

**ACE HARDWARE EDI856 ASN MAPPING FINAL**  
**(Includes GS1, Lot #s and Expiration Date Additions)**

Revised: 2/25/23

**856 ADVANCE SHIP NOTICE ASN ANSI X12 4010**

- IMPORTANT NOTES:**
- PLEASE REFERENCE ONLY ONE PO PER EDI856 TRANSACTION SET (ST-SE ENVELOPE).
  - ASN/EDI856s, INVOICES AND CREDITS/EDI810s, AND ACKNOWLEDGMENTS/EDI997s MUST BE SENT IN SEPARATE ENVELOPES.
  - THE 856 SHOULD BE TRANSMITTED THE SAME DAY AS THE ORDER IS SHIPPED.
  - ALL SHIP QUANTITIES ON THE 856 MUST BE IN THE SAME "UNIT OF MEASURE" AS THEY ARE ON THE PURCHASE ORDER.
  - MAKE ANY NECESSARY CHANGES PRIOR TO YOUR TRANSMISSION TO AVOID THE NEED TO SEND A SECOND CORRECTED ASN.
  - MAKE SURE YOU ARE SENDING ALL MANDATORY INFORMATION IN THE CORRECT ELEMENTS.
  - EDI856s ARE REQUIRED FOR ALL RSC PO SHIPMENTS.
  - GS1-128 PALLET OR CARTON IDs (SSCC CODES) ARE REQUIRED FOR ALL RSC ASNs. (HOWEVER, THIS IS NOT NEEDED FOR DROP SHIP ORDERS SHIPPED DIRECTLY TO ACE RETAILERS.)
  - LOT NUMBER AND DTM EXPIRATION DATES MUST BE TRANSMITTED IN THE LIN SEGMENT WHEN THESE APPLY TO THE PRODUCT BEING SHIPPED (I.E. PERISHABLE ITEMS).

ISA SEGMENT		INTERCHANGE CONTROL HEADER (X12 MANDATORY ENVELOPE)	OCCURS 1 TIME ACE MANDATORY ENVELOPE				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
ISA01	I01	AUTHORIZATION INFO QUALIFIER	M	M	ID	02/02	"00".
ISA02	I02	AUTHORIZATION INFORMATION	M	M	AN	10/10	FOLLOW STANDARD.
ISA03	I03	SECURITY INFO QUALIFIER	M	M	ID	02/02	"00".
ISA04	I04	SECURITY INFORMATION	M	M	AN	10/10	FOLLOW STANDARD.
ISA05	I05	INTERCHANGE SENDER ID QUALIFIER	M	M	ID	02/02	YOUR EDI ID QUALIFIER.
ISA06	I06	INTERCHANGE SENDER ID	M	M	ID	15/15	YOUR EDI ID (IE. DUNS #).
ISA07	I05	INTERCHANGE RECEIVER ID QUALIFIER	M	M	ID	02/02	IF SENDING TO ACE: "ZZ" = ACE TEST QUALIFIER. "01" = ACE PRODUCTION QUALIFIER.
ISA08	I07	INTERCHANGE RECEIVER ID	M	M	ID	15/15	IF SENDING TO ACE: "7089906600" = ACE TEST ID. "006928311" = ACE PRODUCTION ID.
ISA09	I08	TRANSMISSION DATE	M	M	DT	06/06	YYMMDD.
ISA10	I09	TRANSMISSION TIME	M	M	TM	04/04	HHMM.
ISA11	I10	INTERCHANGE CONTROL ID	M	M	ID	01/01	"U".
ISA12	I11	INTERCHANGE VERSION NUMBER	M	M	ID	05/05	"00400".
ISA13	I12	INTERCHANGE CONTROL NUMBER	M	M	NO	09/09	9 DIGIT CONTROL NUMBER.
ISA14	I13	ACKNOWLEDGEMENT REQUEST FLAG	M	M	ID	01/01	"0"
ISA15	I14	TEST INDICATOR	M	M	ID	01/01	"T" = TEST. "P" = PRODUCTION.
ISA16	I15	SUBELEMENT SEPARATOR	M	M	AN	01/01	FOLLOW STANDARD.

