



Advance Ship Notice

(X12 856 Version 004010)

Implementation Guide

Revised August 26, 2010 Version 2.4

This implementation guide consists of an overall transaction set diagram, transaction set diagram by HL loop, and individual segment diagrams. This implementation guide is for informational purposes only.

Contact vtg@cornerstonebrands.com with questions and guidance in implementing this guide at the EDI Help Desk.

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Introduction

The purpose of this documentation is to provide a detailed description for the electronically transmitted Ship Notice/Manifest (856) Transaction Set to Chasing Fireflies trading partners. The Advance Shipping Notice provides Chasing Fireflies with a list of all items on the shipment as well as additional information pertaining to the shipment, such as carrier details, order information, product description, physical characteristics, and UCC-128 barcode information.

Chasing Fireflies requires an 856 for all shipments. The Ship Notice/Manifest must be transmitted in Version 4010 of the ANSI x12 standards. Chasing Fireflies implementation of the 856 allows Vendors to transmit both types of shipment data within the 856: Pick & Pack and Standard Pack. The Pick & Pack format is used when shipping different items (SKUs) within one package while the Standard Pack format is used when shipping the same item within multiple packages. Chasing Fireflies would like all vendors to use the Standard format if possible.

These two methods have distinct Hierarchical Structures. Each structure contains the same levels, i.e. Shipment, Order, Tare, Pack, and Item, and the usage of each segment will remain the same. The difference between the two will be in the order the HL segments will appear. Please refer to the diagrams on the following page.

Diagram of Pick & Pack Hierarchical Structure

The Pick and Pack Hierarchical Structure is used when the entire shipment will contain at least one package containing multiple items. The diagram below shows how a company may use a Pick & Pack shipment.

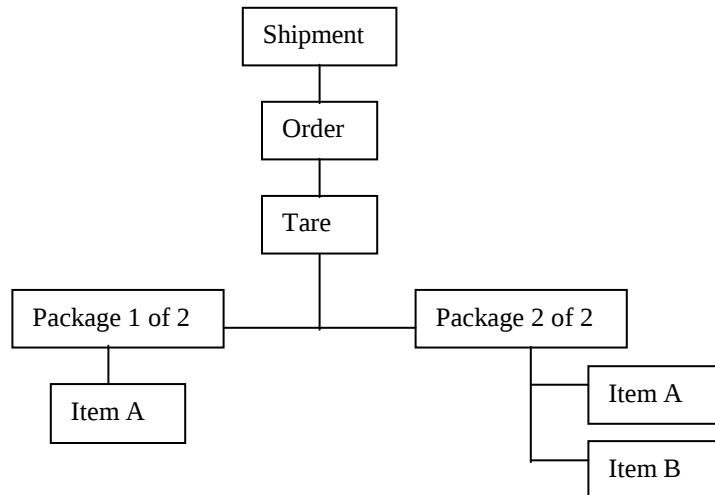
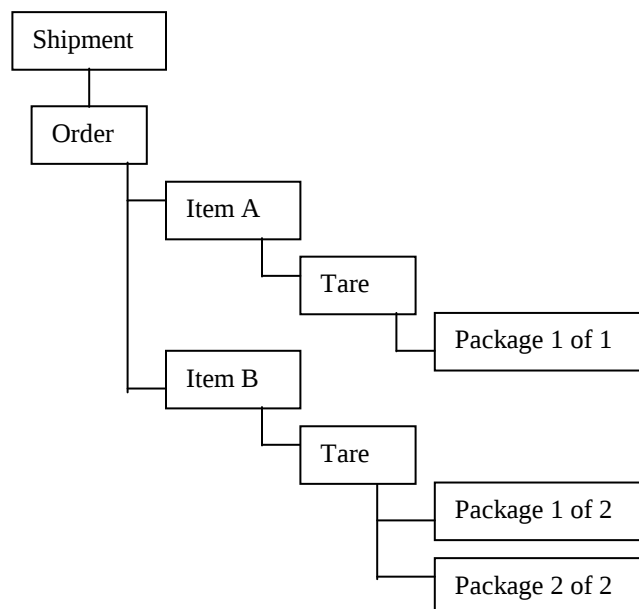


Diagram of Standard Hierarchical Structure

The Standard Hierarchical Structure is used when each package will contain only one item. The diagram below shows how a company may use a Standard Shipment.



