FRY'S ELECTRONICS

856 Advance Ship Notice Implementation Guide

Version: 1.5a

Date: 3/1/2012

Revision History

Date	Revision Detail	Revised by	Date
1.1	First Draft of the document from Mahesh	Mahesh	9/10/2011
1.2	Drastically changed the first draft	Pui Kwan	10/12/2011
1.3	Packing Slip is compulsory;	Pui Kwan	11/21/2011
1.4	Packing Slip is no longer compulsory; One shipment can contain multiple POs and multiple boxes. The tracking number of each box can be specified. Inside a box, items of a PO can be packed in a smaller box.	Pui Kwan	1/18/2012
1.5	Make version 1.4 clearer; Provide more examples A warning that the old format in Versions 1.2 & 1.3 will soon be obsolete.	Pui Kwan	2/14/2012
1.5a	No longer make the tracking number and bill of lading number compulsory. Effective April 9, 2012, a ASN without SSCC labels or a ASN with S->O->I hierarchy will be rejected. Take away the warning: “The old format in Versions 1.2 & 1.3 will soon be obsolete.”	Pui Kwan	3/1/2012

Introduction

This is the Fry's implementation guide of EDI 856, also called Advance Shipping Notice or ASN. It provides the detailed requirement of an EDI 856 file sent to Fry's.

Back in version 1.2 and 1.3, an ASN can contains multiple boxes, but only limits to a single PO and one pallet. It also does not have the capability to specify multiple tracking numbers for each box.

Starting from version 1.4, an ASN can have multiple POs. Multiple pallets, multiple boxes and multiple sub-boxes are supported too. It also allows a tracking number to be specified for each box, and a packing slip specified for each order. Items not packed in a pallet or a box are still not allowed.

One important note: in order to for us to parse the ASN correctly, the shipment hierarchy **MUST** be defined using **Depth-First traversal**. Please refer to the section "How to prepare ASN".

Some Words on the Old format

In order to provide backward compatibility, we basically accept the old format specified in Versions 1.1, 1.2 and 1.3. The old format allows one tracking number to be specified in the SHIPMENT level although there may be many boxes. A packing slip number is allowed to be specified in the SHIPMENT level although in the new version it is specified in the ORDER level. It also allows the absence of a SSCC label in the MAN segment at the Pallet and Box level**.** It even allows a simple hierarchy as (Shipment → Order → Item)**.**

However, effective April 9, 2012, we will not support
(a) ASNs with the hierarchy: Shipment → Order → Item
(b) ASNs with no SSCC labels in the Pallet and Box levels

Please make changes to your ASN file so that (a) it will not write any tracking number in the SHIPMENT level but provide it in the Pallet or Box level, (b) it will not write a packing list number in the SHIPMENT level but in the ORDER level, (c) it will always provide a SSCC label for each pallet, box and sub-box, (d) it will not create a **Shipment → Order → Item** hierarchy.

The current vendors sending in the old format should start changing their ASNs to be compliant to the current version. New vendor waiting for Fry's certification of their ASNs should only send in files compliant to the current version also.

