856 Advanced Ship Notice

X12/V4010/856 : 856 Advanced Ship Notice

Version: 1.4

Company:	**White Cap Maintenance**
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- Version 1.2 Updated the Notes in the LIN segment to use the right Qualifiers - Mohsin Menon - 2/12/2025
- Version 1.3 Added Shipping Label to Page 27 and updated 856 Example Page 29 - Mohsin Menon - 2/19/2025
- Version 1.4 Line level REF segment, PO Revision Number made mandatory page 23 - Mohsin Menon - 4/3/2025

856 Ship Notice/Manifest

Functional Group=SH

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	GS	Functional Group Header	M	1			Must use
0100	ST	Transaction Set Header	M	1			Must use
0200	BSN	Beginning Segment for Ship Notice	M	1			Must use
LOOP ID - HL					**200000**	**C1/0100L**	
0200	HL	Hierarchical Level	M	1		C1/0200	Must use
1000	TD1	Carrier Details (Quantity and Weight)	M	20			Must use
1100	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12			Used
1700	REF	Reference Information	M	>1			Must use
3600	DTM	Date/Time Reference	M	10			Must use
3610	FOB	F.O.B. Related Instructions	O	20			Used
LOOP ID - N1					**200**		
4100	N1	Party Identification	M	1			Must use
4300	N3	Party Location	M	2			Must use
4400	N4	Geographic Location	M	1			Must use
LOOP ID - HL					**1**		
0100	HL	Hierarchical Level	M	1		C1/0100	Must use
0200	PRF	Purchase Order Reference	M	1			Must use
LOOP ID - HL					**1**		
0100	HL	Hierarchical Level	M	1		C1/0100	Must use
0200	MAN	Marks and Numbers Information	M	>1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					**1**		
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0400	LIN	Item Identification	M	1			Must use
0300	SN1	Item Detail (Shipment)	M	1			Must use
0200	REF	Reference Information	M	>1			Must Use

Trailer:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					**1**		
0100	CTT	Transaction Totals	M	1		C3/0100	Must use

GS Functional Group Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 0

User Option (Usage): Must use
Purpose: To indicate the beginning of a functional group and to provide control information

Example Data:

*GS*SH*AR000015704*Whitecap001*20120412*1534*3501*X*004010~*

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **CodeList Summary** (Total Codes: 316, Included: 1) Code: 856 — Name: Ship Notice/Manifest	M	ID	3/3	Must use
ST02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Example Data:

*ST*856*0001~*

BSN Beginning Segment for Ship Notice

Pos: 0200 **Max: 1**
Heading - Mandatory
Loop: N/A **Elements: 4**

User Option (Usage): Must use
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN01	353	**Transaction Set Purpose Code** **Description:** Code identifying purpose of transaction set **CodeList Summary** (Total Codes: 66, Included: 1) Code: 00 Original; 01 Cancellation	M	ID	2/2	Must use
BSN02	396	**Shipment Identification** **Description:** A unique control number assigned by the original shipper to identify a specific shipment. Pick Slip Number	M	AN	2/16	Must use
BSN03	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
BSN04	337	**Time** **Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

Example Data:

*BSN*00*ASN00001*20100604*1352*

WHITE CAP Comments:

1. Only one Shipment is allowed per 856 ASN.
2. Only one Purchase Order is allowed per 856 ASN.

HL Hierarchical Level

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number** **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL03	735	**Hierarchical Level Code** **Description:** Code defining the characteristic of a level in a hierarchical structure **CodeList Summary** (Total Codes: 250, Included: 1) Code: S — Name: Shipment	M	ID	1/2	Must use

Example Data:

*HL*1**S*

White Cap Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

TD1 Carrier Details (Quantity and Weight)

Pos: 1000 **Max: 20**
Heading - Mandatory
Loop: HL **Elements: 2**

User Option (Usage): Must use
Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code** **Description:** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required **CodeList Summary** (Total Codes: 155, Included: 3) Code / Name PCS Pieces CTN Cartons PLT Pallets	X	AN	3/5	Optional
TD102	80	**Lading Quantity** **Description:** Number of units (pieces) of the lading commodity	X	N0	1/7	Must use
TD107	81	**Weight** **Description:** Total Gross Weight of the lading commodity	X	N0	1/10	Must Use
TD108	355	**Unit or Basis for Measurement Code** **Description:** Total Gross Weight Unit of Measure	X	N0	1/10	Optional

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.