Transaction Set Diagram

856 Ship Notice/Manifest – Advance Ship Notice

Envelope Information

Table 1

Seg ID	Name	Req Dsg	Max Use	Loop Rep
ISA	Interchange Control Header	M	1	
GS	Functional Group Header	M	1	
ST	Transaction Set Header	M	1	
BSN	Beginning Segment for Ship Notice	M	1	

Table 2

Seg ID	Name	Req Dsg	Max Use	Loop Rep
HL	Hierarchical Level (Shipment)	M	1	200000
LIN	Item Identification	M	1	
SN1	Item Detail (Shipment)	M	1	
PRF	Purchase Order Reference	M	1	
P04	Item Physical Details	M	1	
TD1	Carrier Details (Quantity and Weight)	M	1	
TD5	Carrier Details (Routing Sequence/Trans Time)	M	1	
TD3	Carrier Details (Equipment)	O	1	
REF	Reference Identification	M	1	
MAN	Marks and Numbers	M	1	
DTM	Date/Time Reference	M	2	
PAL	Pallet Information	O	1	
N1	Name	M	2	

Table 3

Seg ID	Name	Req Dsg	Max Use	Loop Rep
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

Transaction Set Diagram

(by HL loop)

856 Ship Notice/Manifest – Advance Ship Notice

Envelope Information

ISA Interchange Control Header	M
GS Functional Group Header	M

Table 1

Seg	Req	Max	Loop
ID Name	Dsg	Use	Rep
ST Transaction Set Header	M		
BSN Beginning Segment for Ship Notice	M		

Table 2

Seg	Req	Max	Loop
ID Name	Dsg	Use	Rep
HL Hierarchical Level (Shipment)	M	1	1
SN1 Item Detail (Shipment)	M	1	
TD1 Carrier Details (Quantity and Weight)	M	1	
TD5 Carrier Details (Routing Sequence/Trans Time)	M	1	
TD3 Carrier Details (Equipment)	O	1	
REF Reference Identification	M	1	
DTM Date/Time Reference	M	2	
N1 Name	M	2	
HL Hierarchical Level (Order)	M	1	200000
PRF Purchase Order Reference	M	1	

Standard Hierarchical Structure

HL Hierarchical Level (Item)	M	1	200000
LIN Item Identification	M	1	
SN1 Item Detail (Shipment)	M	1	
HL Hierarchical Level (Tare)	O	1	200000
MAN Marks and Numbers	O	1	
PAL Pallet Information	O	1	
HL Hierarchical Level (Packing)	M	1	200000
P04 Item Physical Details	M	1	
MAN Marks and Numbers	M	1	

Pick and Pack Hierarchical Structure

HL	Hierarchical Level (Tare)	0	1	200000
MAN	Marks and Number	0	1	
PAL	Pallet Information	0	1	
HL	Hierarchical Level (Packing)	M	1	200000
PO4	Item Physical Details	M	1	
MAN	Marks and Numbers	M	1	
HL	Hierarchical Level (Item)	M	1	200000
LIN	Item Identification	M	1	
SN1	Item Detail (Shipment)	M	1	

Table 3

Seg		Req	Max	Loop
ID	Name	Dsg	Use	Rep
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

SEGMENT DIAGRAMS

ISA Interchange Control Header

To start and identify an interchange of one or more functional groups and interchange-related control segments.

ID	Name	Attributes
01	I01 Authorization Info Qualifier	M ID 2/2
02	I02 Authorization Information	M AN 10/10
03	I03 Security Information Qualifier	M ID 2/2
04	I04 Security Information	M AN 10/10
05	I05 Interchange ID Qualifier	M ID 2/2
06	I06 Interchange Sender ID	M AN 15/15
07	I05 Interchange ID Qualifier	M ID 2/2
08	I07 Interchange Receiver ID	M AN 15/15
09	I08 Interchange Date	M DT 6/6
10	I09 Interchange Time	M TM 4/4
11	I10 Interchange Control Standards ID	M ID 1/1
12	I11 Interchange Control Version No.	M ID 5/5
13	I12 Interchange Control Number	M N 9/9
14	I13 Acknowledgment Requested	M ID 1/1
15	I14 Usage Indicator	M ID 1/1
16	I15 Component Separator	M 1/1

Notes:

- 01 - 00
- 02 - Blank
- 03 - 00
- 04 - Blank
- 05 - EDI Communications ID Qualifier
 - ZZ - Mutually Defined
 - 01 - D&B Number
 - 08 - UCC EDI Communications ID
 - 12 - Phone Number
- 06 - Supplier's EDI Communications ID
- 07 - ZZ - EDI Communications ID Qualifier
- 08 - TRAVELVN – Receiver's EDI Communications ID
- 09 - Date in YYMMDD format
- 10 - Time in HHMM format
- 11 - U - U.S. EDI Community of ASC X12, TDCC, and UCS
- 12 - 00400
- 13 - Unique Number Assigned by Sender
- 14 - 1 - Interchange Acknowledgment Requested
- 15 - T - Test (when testing)
P - Production (when in production)
- 16 - ">"

GS Functional Group Header

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

ID	Name	Attributes
01	479 Functional Identifier Code	M ID 2/2
02	142 Application Sender's Code	M AN 2/15
03	124 Application Receiver's Code	M AN 2/15
04	373 Date	M DT 8/8
05	337 Time	M TM 4/8
06	28 Group Control Number	M N0 1/9
07	455 Responsible Agency Code	M ID 1/2
08	480 Version/Release/Industry Identifier Code	M AN 1/12

Notes:

- 01 - 'SH' - Ship Notice
- 02 - Supplier's Code
- 03 - TRAVELVN
- 04 - Date in CCYYMMDD format
- 05 - Time in HHMM format
- 06 - Unique number assigned by sender
- 07 - X – ASC X12
- 08 - 004010

ST Transaction Set Header

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

ID	Name	Attributes
01	143 Transaction Set Identifier Code	M ID 3/3
02	329 Transaction Set Control Number	M AN 4/9

Notes:

- 01 - 856
- 02 - Control number assigned by sender

BSN Beginning Segment for Ship Notice

To transmit identifying numbers, dates, and other basic data relating to the transaction set.

ID	Name	Attributes
01	353 Transaction Set Purpose Code	M ID 2/2
02	396 Shipment Identification	M AN 2/30
03	373 Date	M DT 8/8
04	337 Time	M TM 4/8
05	1005 Hierarchical Structure Code	M ID 4/4

Notes:

- 01 - '00' ORIGINAL
- 02 - Shipment Id
- 03 - Transaction set date in CCYYMMDD format
- 04 - Transaction set time in HHMM format
- 05 - '0001' Shipment – Order – Tare – Pack – Item (Pick & Pack)
'0002' Shipment – Order – Item – Tare – Pack (Standard)

HL Hierarchical Level (Shipment)

To identify dependencies among and the content of hierarchically related groups of data segments.

ID	Name	Attributes
01	628 Hierarchical ID Number	M AN 1/12
03	735 Hierarchical Level Code	M ID 1/2

Notes:

- 01 - '1' First HL
- 03 - 'S' Shipment

SN1 Item Detail

To specify line-item detail relative to shipment.

ID	Name	Attributes
02	382 Number of Units Shipped	M R 1/10
03	355 Unit or Basis for Measurement Code	M ID 2/2

Notes:

- 02 - Total Number of Items Shipped
- 03 - 'EA' Each

TD1 Carrier Details (Quantity and Weight)

To specify the transportation details relative to commodity, weight, and quantity.

ID	Name	Attributes
01	103 Packaging Code	M AN 3/5
02	80 Lading Quantity	M N0 1/7
06	187 Weight Qualifier	O ID 1/2
07	81 Weight	O R 1/10
08	355 Unit or Basis for Measurement Code	C ID 2/2
09	183 Volume	O R 1/8
10	355 Unit or Basis for Measurement Code	C ID 2/2

Notes:

- 01 - 'CTN25' Corrugated or Solid Carton
- 02 - Number of Cases Shipped
- 06 - 'G' Gross Weight
- 07 - Gross weight of Shipment
- 08 - 'LB' Pound
- 09 - Volume of Shipment
- 10 - 'CF' Cubic Feet

Syntax Notes:

- 01 - If TD01 is present, then TD02 is required.
- 02 - If TD06 is present, then TD07 is required.
- 03 - If TD07 or TD08 is present, then the other is required.
- 04 - If TD09 or TD10 is present, then the other is required.

TD5 Carrier Details (Routing Sequence)

To specify the carrier and sequence of routing and provide transit time information.

