
PID01 349	Item description type	F Free-form	1/1 ID
PID05 352	Description	A free-form description to clarify the related data elements and their content	1/80 AN

CTT Transaction Totals

CTT\*1\*125\*131\*LB\*250\*CF

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
CTT01 354	Number of Line Items	Total number of line items in the transaction set	1/6 NO

SE Transaction Set Trailer

McLane Electronic Data Interchange

SE\*12\*123456789

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
SE01 96	Number of included segments	Total number of segments including ST and SE segments	1/10 NO
SE02 329	Transaction Set Control Number	Same control number used in the ST segment	4/9 AN

GE Functional Group Trailer

GE\*1\*123456789

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
GE01 97	Number of Transaction Sets Included	Total number of transaction sets included in the functional group	1/6 NO
GE02 28	Group Control Number	Same control number used in the GS segment	1/9 NO

IEA Interchange Control Trailer

IEA\*1\*123456789

Element Element #	Description	Qualifiers/Definition	Min/Max Attributes
IEA01 I16	Number of included functional groups	A count of functional groups included in a transmission	1/5 NO
IEA02 I12	Interchange Control Number	Same control number used in the ISA segment	9/9 NO