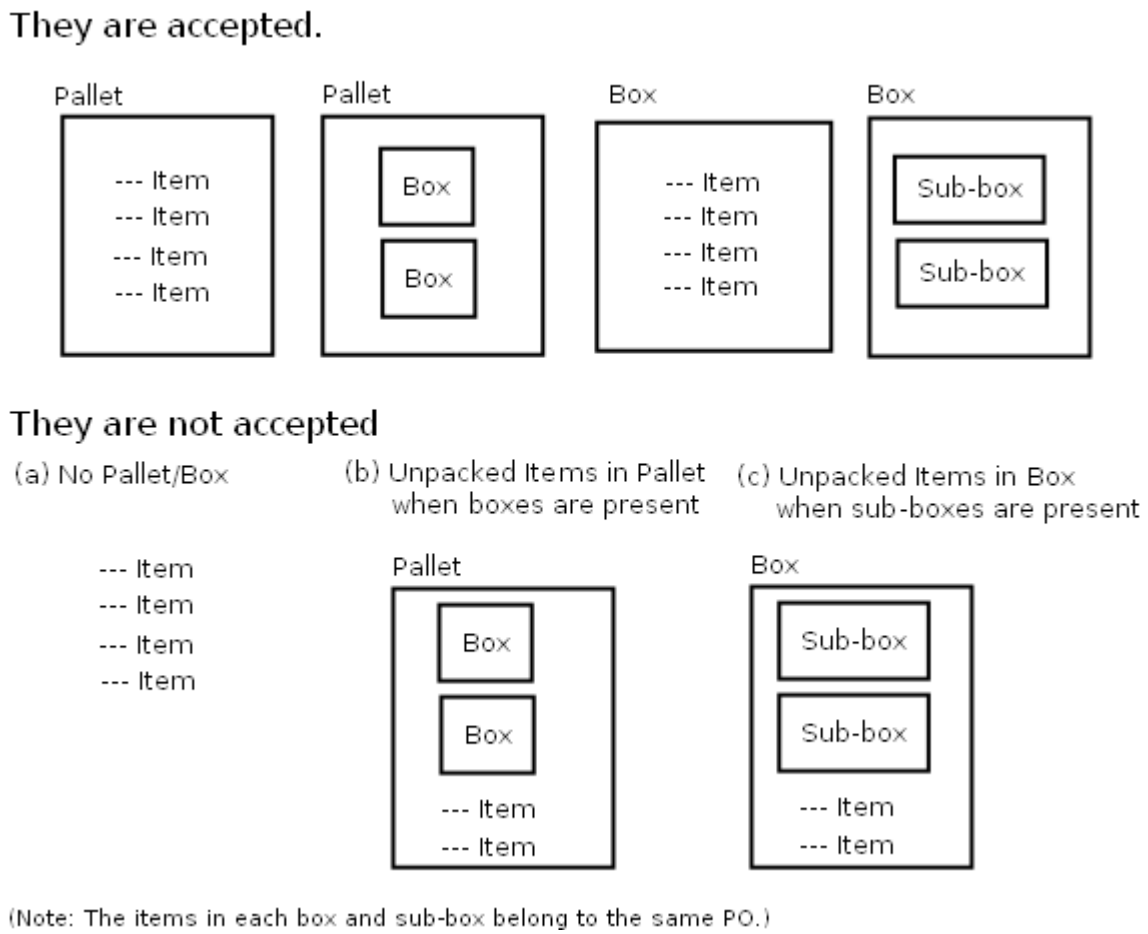
Terminology

Tare and Pallet are interchangeable.
Carton, Box and Package are interchangeable.
PO, Purchase Order and Order are interchangeable.
Sub-box, Smaller box, Inner box, or Package Inside a box are interchangeable.

Ways to Pack Items

Multiple pallets and multiple boxes and multiple sub-boxes are accepted. Each box or sub-box is required to store one PO. If a box has items from different POs, sub-boxes are needed so that different POs are placed separately.

Also all items must be placed in a pallet, a box or an inner-box, and it is an ERROR (a) when a pallet contains boxes along with any unpacked items, or (b) when a box contains inner boxes together with any unpacked items.



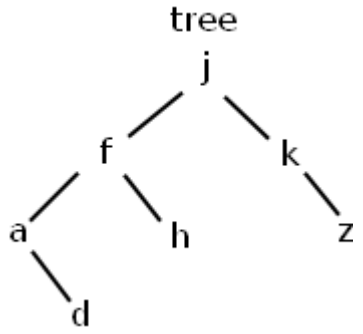
(Note: The items in each box and sub-box belong to the same PO.)

For the UPS or FedEx type **tracking number**, it is required on the outside of a box. If a containing box has two inner boxes, the tracking number is only required on the outside of the containing box.

A **SSCC label** is required for a pallet, a box and an inner box. In a case that a containing box has two inner boxes, the containing box can either use a different SSCC label, or have a same SSCC label as one of the SSCC labels on the inner boxes. For information of the SSCC label, please refer to **www.gs1us.org.**

How to Prepare ASN

1. We prefer the vendor to provide the Bill of Lading number or tracking number. If there is a Bill of Lading number (which should be placed in the SHIPMENT level), no tracking number should be specified. If a tracking number is specified for the pallet and the box, no Bill of Lading number should be specified.
2. The packing slip number (which should be placed at the ORDER level) is optional.
3. In the SHIPMENT level,
   - Either a ship date, scheduled ship date or scheduled delivery date must be provided.
   - The Fry's assigned vendor number is required.
4. ORDER level
   - A PO number is required.
   - A packing slip number in the REF segment is optional.
5. PALLET level
   - A SSCC label of a pallet is required in the MAN segment.
   - A tracking number, if present, should be provided.
6. BOX level
   - A SSCC label of a box is required in the MAN segment.
   - A tracking number in the REF segment, if present, should be provided
     (Note: the REF segment must be after the MAN segment.)
7. SUB-BOX level
   - A SSCC label of a sub-box is required in the MAN segment
8. HL segments
   Any shipment can be viewed as a top-down tree with the SHIPMENT level always on the top. Please define the HL levels as if you were doing **DEPTH-FIRST TRAVERSAL**. For example,



The depth-first traversal would visit the elements in the order: **j, f, a, d, h, k, z**
(The following orders are not correct: "j, f, k, a, h, z, d" or "j, f, a, d, k, z, h")

For examples of creating the segments, please refer to the section "Scenarios".

Scenarios

(Since all items must be placed or put in a box or pallet, and the Order level must be above the Pallet, Box or Sub-box level, these hierarchies are not allowed: SPOI, STOI, STPOI, SPPOI, STPPOI.)

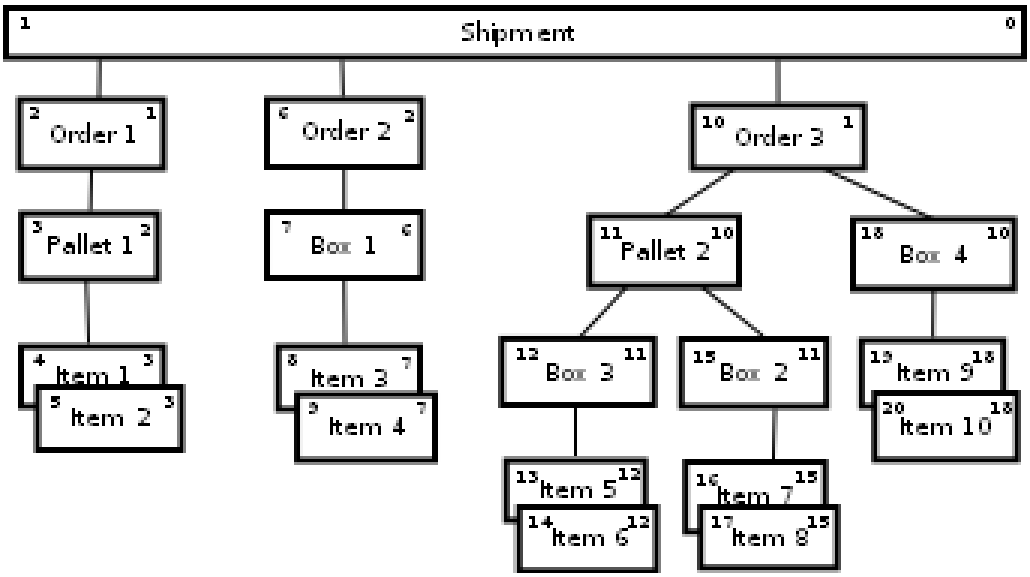
(a) Pallets and Boxes (Most Cases)

(This scenario accommodates most of the situations.)