GS SEGMENT		FUNCTIONAL GROUP HEADER (X12 MANDATORY ENVELOPE)	OCCURS 1 TIME ACE MANDATORY ENVELOPE				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
GS01	479	FUNCTIONAL ID	M	M	ID	02/02	USE "SH" FOR ADVANCED SHIP NOTICE.
GS02	142	GROUP/APPLICATION SENDER ID	M	M	ID	02/15	YOUR GROUP/EDI ID.
GS03	124	GROUP/APPLICATION RECEIVER ID	M	M	ID	02/15	IF SENDING TO ACE: "7089906600" = ACE TEST ID. "006928311" = ACE PRODUCTION ID.
GS04	29	APPLICATION GROUP DATE	M	M	DT	08/08	CCYYMMDD.
GS05	30	APPLICATION GROUP TIME	M	M	TM	04/08	HHMM OR HHMMSS OR HHMMSSDD.
GS06	28	APPLICATION GROUP CONTROL NUMBER	M	M	NO	01/09	FOLLOW STANDARD.
GS07	455	RESPONSIBLE AGENCY CODE	M	M	ID	01/02	USE "X" FOR ANSI X12.
GS08	480	VERSION/RELEASE INDUSTRY CODE	M	M	ID	01/12	"004010".

ST SEGMENT		TRANSACTION SET HEADER (X12 MANDATORY ENVELOPE)	OCCURS 1 TIME ACE MANDATORY ENVELOPE				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
ST01	143	TRANSACTION SET ID	M	M	ID	03/03	"856" FOR X12 ADVANCED SHIP NOTICE.
ST02	329	TRANSACTION SET CONTROL NO.	M	M	AN	04/09	FOLLOW STANDARD.

BSN SEGMENT		BEGINNING SEGMENT FOR SHIP NOTICE	OCCURS 1 TIME ACE MANDATORY SEGMENT				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
BSN01	353	TRANSACTION SET PURPOSE CODE	M	M	ID	02/02	"00" = ORIGINAL.
BSN02	396	SHIPMENT IDENTIFICATION	M	M	AN	02/30	SHIPMENT ID ASSIGNED BY VENDOR.
BSN03	373	DATE	M	M	DT	08/08	DATE OF 856 CREATION.
BSN04	337	TIME	M	M	TM	04/08	TIME OF 856 CREATION.

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

HL SEGMENT		HIERARCHICAL LEVEL <i>SHIPMENT LEVEL</i> (HL LOOP FOR SHIPMENT LEVEL)	HL LOOP (ONLY LOOP TO REPEAT IN 856) ACE MANDATORY SEGMENT				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	USE "S" FOR SHIPMENT LEVEL.

TD1 SEGMENT		CARRIER DETAILS QUANTITY AND WEIGHT	OCCURS 1 TIME ACE MANDATORY SEGMENT				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
TD107	81	WEIGHT	X	M	R	01/10	WEIGHT OF SHIPMENT.
TD108	355	UNIT OF MEASURE	X	M	ID	02/02	USE "LB" FOR POUNDS.

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

TD5 SEGMENT		CARRIER DETAILS ROUTING SEQUENCE/TRANSIT TIME	OCCURS 1 TIME ACE MANDATORY SEGMENT				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
TD502	66	ID CODE QUALIFIER	X	M	ID	01/02	"2" = SCAC CODE QUALIFIER.
TD503	67	ID CODE	X	M	AN	02/80	CARRIER SCAC CODE (NOTE: ACE FLEET SCAC = "ACHW" FOR ALL RSCs.)
TD505	387	ROUTING	X	M	AN	01/35	CARRIER NAME.

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

**REF SEGMENT**

REFERENCE NUMBERS

THE REF SEGMENT IS MANDATORY AND CAN BE POPULATED UP TO 3 TIMES TO INCLUDE THE PRO #; BILL OF LADING #; AND ACE TMS LOAD ID. ACE PREFERS ALL 3 OF THESE TO BE TRANSMITTED (WHEN APPROPRIATE). FOR COLLECT VENDORS, IT IS MANDATORY TO TRANSMIT THE ACE TMS LOAD ID.

## ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
REF01	128	REFERENCE # QUALIFIER	M	M	ID	02/03	"CN" = CODE FOR PRO #
REF02	127	REFERENCE NUMBER	X	M	AN	01/30	FOR RSC SHIPMENTS ONLY: PROVIDE VALID PRO NUMBER FOR DROPSHIP ONLY: PROVIDE TRACKING NUMBER FOR DROPSHIP

## 2ND OCCURRENCE IF POSSIBLE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
REF01	128	REFERENCE # QUALIFIER	M	M	ID	02/03	"BM" = BILL OF LADING #
REF02	127	REFERENCE NUMBER	X	M	AN	01/30	BOL NUMBER

## 3RD OCCURRENCE - REQUIRED FOR COLLECT VENDOR SHIPMENTS

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
REF01	128	REFERENCE # QUALIFIER	M	M	ID	02/03	"LO" = ACE'S TMS LOAD ID/PLANNING #
REF02	127	REFERENCE NUMBER * SEE NOTE BELOW	X	M	AN	01/30	ACE'S TMS LOAD ID NUMBER

NOTES: - ACE'S TMS LOAD ID CAN BE OBTAINED IN THE EMAIL THAT HAS A SUBJECT LINE OF "TENDER TMS ID".  
YOU WILL RECEIVE A CARRIER ACCEPTANCE EMAIL ONCE A CARRIER HAS ACCEPTED THE LOAD TENDER.  
- DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

**DTM SEGMENT**

DATE/TIME REFERENCE

OCCURS 1 TIME

## ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
DTM01	374	DATE/TIME QUALIFIER	M	M	ID	03/03	USE "011" FOR DATE SHIPPED.
DTM02	373	DATE	X	M	DT	08/08	DATE SHIPPED YYYYMMDD.

**N1 SEGMENT**

NAME

OCCURS 1 TIME

## ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N101	98	ENTITY IDENTIFIER	M	M	ID	02/03	USE "SF" FOR SHIPPED FROM.
N102	93	NAME	X	M	AN	01/60	VENDOR NAME.

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

**N3 SEGMENT** ADDRESS INFORMATIONOCCURS 1 TIME  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N301	166	ADDRESS	M	M	AN	01/55	ADDRESS OF SHIPMENT'S ORIGIN POINT.

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / &lt; &gt; ( ) @ % &amp; # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

**N4 SEGMENT** GEOGRAPHIC LOCATIONOCCURS 1 TIME  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N401	19	CITY	O	M	AN	02/30	CITY OF SHIPMENT'S ORIGIN POINT.
N402	156	STATE	O	M	ID	02/02	STATE OF SHIPMENT'S ORIGIN POINT.
N403	116	ZIP	O	M	ID	03/15	ZIP OF SHIPMENT'S ORIGIN POINT.

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / &lt; &gt; ( ) @ % &amp; # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

**HL SEGMENT** HIERARCHICAL LEVELHL LOOP (SECOND OCCURRANCE OF LOOP)  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL02	734	HIERARCHICAL PARENT ID	O	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	USE "O" FOR PO LEVEL.

**PRF SEGMENT** PURCHASE ORDER REFERENCEOCCURS 1 TIME  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
PRF01	324	PO NUMBER	M	M	AN	01/22	PO NUMBER.
PRF07	92	PURCHASE ORDER TYPE CODE	O	M	ID	02/02	USE CODES BELOW FOR IDENTIFYING PURCHASE ORDER TYPE: <b>KN = RSC PURCHASE ORDER</b> (REPRESENTS ORDERS SHIPPED TO AN ACE WAREHOUSE) <b>DS = DROP SHIP</b> (REPRESENTS ORDERS SHIPPED DIRECTLY TO AN ACE RETAILER)

NOTES: - SEND BACK THE SAME PURCHASE ORDER # THAT WAS SENT ON THE ORIGINAL PURCHASE ORDER  
- DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.**THE FOLLOWING SECTION PERTAINS TO GS1-128 AND IS MANDATORY FOR ALL RSC SHIPMENTS***(HOWEVER, GS1-128 IS NOT NEEDED FOR DROP SHIP ORDERS.)***IF SHIPPING A PALLETIZED LOAD, TARE/PALLET LEVEL GS1-128 DATA IS REQUIRED:****HL SEGMENT** HIERARCHICAL LEVELHL LOOP SOTI LOOP  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL02	734	HIERARCHICAL PARENT ID	O	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	USE "T" FOR PALLET.