Example Data:

*TD1*PCS*4*****4445*LB*

White Cap Comments:

1. ONLY codes used in the TD101 is PCS(Pieces), CTN (Cartons)or PLT(Pallet)

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1100	Max: 12
Heading - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use
Purpose: To specify the carrier and sequence of routing and provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **CodeList Summary** (Total Codes: 240, Included: 1) Code: 2 — Name: Standard Carrier Alpha Code (SCAC)	X	ID	1/2	Must use
TD503	67	**Identification Code** **Description:** Code identifying a party or other code	X	AN	2/80	Must use
TD505	387	**Routing** **Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Must use

Syntax Rules:

1. TD505 is requested.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Example Data:

*TD5**2*UPSN**UPS*

White Cap Comments:

1. When specifying a routing sequenceto be used for the shipment movement in lieu of specifying each carrier within the movement, use TD503to identify the party responsible for defining the routing sequence, and use TD505 to identify the actual routing sequence, specified by the party identified in TD503.

Examples of commonly used carrier and their corresponding SCAC codes

1. *YFSY - Yellow Transportation- A Less than truckload(LTL) carrier*
2. *RDWY -Roadway Express- A Less than truckload(LTL) carrier*
3. *UPSN, UPSS, UPSC, UPSZ -United Parcel Service (UPS) - A package delivery company*
4. *USPS - United States Postal Service*
5. *ABFS - ABF Freight System Inc. - A Less than truckload(LTL) carrier*
6. *FDEN - FedEx Express*
7. *FDEG - FedEx Ground - A package delivery company*
8. *FDCC - FedEx Custom Critical*
9. *FEXF - FedEx Freight*
10. *FXFE - FedEx LTL Freight East*
11. *FXFW - FedEx LTL Freight West (formerly VIKN - Viking)*
12. *FXNL - FedEx Freight National (formerly Watkins)*
13. *MAEU - Maersk Line*
14. *VNDR – Vendor Own Truck*

REF Reference Information

Pos: 1700 **Max: >1**
Heading - Mandatory
Loop: HL **Elements: 2**

User Option (Usage): Must use
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **CodeList Summary** (Total Codes: 1703, Included: 4) Code / Name: BM Bill of Lading Number WY Way Bill Number CN Freight Bill Number IA Supplier Vendor Number	M	ID	2/3	Must use
REF02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/50	Must use

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

WHITE CAP Comments:

White Cap assigned supplier code that was sent in the 850 Purchase Order, REF segment with a qualifier of "IA" in REF01 is Mandatory. Shipment Bill of Lading Number, REF segment with a qualifier of "BM" in REF01 is Optional.
Shipment Way Bill Number, REF segment with a qualifier of "WY" in REF01 is Optional.
Shipment Freight Bill Number, REF segment with a qualifier of "CN" in REF01 is Optional.

DTM Date/Time Reference

Pos: 3600 **Max: 10**
Heading - Mandatory
Loop: HL **Elements: 2**

User Option (Usage): Must use
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time **CodeList Summary** (Total Codes: 1277, Included: 1) Code / Name 011 Shipped 017 Expected Delivery	M	ID	3/3	Must use
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	DT	8/8	Must use

Example Data:

*DTM*011*20100604*

White Cap Comments:

DTM11 is required is the date the product was shipped by the supplier.
DTM17 is requested is the Expected Delivery Date

FOB F.O.B. Related Instructions

Pos: 3610	Max: 1
Heading - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	**146**	**Shipment Method of Payment** Code identifying payment terms for transportation charges *CC - Collect* *Buyer selects Collect - Buyer pays Freight* *DF - Defined by Buyer and Seller* *Buyer selects TBD - To be determined* *PC - Prepaid but Charged to Customer* *Buyer selects Prepaid and Add - Vendor pays freight and invoices buyer* *PP - Prepaid (by Seller)* *Buyer selects Prepaid - Vendor pays freight* *PU - Pickup* *Buyer selects Will Call - Buyer picks up freight* *TP - Third Party Pay* *Buyer selects 3RD Party - 3RD Party*	M	ID	2/2	Must Use
FOB02	**309**	**Location Qualifier** Code identifying type of location *DE - Destination (Shipping)* *OR - Origin (Shipping Point)*	M	ID	2/2	Used

NOTES:

01	FOB01 indicates which party will pay the carrier.
02	FOB02 is the code specifying transportation responsibility location.