The traditional hierarchies suffice:

1. SOPI (Shipment → Order → Package → Items)
2. SOTI (Shipment → Order → Tare → Items)
3. SOTPI. (Shipment → Order → Tare → Package → Items)

The shipment has three orders. The first order is in a pallet. The second order is in a box. The third order is in a pallet (the pallet has 2 boxes) and a box.



<u>Snippet of ASN</u>

HL*1*0*S~
HL*2*1*O~
HL*3*2*T~
HL*4*3*I~
HL*5*3*I~
HL*6*1*O~
HL*7*6*P~
HL*8*7*I~
HL*9*7*I~
HL*10*1*O~
HL*11*10*T~
HL*12*11*P~

HL*13*12*I~
HL*14*12*I~
HL*15*11*P~
HL*16*15*I~
HL*17*15*I~
HL*18*10*P~
HL*19*18*I~
HL*20*18*I~

A complete ASN (By UPS)

(In real situations, United Parcel Services, Inc. (UPS) seldom ships pallets. In order to illustrate the presence of tracking numbers and the absence of the BOL number, we still create the ASN shown below. Note again: there is no BOL number; the tracking numbers are only shown at the Pallet and Box (if the box is not contained in a pallet) levels, but not at the Sub-box level.)

ISA*00* *00* *01*123456789 *01*000099999 *111005*1841*U*00401*000016076*0*P*>
~GS*SH*077010254*000099999*20111005*1841*16076*X*004010~
ST*856*160760001~
BSN*00*8107585589-111005*20111005*1835*0001~
HL*1*0*S~
TD1*CTN*1****G*143*LB~
TD5**2*ADAN~
REF*IA*57703~
DTM*011*20111005~
N1*SF*[ADC] SEA LA~
N3*19200 S. WESTERN VENUE~
N4*TORRANCE*CA*90501~
N1*ST**92*044~
HL*2*1*O~
PRF***17742900~
REF*PK*58987200~
HL*3*2*T~
MAN*GM*00000367256041231001~
REF*CN*0006277901~
HL*4*3*I~
LIN**VP*DV431AGP/XAA_01*UP*36725569201~
SN1**1*EA~
HL*5*3*I~
LIN**VP*DV431AGP/XAA_02*UP*36725569202~
SN1**1*EA~
HL*6*1*O~
PRF***17742901~
REF*PK*58987201~
HL*7*6*P~
MAN*GM*00000367256041231002~
REF*CN*0006277901~
HL*8*7*I~
LIN**VP*DV431AGP/XAA_03*UP*36725569203~
SN1**1*EA~
HL*9*7*I~
LIN**VP*DV431AGP/XAA_04*UP*36725569204~
SN1**1*EA~
HL*10*1*O~
PRF***17742902~
REF*PK*58987202~
HL*11*10*T~
MAN*GM*00000367256041231003~

REF*CN*0006277903~
HL*12*11*P~
MAN*GM*00000367256041231004~
HL*13*12*I~
LIN**VP*DV431AGP/XAA_05*UP*36725569205~
SN1**1*EA~
HL*14*12*I~
LIN**VP*DV431AGP/XAA_06*UP*36725569206~
SN1**1*EA~
HL*15*11*P~
MAN*GM*00000367256041231005~
HL*16*15*I~
LIN**VP*DV431AGP/XAA_07*UP*36725569207~
SN1**1*EA~
HL*17*15*I~
LIN**VP*DV431AGP/XAA_08*UP*36725569208~
SN1**1*EA~
HL*18*10*P~
MAN*GM*00000367256041231006~
REF*CN*0006277906~
HL*19*18*I~
LIN**VP*DV431AGP/XAA_09*UP*36725569209~
SN1**1*EA~
HL*20*18*I~
LIN**VP*DV431AGP/XAA_10*UP*36725569210~
SN1**1*EA~
CTT*20~
SE*64*160760001~
GE*1*16076~
IEA*1*000016076~

(b) Pallets, Boxes, Sub-boxes (Special Case)

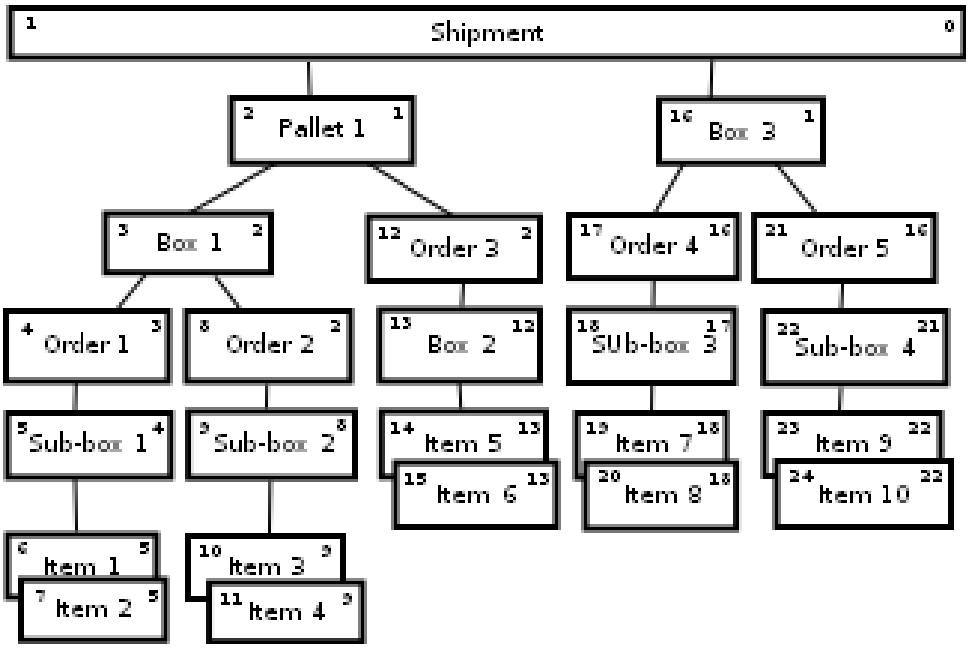
(The SPECIAL CASE scenario is intended to accommodate the situation in which the boxes (inside a pallet) have different POs, or sub-boxes (inside a box) have different POs.)