**MAN SEGMENT** PALLET IDENTIFICATIONOCCURS 1 TIME PER HL T LOOP  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
MAN01	324		M	M	ID	01/02	ID = GM = APPLICATION IDENTIFIER
MAN02	92		O	M	ID	02/20	PALLET IDENTIFICATION NUMBER GS1-128 PALLET ID (SSCC CODE) ** MUST BE 20 CHARACTERS IN LENGTH ** MUST HAVE 2 LEADING ZEROES ** MUST EMBED REGISTERED GS1 COMPANY PREFIX (DO NOT USE VENDOR NUMBER) ** MUST BE ALL NUMERIC - NO ALPHA CHARACTERS ** MUST BE A UNIQUE SEQUENTIAL PALLET ID (CANNOT BE REUSED) ** ONE MAN SEGMENT PER LOOP

NOTE: THE GS1-128 SSCC CODES SHOULD BE 20 CHARACTERS AND COMPRISED OF 2 LEADING ZEROES, FOLLOWED BY A SINGLE NUMBER (ANY VALUE), FOLLOWED BY YOUR REGISTERED GS1 COMPANY PREFIX, FOLLOWED BY A UNIQUE SEQUENTIAL # AND ENDING WITH A CHECK DIGIT.

**IF SHIPPING LOOSE CARTONS VIA SMALL PARCEL, PACK/CARTON LEVEL GS1-128 DATA IS REQUIRED:****HL SEGMENT** HIERARCHICAL LEVEL

HL LOOP SOPI LOOP

**PACK LEVEL** (HL LOOP FOR CARTON LEVEL)

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL02	734	HIERARCHICAL PARENT ID	O	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	USE "P" FOR PACK/CARTON

**MAN SEGMENT** PURCHASE ORDER REFERENCEOCCURS 1 TIME PER HL P LOOP  
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
MAN01	324		M	M	ID	01/02	ID = GM = APPLICATION IDENTIFIER
MAN02	92		O	M	ID	02/20	GS1-128 CARTON ID/SSCC CODE **MUST BE 20 CHARACTERS IN LENGTH ** MUST HAVE 2 LEADING ZERO'S ** MUST EMBED REGISTERED GS1 COMPANY PREFIX (DO NOT USE VENDOR NUMBER) ** MUST BE ALL NUMERIC - NO ALPHA CHARACTERS ** MUST BE A UNIQUE SEQUENTIAL CARTON ID (CANNOT BE REUSED) ** ONE MAN SEGMENT PER LOOP

- NOTES:
- THE GS1-128 SSCC CODES SHOULD BE 20 CHARACTERS AND COMPRISED OF 2 LEADING ZEROES, FOLLOWED BY A SINGLE NUMBER (ANY VALUE), FOLLOWED BY YOUR REGISTERED GS1 COMPANY PREFIX, FOLLOWED BY A UNIQUE SEQUENTIAL # AND ENDING WITH A CHECK DIGIT.
  - DO NOT SEND BOTH TARE AND PACK LEVEL GS1-128 DATA IN THE ASN. USE TARE/PALLET LEVEL GS1-128 DATA FOR PALLETIZED LOADS AND PACK/CARTON LEVEL FOR SMALL PARCEL SHIPMENTS.
  - REGARDING LABEL REQUIREMENTS, GS1-128 LABELS ARE REQUIRED AS FOLLOWS:
    - FOR PALLETIZED LOADS, ACE REQUIRES ONE UNIQUE GS1-128 LABEL PER PALLET.
    - FOR SMALL PARCEL SHIPMENTS (SUCH AS UPS OR FEDEX), ACE REQUIRES ONE GS1-128 LABEL PER SHIPPING CARTON.
  - FOR QUESTIONS RE: GS1-128, PLEASE CONTACT: GS1128COMPLIANCE@ACEHARDWARE.COM.