N1 Party Identification

Pos: 4100	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use
Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual Code / Name SF Ship From OB Ordered By VN Vendor ST Ship To	M	ID	2/3	Must use
	93	**Name** **Description:** Free-form name SF - Ship From Name OB – White Cap Location Name VN – Vendor Name ST - Ship To	X	AN	1/60	Must use
	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **CodeList Summary** (Total Codes: 240, Included: 1) Code / Name 6 Whitecap Plant Code Qualifier 92 Assigned by Buyer or Buyer's Agent	X	ID	1/2	Used
	67	**Identification Code** **Description:** Code identifying a party or other code	X	AN	2/80	Used

Example Data:

*White Cap Distribution Center: N1*OB*White Cap Location Name*6*777~*
*N1*ST*White Cap Location Name*6*777~*
*Drop Ship: N1*ST*Name of Customer~*

White Cap Comments:

N103 and N104 is required if you are shipping to a White Cap Distribution Center

NOTES:

01	The N1*ST is preferred and will indicate the ship to address for the entire order, this will either be a White Cap Location or if a Direct Ship, it will be the customer address.
01	The use of N1*OB is mandatory. This must include the N103 and N104 (White Cap Location number as sent on the Purchase Order in the N1*OB segment). This is the information that must be returned on 856.
01	The use of N1*VN or N1*SF is mandatory. This must include the N103 and N104 (Vendor Purchasing Site MUST be returned on the 856).
02	At least one of the N102 or N103 is required.
03	If either N103 or N104 is present, then the other is required.
03	The N103 will only be sent if the address is a White Cap location.
04	The N104 will only be sent if the address is a White Cap location.

N3 Party Location

Pos: 4300	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use
Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use

Example Data:

*N3*10650 Washington St*

N4 Geographic Location

Pos: 4400	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name** **Description:** Free-form text for city name	M	AN	2/30	Must use
N402	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Must use
N403	116	**Postal Code** **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M	ID	3/15	Must use
N404	26	**Country Code** **Description:** Code identifying the country	M	ID	2/3	Must use

Comments:

1. N402 is required only if city name (N401) is in the U.S. or Canada.

Example Data:

*N4*Pembroke Pines*FL*330253500*USA*

White Cap Comments:

HL Hierarchical Level

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number** **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number** **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Must use
HL03	735	**Hierarchical Level Code** **Description:** Code defining the characteristic of a level in a hierarchical structure **CodeList Summary** (Total Codes: 250, Included: 1) Code: O — Name: Order	M	ID	1/2	Must use

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

Example Data:

*HL*2*1*O*

White Cap Comments:

Only one PO allowed on the same shipment.

PRF Purchase Order Reference

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: HL	Elements: 1

User Option (Usage): Must use
Purpose: To provide reference to a specific purchase order

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	324	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use

Example Data:

*PRF*4700018081*

White Cap Comments:

This is the original White Cap PO number sent on the 850.

HL Hierarchical Level

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number** **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number** **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Must use
HL03	735	**Hierarchical Level Code** **Description:** Code defining the characteristic of a level in a hierarchical structure **CodeList Summary** (Total Codes: 250, Included: 1) Code: P — Name: Pack	M	ID	1/2	Must use

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

Example Data:

*HL*3*2*P*

White Cap Comments:

For each package sent in the shipment that has its own tracking number White Cap requires a HL Pack loop. E.g. If 2 items are packed in 2 cases then 2 HL Pack loops will be required. Whereas if 10 items are packed in 1 case then only 1 HL Pack loop is required.