If a vendor needs to send multiple POs in one box, it needs to get the approval from Fry's. Once the vendor is approved, the ASN can have these hierarchies as well:

1. STOPI (Shipment → Tare → Order → Package → Items)
2. SPOPI. (Shipment → Package → Order → Inner Box → Items)
3. STPOPI (Shipment → Tare → Package → Order → Inner Box → Items)

The shipment has a pallet and a separate box.

1. The pallet has two boxes. The first box has 2 inner-boxes, each of which has a different order. The second box has another order.
2. The separate box has 2 inner-boxes, each of which has a different order.



<u>Snippet of ASN</u>

```
HL*1*0*S~
HL*2*1*T~
HL*3*2*P~
HL*4*3*O~
HL*5*4*P~
HL*6*5*I~
HL*7*5*I~
HL*8*3*O~
HL*9*8*P~
HL*10*9*I~
HL*11*9*I~
HL*12*2*O~
HL*13*12*P~
HL*14*13*I~
```

HL*15*13*I~
HL*16*1*P~
HL*17*16*O~
HL*18*17*P~
HL*19*18*I~
HL*20*18*I~
HL*21*16*O~
HL*22*21*P~
HL*23*22*I~
HL*24*22*I~

A complete ASN (By Freight)
(Note: there is only one BOL number and no tracking number.)

ISA*00* *00* *01*123456789 *01*000099999 *111005*1841*U*00401*000016055*0*P*>
~GS*SH*077010254*000099999*20111005*1841*16055*X*004010~
ST*856*160760005~
BSN*00*8107585589-111005*20111005*1835*0001~
HL*1*0*S~
TD1*CTN*1****G*143*LB~
TD5**2*ADAN~
REF*BM*8107589901~
REF*IA*57703~
DTM*011*20111005~
N1*SF*[ADC] SEA LA~
N3*19200 S. WESTERN VENUE~
N4*TORRANCE*CA*90501~
N1*ST**92*044~
HL*2*1*T~
MAN*GM*00000367256041239001~
HL*3*2*P~
MAN*GM*00000367256041239002~
HL*4*3*O~
PRF***17742801~
REF*PK*58987301~
HL*5*4*P~
MAN*GM*00000367256041239003~
HL*6*5*I~
LIN**VP*DV431AGP/XAA_501*UP*36725569501~
SN1**1*EA~
HL*7*5*I~
LIN**VP*DV431AGP/XAA_502*UP*36725569502~
SN1**1*EA~
HL*8*3*O~
PRF***17742802~
REF*PK*58987302~
HL*9*8*P~
MAN*GM*00000367256041239004~
HL*10*9*I~
LIN**VP*DV431AGP/XAA_503*UP*36725569503~
SN1**1*EA~
HL*11*9*I~
LIN**VP*DV431AGP/XAA_504*UP*36725569504~
SN1**1*EA~
HL*12*2*O~
PRF***17742803~
REF*PK*58987303~
HL*13*12*P~

HL*14*13*I~
LIN**VP*DV431AGP/XAA_505*UP*36725569505~
SN1**1*EA~
HL*15*13*I~
LIN**VP*DV431AGP/XAA_506*UP*36725569506~
SN1**1*EA~
HL*16*1*P~
MAN*GM*00000367256041239005~
HL*17*16*O~
PRF***17742804~
REF*PK*58987304~
HL*18*17*P~
MAN*GM*00000367256041239006~
HL*19*18*I~
LIN**VP*DV431AGP/XAA_507*UP*36725569507~
SN1**1*EA~
HL*20*18*I~
LIN**VP*DV431AGP/XAA_508*UP*36725569508~
SN1**1*EA~
HL*21*16*O~
PRF***17742805~
REF*PK*58987305~
HL*22*21*P~
MAN*GM*00000367256041239007~
HL*23*22*I~
LIN**VP*DV431AGP/XAA_509*UP*36725569509~
SN1**1*EA~
HL*24*22*I~
LIN**VP*DV431AGP/XAA_510*UP*36725569510~
SN1**1*EA~
CTT*24~
SE*74*160760005~
GE*1*16055~
IEA*1*000016055~

Old Format

```
ISA*00*          *00*          *01*123456789      *01*000099999
*111005*1841*U*00401*000016075*0*P*>~GS*SH*077010254*000099999*20111005*1841*16075*X*004010~
ST*856*160750001~
BSN*00*8107585589-111005*20111005*1835*0001~
HL*1**S~
TD1*CTN*1****G*143*LB~
TD5**2*ADAN~
REF*PK*58987228~
REF*BM*8107585589~
REF*CN*0006277936~
REF*IA*57703~
DTM*011*20111005~
N1*SF*[ADC] SEA LA~
N3*19200 S. WESTERN VENUE~
N4*TORRANCE*CA*90501~
N1*ST**92*044~
HL*2*1*O~
PRF***17742954~
HL*3*2*P~
MAN*GM*00000367256041231947~
HL*4*2*I~
LIN**VP*DV431AGP/XAA*UP*36725569201~
SN1**1*EA~
CTT*4~SE*22*160750001~
GE*1*16075~
IEA*1*000016075~
```