HL SEGMENT		HIERARCHICAL LEVEL	HL LOOP OCCURS ONE TIME				
ITEM LEVEL		(HL LOOP FOR ITEM LEVEL)	ACE MANDATORY SEGMENT				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL02	734	HIERARCHICAL PARENT ID	O	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	"I" = ITEM LEVEL.

LIN SEGMENT		ITEM IDENTIFICATION	OCCURS 1 TIME PER LOOP				
			ACE MANDATORY SEGMENT				
DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
LIN01	350	ASSIGNED IDENTIFICATION	O/Z	O	AN	01/20	PO LINE ITEM IDENTIFICATION ***NO ALPHA CHARACTERS TO BE USED
LIN02	235	PRODUCT / SERVICE ID QUALIFIER	M	M	ID	02/02	"UK" = UPC CODE OR "IN" = ACE SKU NUMBER OR "VN" = VENDORS ITEM NUMBER/MANUFACTURER# OR "LT" = LOT NUMBER
LIN03	234	PRODUCT / SERVICE ID	M	M	AN	01/48	IF LIN02 = "UK" ENTER UPC OR EAN #. IF LIN02 = "IN" ENTER ACE SKU NUMBER. IF LIN02 = "VN" ENTER VENDORS ITEM NUMBER/MANUFACTURER # IF LIN02 = "LT" LOT NUMBER
LIN04	235	PRODUCT / SERVICE ID QUALIFIER	X	M	ID	02/02	"UK" = UPC CODE OR "IN" = ACE SKU NUMBER OR "VN" = VENDORS ITEM NUMBER/MANUFACTURER# OR "LT" = LOT NUMBER
LIN05	234	PRODUCT / SERVICE ID	X	M	AN	01/48	IF LIN04 = "UK" ENTER UPC OR EAN # IF LIN04 = "IN" ENTER ACE SKU NUMBER. IF LIN04 = "VN" ENTER VENDORS ITEM NUMBER/MANUFACTURER # IF LIN04 = "LT" LOT NUMBER
LIN06	235	PRODUCT / SERVICE ID QUALIFIER	X	M	ID	02/02	"UK" = UPC CODE OR "IN" =-ACE SKU NUMBER OR "VN" = VENDORS ITEM NUMBER/MANUFACTURER # OR "LT" = LOT NUMBER
LIN07	234	PRODUCT / SERVICE ID	X	M	AN	01/48	IF LIN06 = "UK" ENTER UPC OR EAN #. IF LIN06 = "IN" ENTER ACE SKU NUMBER IF LIN06 = "VN" ENTER VENDORS ITEM/MANUFACTURER # IF LIN06 = "LT" ENTER LOT NUMBER
LIN08	235	PRODUCT / SERVICE ID QUALIFIER	X	M	ID	02/02	"UK" = UPC CODE OR "IN" =-ACE SKU NUMBER OR "VN" = VENDORS ITEM NUMBER/MANUFACTURER # OR "LT" = LOT NUMBER
LIN09	234	PRODUCT / SERVICE ID	X	M	AN	01/48	IF LIN06 = "UK" ENTER UPC OR EAN #. IF LIN06 = "IN" ENTER ACE SKU NUMBER IF LIN06 = "VN" ENTER VENDORS ITEM/MANUFACTURER # IF LIN06 = "LT" ENTER LOT NUMBER

- NOTES:
- THE UPC CODE CAN BE TRANSMITTED WITH 12 DIGITS OR 14 DIGITS IF TWO LEAD ZEROES ARE INCLUDED.
  - FOR RSC ORDERS, THE UPC, ACE SKU # AND MANUFACTURER # ARE ALL INCLUDED IN THE PURCHASE ORDER. YOU ARE REQUESTED TO SEND ALL 3 BACK IN YOUR ASN.
  - IF THE MANUFACTURER # ON ACE'S PO IS INCORRECT, CONTACT YOUR MERCHANT OR PLANNER TO HAVE IT UPDATED IN ACE'S SYSTEM.
  - FOR DROP SHIP ASNs, PLEASE TRANSMIT YOUR VENDOR ITEM #/MANUFACTURER # AND UPC IN YOUR ASN.
  - REGARDING LOT NUMBER REQUIREMENTS, THE LT QUALIFIER IS REQUIRED FOR ITEMS THAT HAVE LOT NUMBERS (SUCH AS PERISHABLE PRODUCT). A PALLET CAN HAVE MULTIPLE ITEMS, BUT ONLY ONE LOT NUMBER PER SKU PER PALLET IS ALLOWED.
  - DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / < > ( ) @ % & # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