ID	Name	Attributes
01	133 Routing Sequence Code	M ID 1/2
02	66 Identification Code Qualifier	M ID 1/2
03	67 Identification Code	M AN 2/80
04	91 Transportation Method	O ID 1/2
06	368 Shipment/Order Status Code	M ID 2/2

Notes:

- 01 - 'B' Origin/Delivery carrier
- 02 - '2' SCAC
- 03 - Carrier SCAC
- 04 - 'M' Motor, 'U' Private Parcel Service
- 06 - 'CC' Shipment Complete, 'PR' Partial Shipment

TD3 Carrier Details (EQUIPMENT)

To specify transportation details relating to the equipment used by the carrier.

ID	Name	Attributes
01	40 Equipment Description Code	0 ID 2/2
02	206 Equipment Initial	0 AN 1/4
03	207 Equipment Number	0 AN 1/10

Notes:

This segment is only required for full truckload shipments.

- 01 - 'TL' TRAILER
- 02 - Prefix or alphabetic part of an equipment identifying number.
- 03 - Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment is preferred).

REF Reference Identification

To specify identifying information.

ID	Name	Attributes
01	128 Reference Number Qualifier	M ID 2/3
02	127 Reference Identification	M AN 1/30

Notes:

- 01 - 'BM' – Bill of Lading Number; '98' – Container Specification Number; 'AW' – Air Waybill Number
Refer to Vendor Compliance Manual / Routing Guide to determine the correct Ship Method
- 02 - Bill of Lading, Container Number, or Air Waybill dependent on Shipment Method / Type

DTM Date/Time Reference

To specify pertinent dates and times.

ID	Name	Attributes
01	374 Date/Time Qualifier	M ID 3/3
02	373 Date	M DT 8/8
03	337 Time	0 TM 4/8

Notes:

- 01 - '011' Ship Date
- 02 - Date of Shipment
- 03 - Time of Shipment

DTM Date/Time Reference

To specify pertinent dates and times.

ID	Name	Attributes
01	374 Date/Time Qualifier	M ID 3/3
02	373 Date	M DT 8/8
03	337 Time	O TM 4/8

Notes:

- 01 - '017' Estimated Delivery Date
- 02 - Estimated Date of Delivery
- 03 - Estimated Time of Delivery

N1 Name

To identify a party by type of organization, name, and code.

ID	Name	Attributes
01	98 Entity Identifier Code	M ID 2/3
02	93 Name	M AN 1/60
03	66 Identification Code Qualifier	M ID 1/2
04	67 Identification Code	M AN 2/80

Notes:

- 01 - 'SF' Ship From
- 02 - Shipper's Warehouse Name.
- 03 - '92' Assigned by Receiver.
- 04 - Vendor Code.

N1 Name

To identify a party by type of organization, name, and code.

ID	Name	Attributes
01	98 Entity Identifier Code	M ID 2/3
02	93 Name	M AN 1/60
03	66 Identification Code Qualifier	M ID 1/2
04	67 Identification Code	M AN 2/80

Notes:

- 01 - 'ST' Ship To
- 02 - '1FG' Frontgate
- 03 - '92' Assigned by Receiver.
- 04 - '01' Warehouse Code.

HL Hierarchical Level (Order)

To identify dependencies among and the content of hierarchically related groups of data segments.

ID	Name	Attributes
01	628 Hierarchical ID Number	M AN 1/12
02	734 Hierarchical Parent ID Number	M AN 1/12
03	735 Hierarchical Level Code	M ID 1/2

Notes:

03 - 'O' Order

PRF Purchase Order Reference

To provide reference to a specific purchase order.

ID	Name	Attributes
01	324 Purchase Order Number	M AN 1/22
04	373 Purchase Order Date	M DT 8/8

Notes:

01 - Purchase Order Number

02 - Purchase Order Date

HL Hierarchical Level (Tare)

To identify dependencies among and the content of hierarchically related groups of data segments.

ID	Name	Attributes
01	628 Hierarchical ID Number	O AN 1/12
02	734 Hierarchical Parent ID Number	O AN 1/12
03	735 Hierarchical Level Code	O ID 1/2

Notes:

03 - 'T' Tare

MAN Marks and Numbers

To indicate identifying marks and numbers for shipping containers.

ID	Name	Attributes
01	88 Marks and Numbers Qualifier	0 ID 1/2
02	87 Marks and Numbers	0 AN 1/48
03	87 Marks and Numbers	0 AN 1/48

Notes:

- 01 - 'GM' UCC-128 SSCC
- 02 - UCC-128 Bar Code Number
- 03 - UCC-128 Bar Code Number. Use when sequenced UCC-128 numbers identify pallets containing identical items. Element 02 is the first number in the sequence and element 03 is the last number in the sequence.