Basic Structure of EDI 856

ISA	Interchange Control Header
GS	Functional Group Header
ST	Transaction Set Header
BSN	Beginning Segment for Ship Notice – at Header Level
HL	Hierarchical Level – SHIPMENT DETAIL
TD1	Carrier Details (Quantity and Weight) – at Shipment Level
TD5	Carrier Details (Routing Sequence/Transit Time) – at Shipment Level
REF	Reference Identification (Bill of Lading) – at Shipment Level
REF	Reference Identification (Fry's Assigned Vendor Number)- at Shipment Level
REF	Reference Identification (Tracking Number)- at Shipment Level
REF	Reference Identification (Packing Slip)- at Shipment Level
DTM	Date/Time Reference (Date Shipped)- at Shipment Level
DTM	Date/Time Reference (Scheduled Ship Date)- at Shipment Level
DTM	Date/Time Reference (Scheduled Delivery Date)- at Shipment Level
FOB	F.O.B. Related Instructions – at Shipment Level
N1	Name (Ship From)- at Shipment Level
N3	Street Address (Ship From)- at Shipment Level
N4	Geographic Location (Ship From)- at Shipment Level
N1	Name – (Ship To) – at Shipment Level
HL	Hierarchical Level – ORDER DETAIL
PRF	Purchase Order Reference – at Order Level
REF	Reference Identification (Packing Slip) **(New in Version 1.4)**
HL	Hierarchical Level – TARE (PALLET) DETAIL
MAN	Marks and Numbers for Tare (Pallet) Level
HL	Hierarchical Level – CARTON (PACKAGE) DETAIL
MAN	Marks and Numbers for Carton(Package) Level
REF	Reference Identification (Tracking Number)) **(New in Version 1.4)**
HL	Hierarchical Level – SUB-BOX DETAIL **(New in Version 1.4)**
MAN	Marks and Numbers for SUB_BOX Level
HL	Hierarchical Level – ITEM DETAIL
LIN	Item Identification – at Item Level
SN1	Item Detail – at Item Level
CTT	Transaction Totals
SE	Transaction Set Trailer
GE	Functional Group Trailer
IEA	Interchange Control Trailer

ISA Interchange Control Header

Purpose: To identify the start of an interchange.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
ISA01	101	Authorization Information Qualifier Code Name 0 No Authorization Information Present	M	ID	2/2
ISA02	102	**Authorization Information** **Please Note:** This element should be filled with spaces	M	AN	10/10
ISA03	I03	**Security Information Qualifier** **00** No Security Information Present	M	ID	2/2
ISA04	I04	**Security Information** **Please Note:** This element should be filled with spaces.	M	AN	10/10
ISA05	I05	**Interchange ID Qualifier for Sender** Your company's Qualifier code	M	ID	2/2
ISA06	I06	**Interchange ID for Sender**	M	AN	15/15
ISA07	I05	**Fry's Interchange ID Qualifier** **"01"**	M	ID	2/2
ISA08	I07	**Fry's Interchange Receiver ID** **"000099999"**	M	AN	15/15
ISA09	I08	**Interchange Date** The date that the interchange was created. The format is **"YYMMDD".**	M	DT	6/6
ISA10	I09	**Interchange Time** The time that the interchange was created. The format is **HHMM (24 Hr).**	M	TM	4/4
ISA11	I10	**Interchange Control Standards Identifier** **"U"** – U.S. EDI community of X12	M	ID	1/1
ISA12	I11	**Interchange Control Version Number** **"00400"** Standard Issued as ANSI X12.5-1997	M	ID	5/5
ISA13	I12	**Interchange Control Number** **Please Note:** Send unique control numbers at the ISA level. Trading partner should not repeat the ISA control numbers for any document. This number should increment by one for each 856.	M	N0	9/9
ISA14	I13	**Acknowledgment Requested** **"1"** – Acknowledgment requested **"0"** – No Acknowledgment Requested	M	ID	1/1
ISA15	I14	**Usage Indicator** **Code** **Name** P Production Data T Test Data	M	ID	1/1
ISA16	I15	**Component Element Separator**	M		1/1

GS Functional Group Header

Purpose: To indicate the beginning of a functional group and to provide control information.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
GS01	479	**Functional Identifier Code** **Code** **Name** SH Ship Notice/Manifest (856)	M	ID	2/2
		Functional Identifier Code	M	ID	2/2
		Mandatory			1
GS02	142	**Application Sender's Code** **(same as ISA06)**	M	AN	2/15
GS03	124	**Application Receiver's Code** **(same as ISA08)**	M	AN	2/15
GS04	373	**Date** The format is **"YYMMDD".**	M	DT	8/8
GS05	337	**Time** The format is **HHMM (24 Hr).**	M	TM	4/8
GS06	28	**Group Control Number** **Note**: Send unique control numbers at the GS level. Trading partner should not repeat the GS control numbers for any document. This number should increment by one for each 856.	M	N0	1/9
GS07	455	**Responsible Agency Code** **X** Accredited Standards Committee X12	M	ID	1/2
GS08	480	**Version / Release / Industry Identifier** **004010**	M	AN	1/12

ST Transaction Set Header

Purpose: To indicate the start of a transaction set and to assign a control number.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3
		Code **Name** **856** Ship Notice/Manifest			
ST02	329	**Transaction Set Control Number**	M	AN	4/9
		Please Note: Send unique control numbers at the ST level. Trading partner should not repeat the ST control numbers for any document. This number should increment by one for each 856.			