SN1 SEGMENT		ITEM DETAIL (SHIPMENT)	OCCURS 1 TIME PER LOOP				
			ACE MANDATORY SEGMENT				
DATA	ELEMENT	DATA ELEMENT NAME	ANSI	ACE	DATA	ELEMENT	ACE REQUESTED

ELEMENT	NUMBER		REQ	REQ	TYPE	LENGTH	FIELD CONTENTS
SN102	382	NUMBER OF UNITS SHIPPED	M	M	R	01/10	# OF UNITS SHIPPED.
SN103	355	UNIT OF MEASURE	M	M	ID	02/02	FOLLOW STANDARD *
SN105	330	QUANTITY ORDERED	X	M	R	01/15	# OF UNITS ORDERED.
SN106	355	UNIT OF MEASURE	X	M	ID	02/02	FOLLOW STANDARD *

NOTES: PLEASE RETURN THE SAME UNIT OF MEASURE CODE THAT YOU RECEIVED ON THE ACE PURCHASE ORDER.  
**DO NOT SEND ZERO QUANTITIES SHIPPED ON ASN AS THIS WILL CAUSE BACK END PROCESSING FAILURES.**

**PID SEGMENT** PRODUCT/ITEM DESCRIPTION

OCCURS 1 TIME PER LOOP

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
PID01	349	ITEM DESCRIPTION TYPE	M	M	ID	01/01	"F" = FREE FORM.
PID05	352	DESCRIPTION	X	M	AN	01/80	ITEM DESCRIPTION

NOTE: DO NOT USE ANY SPECIAL CHARACTERS IN ANY OF THE ELEMENTS - EXAMPLE : . , \* / &lt; &gt; ( ) @ % &amp; # ETC. AS THIS WILL CAUSE THE DOCUMENT TO STOP DURING TRANSLATION.

**THIS SEGMENT IS MANDATORY IF AN ITEM HAS AN EXPIRATION DATE****DTM SEGMENT** DATE/TIME REFERENCE

OCCURS 1 TIME PER LOOP

ACE MANDATORY SEGMENT IF ITEM HAS AN EXPIRATION DATE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
DTM01	374	DATE/TIME QUALIFIER	M	M	ID	03/03	USE "036" FOR EXPIRATION DATE
DTM02	373	DATE	X	M	DT	08/08	EXPIRATION DATE

**CTT SEGMENT** TRANSACTION TOTALS

OCCURS 1 TIME

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
CTT01	354	NUMBER OF LINE ITEMS	M	M	N0	01/06	TOTAL NUMBER OF LINE ITEMS IN THE TRANSACTION SET.

**SE SEGMENT** TRANSACTION SET TRAILER  
(X12 MANDATORY ENVELOPE)

OCCURS 1 TIME

ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
SE01	96	NUMBER OF INCLUDED SEGMENTS	M	M	N0	01/06	FOLLOW STANDARD.
SE02	329	TRANSACTION SET CONTROL NO	M	M	AN	04/09	FOLLOW STANDARD.

**GE SEGMENT** FUNCTIONAL GROUP TRAILER  
(X12 MANDATORY ENVELOPE)

OCCURS 1 TIME

ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
GE01	97	NO. OF INCLUDED TRANSACTION SETS	M	M	N0	01/06	FOLLOW STANDARD.
GE02	28	GROUP CONTROL NO	M	M	N0	01/09	FOLLOW STANDARD.