PAL Pallet Information

To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet.

ID	Name	Attributes
04	356 Pack	0 N0 1/6

Notes:

- 04 - Number of Packs on the Pallet.

HL Hierarchical Level (Packing)

To identify dependencies among and the content of hierarchically related groups of data segments.

ID	Name	Attributes
01	628 Hierarchical ID Number	M AN 1/12
02	734 Hierarchical Parent ID Number	M AN 1/12
03	735 Hierarchical Level Code	M ID 1/2

Notes:

- 03 - 'P' Pack

PO4 Item Physical Details

To specify the physical qualities, packaging, weights, and dimensions relating to the item.

ID	Name	Attributes		
01	356 Pack	M	N0	1/6
06	384 Gross Weight per Pack	0	R	1/9
07	355 Unit or Basis for Measurement Code	C	ID	2/2
08	385 Gross Volume per Pack	0	R	1/9
09	355 Unit or Basis for Measurement Code	C	ID	2/2

Notes:

- 01 - Number of items in each case.
- 06 - Gross weight per pack
- 07 - 'LB' Pound
- 08 - Gross volume per pack
- 09 - 'CF' Cubic Feet

Syntax Notes:

- 01 - If PO406 or PO407 is present, then the other is required.
- 02 - If PO408 or PO409 is present, then the other is required.

MAN Marks and Numbers

To indicate identifying marks and numbers for shipping containers.

ID	Name	Attributes		
01	88 Marks and Numbers Qualifier	M	ID	1/2
02	87 Marks and Numbers	M	AN	1/48
03	87 Marks and Numbers	0	AN	1/48

Notes:

- 01 - 'GM' UCC-128 SSCC
- 02 - UCC-128 Bar Code Number
- 03 - UCC-128 Bar Code Number. Use when sequenced UCC-128 numbers identify cases containing identical items. Element 02 is the first number in the sequence and element 03 is the last number in the sequence.

HL Hierarchical Level (Item)

To identify dependencies among and the content of hierarchically related groups of data segments.

ID	Name	Attributes
01	628 Hierarchical ID Number	M AN 1/12
02	734 Hierarchical Parent ID Number	M AN 1/12
03	735 Hierarchical Level Code	M ID 1/2

Notes:

03 - 'I' Item

LIN Item Identification

To specify basic item identification data.

ID	Name	Attributes
01	350 Assigned ID	M AN 1/20
02	235 Product/Service ID Qualifier	M ID 2/2
03	234 Product/Service	M AN 1/48
04	235 Product/Service ID Qualifier	O ID 2/2
05	234 Product/Service	O AN 1/48

Notes:

01 - Assigned (Line Item) ID (taken from the P0101 in the 850)
02 - 'BP' Buyers Part Number
03 - Buyers Part Number
04 - 'SN' Serial Number
05 - Serial Number

Syntax Notes:

01 - If LIN04 exist then there must be a LIN05.

SN1 Item Detail

To specify line-item detail relative to shipment.

ID	Name	Attributes
02	382 Number of Units Shipped	M R 1/10
03	355 Unit or Basis for Measurement Code	M ID 2/2

Notes:

02 - Number of Items Shipped
03 - 'CA' Cases or 'EA' Each

CTT Transaction Totals

To transmit a hash total for a specific element in the transaction set.

ID	Name	Attributes
01	354 Number of Line Items	M N0 1/6

Notes:

- 01 - Total number of line items in the transaction set.

SE Transaction Set Trailer

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning ST and ending SE segments).

ID	Name	Attributes
01	96 Number of Included Segments	M N0 1/10
02	329 Transaction Set Control Number	M AN 4/9

Notes:

- 01 - Total number of segments included in a transaction set including ST and SE segments.
02 - Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.

GE Functional Group Trailer

To indicate the end of a functional group and to provide control information.

ID	Name	Attributes
01	97 Number of Transaction Sets Included	M N0 1/6
03	28 Group Control Number	M N0 1/9

Notes:

- 01 - Total number of transaction sets included in the functional group or interchange (transmission) group by the trailer containing this data element.
02 - Assigned number originated and maintained by the sender.

IEA Interchange Control Trailer

To define the end of an interchange of zero or more functional groups and interchange-related control segments.

ID	Name	Attributes
01	116 Number of Included Functional Groups	M N0 1/5
03	112 Interchange Control Number	M N 9/9

Notes:

- 01 - A count of the number functional groups included in a transmission.
- 02 - This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID, it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.