Example:

ST*856*0001~

BSN Beginning Segment for Ship Notice

Purpose: It is used to transmit identifying numbers, dates, and other basic data related to the transaction set.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
BSN01	353	**Transaction Set Purpose Code** **Code** **Name** **00** Original	M	ID	2/2
BSN02	396	**Shipment Identification** **Please Note:** The shipper's unique control number should be sent here. This field value can include a maximum of 30 alpha-numeric characters. Do not zero-fill this field.	M	AN	2/30
BSN03	373	**Date** **Please Note:** This is the date the ASN was created, expressed in four digits as **YYYYMMDD**.	M	DT	8/8
BSN04	337	**Time** **Please Note:** The time the ASN was created, expressed in four digits as **HHMM** (20 hours).	M	TM	4/8
BSN05	1005	**Hierarchical Structure Code** Always **0001**	M	ID	4/4

HL Hierarchical Level – SHIPMENT Level

Purpose: It is used to indicate the start of the SHIPMENT level.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**
HL01	628	**Hierarchical ID Number** Fry's Electronics allows only numeric data values in the HL01. This element should always be **'1'**	M	AN	1/12
HL02	734	**Hierarchical Parent ID Number** **Please Note:** This element should be left blank.	O	AN	1/12
HL03	735	**Hierarchical Level Code** **S** Shipment	M	ID	1/2

Note:
The Shipment hierarchical loop is required on each ASN.

Example:

HL*1**S~ (shipment)
HL*2*1*O~ (order)
HL*3*2*T~ (first pallet associated with order level)
HL*4*3*I~ (item1 associated with first pallet)

HL*1**S~ (shipment)
HL*2*1*O~ (order)
HL*3*2*P~ (first carton associated with order level)
HL*4*3*I~ (item1 associated with first carton)
HL*5*2*P~ (second carton associated with order level)
HL*6*5*I~ (item1 associated with second carton)
HL*7*5*I~ (item2 associated with second carton)

HL*1**S~ (shipment)
HL*2*1*O~ (order)
HL*3*2*P~ (first carton associated with order level)
HL*4*3*I~ (item1 associated with first carton)
HL*5*2*T~ (first pallet associated with order level)
HL*6*5*I~ (item2 associated with first pallet)
HL*7*5*I~ (item3 associated with first pallet)

TD1 Carrier Details (Quantity and Weight) – SHIPMENT Level

Purpose: It is used to specify the transportation details related to commodity, weight, and quantity.

User Option: Optional

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
TD101	103	**Packaging Code** **PLT** Pallet **CTN** Carton	M	AN	3/5
TD102	80	**Lading Quantity** **Please Note:** Number of containers, as expressed in TD101.	M	N0	1/7
TD106	187	**Weigh Qualifier** **G** **Gross Weight**	O	ID	½
TD107	81	**Weight** Shipment Weight, in Pounds	C	R	1/8
TD108	355	**Unit or Basis for Measurement Code** **LB** as pounds	C	AN	2/2

Example:

TD1*PLT*1~

TD5 Carrier Details (Routing Sequence / Transit Time) – SHIPMENT Level

Purpose: It is used to specify the carrier and sequence of routing and provide transit time information.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
TD501	133	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement **O** Origin Carrier (Air, Motor, Ocean)	M	ID	1/2
TD502	66	**Identification Code Qualifier** **Please Note:** 1.. Standard Carrier Alpha Code (SCAC) 1.. Assigned by Seller or Seller's Agent **Note**: Only send a 91 qualifier in the TD502 if a SCAC code is unavailable.)	M	ID	1/2
TD503	67	**Identification Code** If a SCAC code is unavailable for a carrier, send a 91 qualifier in TD502 and the carrier's free-form name here in TD503.	M	AN	2/80

Example:

TD5*O*2*FEDX~

REF Reference ID – SHIPMENT Level

Purpose: It is used to specify either a bill of lading, tracking number, packing slip or Fry's assigned vendor number.

User Option: Conditional / Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
REF01	128	**Reference Identification Qualifier**	M	ID	2/3
		BM Bill of Lading			
		IA Fry's assigned vendor number			
		PK Packing Slip **(Please place it at Pallet / Box level.)**			
		CN Tracking number **(Please place it at Box or Pallet level.)**			
REF02	127	**Reference Identification**	M	AN	1/30

Please Note:
Fry's assigned vendor number is mandatory.
Packing Slip is optional.

A bill of lading number is specified if it is a freight shipment.
A tracking number is specified if it is shipped by UPS.

In the ASN, either a Bill of Lading number or tracking number should be provided.

Example:
REF*BM*BILLOFLADING_001~
REF*IA*999999999~
REF*CN*TRACKING_002~
REF*PK*PACKING_SLIP_003~

DTM Date/Time Reference–SHIPMENT Level

Purpose: It is used to specify pertinent ship dates and times.

User Option: Conditional

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
DTM01	374	**Date/Time Qualifier** **011** – Date Shipped, **068** – Scheduled Ship Date **067** – Scheduled Delivery Date	M	ID	3/3
DTM02	373	**Date** Expressed in "**CCYYMMDD**".	C	DT	8/8
DTM03	337	**Time** Expressed as HHMM (24 hours).	C	TM	4/8
DTM04	623	**Time Code**	O	ID	2/2

Code	Name
CT	Central Time
ET	Eastern Time
LT	Local Time
MT	Mountain Time
PT	Pacific Time

Please Note:
Only one piece of information (Date Shipped, Scheduled Ship Date, or Schedule Delivery Date) is required. It is an error if no information of any of the above values is provided. (You are encouraged to provide us as much information as possible.)