**IEA SEGMENT** INTERCHANGE CONTROL TRAILER  
(X12 MANDATORY ENVELOPE)

OCCURS 1 TIME

ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
IEA01	116	NUMBER OF INCLUDED GROUPS	M	M	N0	01/05	FOLLOW STANDARD.
IEA02	112	INTERCHANGE CONTROL NO	M	M	N0	01/09	FOLLOW STANDARD.

THE FOLLOWING REPRESENTS SAMPLE EDI856s FOR YOUR REFERENCE:

**EDI856/ASN SAMPLE FOR GS1-128 TARE/PALLET DATA - SINGLE SKU PALLET**

ISA\*00\* \*00\* \*01\*006928311 \*ZZ\*222222222 \*210201\*0400\*U\*00400\*999007782\*0\*P\*>~  
GS\*SH\*006928311\*222222222\*20210201\*0400\*999007783\*X\*004010~  
ST\*856\*0001~  
BSN\*00\*888888888\*20210201\*0400440~  
HL\*1\*\*S~  
TD1\*\*\*\*\*151.3\*LB~  
**TD5\*\*2\*ACHW\*\*ACE FLEET WIS1~**  
REF\*CN\*PRONUM777777~  
REF\*BM\*BOLNUM12345~  
REF\*LO\*TMSIDNUM1234~  
DTM\*011\*20210201~  
N1\*SF\*Wilton Retail Support Center~  
N3\*295 Ballard Rd~  
N4\*Gansevoort\*NY\*12831~  
HL\*2\*1\*O~  
PRF\*2222222\*\*\*\*\*KN~  
HL\*3\*2\*T~  
MAN\*GM\*00999999999999999999~ **PALLET ID NUM/GS1-128 SSCC CODE**  
HL\*4\*3\*I~  
LIN\*10\*VN\*06666666\*IN\*0007777\*UK\*8888888888888\*LT\*999999999~  
SN1\*\*1\*EA\*\*1\*EA~  
PID\*F\*\*\*\*DESCRIPTION OF FILE~  
DTM\*036\*20210501~  
CTT\*1~  
SE\*22\*0001~  
GE\*1\*999007783~  
IEA\*1\*999007782~

**EDI856/ASN SAMPLE FOR GS1-128 PACK/CARTON DATA - SINGLE SKU CARTON**

ISA\*00\* \*00\* \*01\*006928311 \*ZZ\*222222222 \*210201\*0400\*U\*00400\*999007782\*0\*P\*>~  
GS\*SH\*006928311\*222222222\*20210201\*0400\*999007783\*X\*004010~  
ST\*856\*0001~  
BSN\*00\*888888888\*20210201\*0400440~  
HL\*1\*\*S~  
TD1\*\*\*\*\*11.3\*LB~  
**TD5\*\*2\*UPSN\*\*UPS Domestic Ground~**  
REF\*CN\*PRONUM777777~  
REF\*BM\*BOLNUM12345~  
REF\*LO\*TMSIDNUM1234~  
DTM\*011\*20210201~  
N1\*SF\*Wilton Retail Support Center~  
N3\*295 Ballard Rd~  
N4\*Gansevoort\*NY\*12831~  
HL\*2\*1\*O~  
PRF\*2222222\*\*\*\*\*KN~  
HL\*3\*2\*P~  
MAN\*GM\*00999999999999999999~ **CARTON ID NUM/GS1-128 SSCC CODE**  
HL\*4\*3\*I~  
LIN\*10\*VN\*06666666\*IN\*0007777\*UK\*8888888888888\*LT\*999999999~  
SN1\*\*1\*EA\*\*1\*EA~  
PID\*F\*\*\*\*DESCRIPTION OF FILE~