Example:
DTM*011*20001001*1600*ET~
DTM*068*20001001*1800*ET~
DTM*067*20001005*2000*ET~

FOB F.O.B. – Shipment Level

Purpose: It is used to specify shipment method of payment.

User Option: Optional

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
FOB01	146	**Shipment Method of Payment**	M	ID	2/2
		Code Name			
		CC Collect			
		CF Collect,Freight Credited Back to Customer			
		PC Prepaid but Charged to Customer			
		PP Prepaid (by Seller)			

Example:

FOB*PP~

N1 Name – Ship From – Shipment Level

Purpose: It is used to identify the name of the company that ships the product.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
N101	98	**Entity Identifier Code**	M	ID	2/3
		SF Ship From			
N102	93	**Name** The name of company shipping the products	C	AN	1/60

Example:
N1*SF*ABC Widgets~

N3 Street Address – Ship From – SHIPMENT Level

Purpose: It is used to specify the street address of the company that ships the product.

User Option: Conditional; it is used when N1 is present

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
N301	166	**Street Address Information of the company that ships the products.**	M	AN	1/55
N302	166	**Street Address Information** N302 is used only when the street address is longer than 55 characters and cannot fit in N301.	O	AN	1/55

Example:

N3*12122 West First Street~

N4 Geographic Location – Ship From – SHIPMENT Level

Purpose: It is used to specify the city, state, postal code and country code of the company that ships the product

User Option: Conditional; it is used when N3 is present.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
N401	19	**City Name**	M	AN	2/30
N402	156	**State or Province Code**	M	ID	2/2
N403	116	**Postal Code**	M	ID	3/15
N404	26	**Country Code** The element is optional	O	ID	2/3

Example:

N4*San Jose*CA*95121~

N1 Name – Ship To – Shipment Level

Purpose: It is used to identify the name of the company whom the product is shipped to.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
N101	**98**	**Entity Identifier Code**	M	ID	2/3
		ST Ship To			
N102	93	The name of company the products are shipped to.	C	AN	1/60
N103	66	**Identification Code Qualifier**	O		
		Note this element is **92**.			
N104	67	**Identification Code**	O		
		Note: This element is 3-digit number of Fry's store, eg 009 for San Jose store.			

Example:

N1*ST*FRY'S ELECTRONICS*92*026~

HL Hierarchical Level – ORDER Level

Purpose: It is used to indicate the start of the ORDER level.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number** **Please Note** Fry's Electronics allows only numeric data values in the HL01. This element is always be '**2**'.	M	AN	1/12
HL02	734	**Hierarchical Parent ID Number** **Please Note** This element is always be '1'..	M	AN	1/12
HL03	735	**Hierarchical Level Code** **O Order**	M	ID	1/2

PRF Purchase Order Reference--Order Level

Purpose: It is used to specify a purchase order number.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
PRF01	324	**Purchase Order Number** Identifying Purchase Order number assigned by Fry's Electronics	M	AN	1/22
PRF04	373	**Purchase Order Date** Fry's Electronics original purchase order date	M	DT	8/8

Example:
PRF*17507803~
PRF*17507803***20110805~

REF Reference ID – Order Level

Purpose: It is used to specify a packing slip.

User Option: Optional

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
REF01	128	**Reference Identification Qualifier**	M	ID	2/3
		PK Packing Slip			
REF02	127	**Reference Identification**	M	AN	1/30

Please Note:
It is required if the packing slip is present, but optional if it does not exist.

Example:
REF*PK*PACKING_SLIP_003~

HL Hierarchical Level- TARE Level

Purpose: It is used to indicate the start of the TARE / PALLET level.

User Option: Conditional; it is used when a tare is sent to Fry's.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01. This element is always '**3**' if used.	M	AN	1/12
HL02	734	**Hierarchical Parent ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01.	M	AN	1/12
HL03	735	**Hierarchical Level Code** **T Pallet/Tare**	M	ID	1/2

MAN Marks and Numbers – TARE / PALLET Level

Purpose: This segment is required to specify a SSCC-barcode for each pallet.

User Option: Conditional; it is used when the TARE-level exists.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
MAN01	88	**Marks and Numbers Qualifier** Always “GM”	M	ID	1/2
MAN02	87	**Marks and Numbers** A 20-digit long SSCC label	M	AN	1/48

Please Note:

The MAN segment is required for the Tare (Pallet) level.

Example:

MAN*GM*00100473620008821774~

REF Reference ID – TARE Level

Purpose: It is used to specify a tracking number.

User Option: Conditional / Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
REF01	128	**Reference Identification Qualifier**	M	ID	2/3
		CN Tracking number			
REF02	127	**Reference Identification**	M	AN	1/30

Please Note:
Though uncommon, the tracking number, if present for the pallet, should be specified.

Example:
REF*CN*TRACKING_002~

HL Hierarchical Level – CARTON Level

Purpose: It is used to indicate the start of the CARTON / PACKAGE level.

User Option: Conditional; it is used when a carton is sent to Fry's.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01.	M	AN	1/12
HL02	734	**Hierarchical Parent ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01	M	AN	1/12
HL03	735	**Hierarchical Level Code** **P Package**	M	ID	1/2

Example:

Detail ASN With UCC-128 Labeling for one PO at Carton Level:

HL*1**S~ (shipment)
HL*2*1*O~ (order)
HL*3*2*P~ (first carton linked to order level)
HL*4*3*I~ (item1 linked to first carton)
HL*5*2*P~ (second carton linked to order level)
HL*6*5*I~ (item1 linked to second carton)
HL*7*5*I~ (item2 linked to second carton)

MAN Mark and Number – CARTON Level

Purpose: This segment is required to specify a SSCC-barcode for each carton.