DTM\*036\*20210501~  
CTT\*1~  
SE\*22\*0001~  
GE\*1\*999007783~  
IEA\*1\*999007782~

**EDI856/ASN SAMPLE FOR GS1-128 - SINGLE PALLET W/ MULTIPLE SKUS**

ISA\*00\* \*00\* \*12\*77777777 \*01\*006928311 \*220111\*1345\*U\*00401\*100000594\*0\*P\*}  
GS\*SH\*777777777\*006928311\*20220111\*1345\*1594\*X\*004010  
ST\*856\*1594  
BSN\*00\*757\*20220110\*0737  
HL\*1\*\*S  
TD1\*\*\*\*\*220.0\*LB  
**TD5\*\*2\*ACHW\*\*ACE FLEET WIS1~**  
REF\*CN\*137389450  
REF\*BM\*2231123  
DTM\*011\*20220111  
N1\*SF\*NORTH TEST VENDOR NAME  
N3\*24138 TEST AVE  
N4\*Siren\*WI\*54872  
HL\*2\*1\*O  
PRF\*SSSSS\*\*\*\*\*KN  
HL\*3\*2\*T  
MAN\*GM\*00100261070000122497  
HL\*4\*3\*I  
LIN\*1\*VN\*5555\*UK\*000222222222\*IN\*3333333  
SN1\*\*20\*EA\*\*20\*EA  
PID\*F\*\*\*MESH GATE TEST  
HL\*5\*3\*I  
LIN\*3\*VN\*9999\*UK\*000666666666\*IN\*8888888  
SN1\*\*48\*EA\*\*48\*EA  
PID\*F\*\*\*HOOK TEST  
HL\*6\*3\*I  
LIN\*4\*VN\*8888\*UK\*000111111111\*IN\*4444444  
SN1\*\*12\*EA\*\*12\*EA  
PID\*F\*\*\*BARN TEST  
HL\*7\*3\*I  
LIN\*5\*VN\*2222\*UK\*000555555555\*IN\*1111111  
SN1\*\*8\*EA\*\*8\*EA  
PID\*F\*\*\*GREEN TEST  
HL\*8\*3\*I  
LIN\*6\*VN\*7777\*UK\*000444444444\*IN\*7777777  
SN1\*\*22\*EA\*\*22\*EA  
PID\*F\*\*\*BIRD FEED TEST  
CTT\*8  
SE\*37\*1594  
GE\*1\*1594  
IEA\*1\*100000594

PALLET ID/GS1-128 SSCC CODE

1ST SKU

2ND SKU

3RD SKU

4TH SKU

5TH SKU

**EDI856/ASN SAMPLE FOR GS1-128 - ONE PO MULTIPLE PALLETS FOR SAME SKU**

ISA\*00\* \*00\* \*12\*777777777 \*01\*006928311 \*220111\*1350\*U\*00401\*100000598\*0\*P\*}  
GS\*SH\*777777777\*006928311\*20220111\*1350\*1598\*X\*004010  
ST\*856\*1598  
BSN\*00\*761\*20220110\*0755  
HL\*1\*\*S  
TD1\*\*\*\*\*377.0\*LB  
**TD5\*\*2\*ACHW\*\*ACE FLEET WIS1**  
REF\*CN\*137389450  
REF\*BM\*2231119  
DTM\*011\*20220111  
N1\*SF\*TEST VENDOR NAME  
N3\*2224 TEST AVE  
N4\*Siren\*WI\*54872  
HL\*2\*1\*O  
PRF\*TTTTT\*\*\*\*\*KN  
HL\*3\*2\*T  
MAN\*GM\*00100261070000122756  
HL\*4\*3\*I  
LIN\*1\*VN\*4444\*UK\*000222222222\*IN\*5555555  
SN1\*\*32\*EA\*\*96\*EA  
PID\*F\*\*\*\*MESH GATE TEST  
HL\*5\*2\*T  
MAN\*GM\*00100261070000122763  
HL\*6\*5\*I  
LIN\*1\*VN\*4444\*UK\*000222222222\*IN\*5555555  
SN1\*\*32\*EA\*\*96\*EA  
PID\*F\*\*\*\*MESH GATE TEST  
HL\*7\*2\*T  
MAN\*GM\*00100261070000122770  
HL\*8\*7\*I  
LIN\*1\*VN\*4444\*UK\*000222222222\*IN\*5555555  
SN1\*\*32\*EA\*\*96\*EA  
PID\*F\*\*\*\*MESH GATE TEST  
CTT\*8  
SE\*33\*1598  
GE\*1\*1598  
IEA\*1\*100000598

PALLET ID/GS1-128 SSCC CODE

PALLET ID/GS1-128 SSCC CODE

PALLET ID/GS1-128 SSCC CODE