User Option: Conditional; it is used when CARTON-level exists.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
MAN01	88	**Marks and Numbers Qualifier** Always “GM”	M	ID	1/2
MAN02	87	**Marks and Numbers** A 20-digit long SSCC label	M	AN	1/48

Please Note:

The MAN segment is required for the Carton (Package) level.

Example:

MAN*GM*00100473620008821774~

REF Reference ID – Carton Level

Purpose: It is used to specify a tracking number.

User Option: Conditional / Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
REF01	128	**Reference Identification Qualifier**	M	ID	2/3
		CN Tracking number			
REF02	127	**Reference Identification**	M	AN	1/30

Please Note:
A tracking number, if present for the carton, should be specified.

Example:
REF*CN*TRACKING_002~

HL Hierarchical Level – SUB-BOX Level

Purpose: It is used to indicate the start of the SUB-BOX level.

User Option: Conditional; it is used when a carton is sent to Fry's.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
HL01	62 8	**Hierarchical ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01.	M	AN	1/12
HL02	734	**Hierarchical Parent ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01	M	AN	1/12
HL03	735	**Hierarchical Level Code** **P Package**	M	ID	1/2

Note:
The Carton segment (whose hierarchical level code is 'P') is regarded as a SUB-BOX when it is placed under another Carton segment.

There is no tracking number for this SUB-BOX level.

Example:
Detail ASN With UCC-128 Labeling for one PO at Carton Level:
HL*1**S~ (shipment)
HL*2*1*P~ (first carton linked to shipment level)
HL*3*2*O~ (order)
HL*4*3*P~ (first sub-box linked to order level)
HL*5*4*I~ (item1 linked to first sub-box)
HL*6*2*P~ (second sub-box linked to order level)
HL*7*6*I~ (item1 linked to second sub-box)
HL*8*6*I~ (item2 linked to second sub-box)

MAN Mark and Number – SUB-BOX Level

Purpose: This segment is required to a specify a SSCC-barcode for each sub-box.

User Option: Mandatory; it is used when SUB-BOX-level exists.

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
MAN01	88	**Marks and Numbers Qualifier** Always “GM”	M	ID	1/2
MAN02	87	**Marks and Numbers** A 20-digit long SSCC label	M	AN	1/48

Please Note:

The MAN segment is required for the Sub-box level.

Example:

MAN*GM*00100473620008821774~

HL Hierarchical Level – ITEM Level

Purpose: It is used to indicate the start of the ITEM level.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01.	M	AN	1/12
HL02	734	**Hierarchical Parent ID Number** **Please Note:** Fry's Electronics allows only numeric data values in the HL01.	M	AN	1/12
HL03	735	**Hierarchical Level Code** **Code** **Name** **I** Item	M	ID	1/12

LIN Item Identification – ITEM Level

Purpose: It is used to specify the identification data of an item.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
LIN01	350	**Assigned Identification** Shipment line item	O	AN	1/20
LIN02	235	**Product/Service ID Qualifier** **"VP"** - trading partner's vendor part#	M	ID	2/2
LIN03	234	**Product/Service ID** trading partner's vendor part#	M	AN	1/48
LIN04	235	**Product/Service ID Qualifier** **"UP"** - UPC	C	ID	2/2
LIN05	234	**Product/Service ID** U.P.C Consumer Package Code	C	AN	1/48
LIN06	235	**Product/Service ID Qualifier** **"CB"** - Buyer's Catalog #	C	ID	2/2
LIN07	234	**Product/Service ID** Fry's Electronics part #	C	AN	1/48

Please Note:

If an item included in the 856 is not shipped, do not include an LIN or SN1 segment for the item.

Always include UPC with UP qualifier

Example:

LIN*1*VP*463724511*UP*047362372451*CB*4041278~

SN1 Item Detail – ITEM Level

Purpose: It is used to specify the number of units shipped.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
SN102	382	**Number of Units Shipped**	M	R	1/10
SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2

Please Note:
EA Each

Example:

SN1**48*EA~

CTT Transaction Totals

Purpose: It is used to number of HL levels in the transaction set.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
CTT01	354	**Number of Line Items**	M	N0	1/6
		Please Note: The number of HL segments present in the transaction set			**Functional Identifier Code** M ID 2/2 Mandatory

Example:

CTT*5~

SE Transaction Set Trailer

Purpose: To indicate the end of the transaction set.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
SE01	96	**Number of Included Segments** This element should include the number of segments between the ST and SE, including the ST and SE.	M	N0	1/10
SE02	329	**Transaction Set Control Number** Same as ST02	M	AN	4/9

Example:

SE*31*0001~

GE Functional Group Trailer

Purpose: To indicate the end of the functional group.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
GE01	97	**Number of Transaction Sets Included** ie, the number of ST/SE pairs	M	N0	1/6
GE02	28	**Group Control Number** Same as GS08	M	N0	1/9

Example:

GE*1*1~

IEA Interchange Control Trailer

Purpose: To indicate the end of the interchange.

User Option: Mandatory

Element Summary:

Ref	ID	Element Name	Req	Type	Min/Max
IEA01	I16	**Number of Functional Groups Included**	M	N0	1/5
IEA02	I12	**Interchange Control Number** **Please Note:** This control number must match the control number in the ISA13	M	N0	9/9

Example:

IEA*1*000000001~