MAN Marks and Numbers Information

Pos: 0200 **Max: >1**
Heading - Mandatory
Loop: HL **Elements: 2**

User Option (Usage): Must use
Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier** **Description:** Code specifying the application or source of Marks and Numbers (87) **CodeList Summary** (Total Codes: 21, Included: 1) Code: Name CP: Carrier-Assigned Package ID Number GM: SSCC-18 and Application Identifier	M	ID	1/2	Must use
MAN02	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment **NOTE**: White Cap only uses 20 characters	M	AN	1/48	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN04	88	**Marks and Numbers Qualifier** **Description:** Code specifying the application or source of Marks and Numbers (87) **CodeList Summary** (Total Codes: 21, Included: 1) Code: Name CP: Carrier-Assigned Package ID Number UC: U.P.C./EAN Shipping Container Code (SCC-14)	M	ID	1/2	Must use
MAN05	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment **NOTE**: White Cap only uses 20 characters	M	AN	1/48	Must use

Semantics:

1. MAN01/MAN02 may be used to identify two different marks and numbers assigned to the same physical container.
2. When MAN01 = GM. MAN04 will always be used with Qualifier UC or CP

Example Data:

*MAN*GM*22222222222**UC*333333333333*

White Cap Comments:

As far as White Cap is concerned it is the identification number for the package and what # you provide in this field, would depen d on the shipment type. This also would be considered the tracking number.

If it is a small-package shipment such as UPS or FEDEX, then the assigned number would be considered the "carrier assigned reference number" and potentially would look like: 1Z1223344556677889.

However, for TL and LTL it would be the UCC-128 #.

As for White Cap Labels, please see page 27 below

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number** **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number** **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Must use
HL03	735	**Hierarchical Level Code** **Description:** Code defining the characteristic of a level in a hierarchical structure **CodeList Summary** (Total Codes: 250, Included: 1) Code: I — Name: Item	M	ID	1/2	Must use

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

Example Data:

*HL*4*3*I*

LIN Item Identification

Pos: 0400	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 7

User Option (Usage): Must use
Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Must use
LIN02	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **CodeList Summary** (Total Codes: 519, Included: 1) Code: VN — Name: Vendor's (Seller's) Part Number	M	ID	2/2	Must use
LIN03	234	**Product/Service ID** **Description:** Identifying number for a product or service	M	AN	1/48	Must use
LIN04	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **CodeList Summary** (Total Codes: 519, Included: 1) Code: IN — Name: Whitecap Item Number	M	ID	2/2	Must use
LIN05	234	**Product/Service ID** **Description:** Identifying number for a product or service	X	AN	1/48	Must use
LIN06	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **CodeList Summary** (Total Codes: 519, Included: 1) Code: UP — Name: UPC Code	X	ID	2/2	Optional
LIN07	234	**Product/Service ID** **Description:** Identifying number for a product or service	M	AN	1/48	Optional

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification. White Cap Line Number sent on the Purchase Order

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN07 provide for different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Example Data:

*LIN*1*VN*vendor Number*IN*White Cap Item Number*UP*UPC Code*

White Cap Comments:

LIN01 is the line item identification and must be the same as the corresponding item sent in the 850 PO101.

SN1 Item Detail (Shipment)

Pos: 0300	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use
Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	**Assignment Identification**	O/Z	AN	1/20	Used
SN102	382	**Number of Units Shipped** **Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use

CodeList Summary (Total Codes: 811, Included: 18)

Code	Name
BA	Bale
BG	Bag
BO	Bottle
BX	Box
CS	Cassette
CT	Carton
DI	Dispenser
DZ	Dozen
EA	Each
FT	Foot
IN	Inch
KT	Kit
PK	Package
PR	Pair
RL	Roll
SF	Square Foot
TB	Tube
VI	Vial

Semantics:

1. SN101 is the ship notice line-item identification.

Comments:

1. SN103 defines the unit of measurement for SN102.

Example Data:

*SN1*1*10*EA*

White Cap Comments:

It is expected you will provide the same UOM code found in the original PO.

REF Reference Information

Pos: 0200	Max: >1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must Use

NOTE: Used for Serialized Parts Only

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **CodeList Summary** (Total Codes: 1703, Included: 1) Code / Name EQ Equipment Number LT Lot Number PP PO Revision Number	M	ID	2/3	Must use
REF02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/50	Must use

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Example Data:

*REF*EQ*23654*
*REF*LT*1*
*REF*PP*0*

White Cap Comments:

Equipment Number is referring to the Truck Number is preferred
Lot Number refers to the Lot is preferred
PO Revision Number is Mandatory

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items** **Description:** Total number of line items in the transaction set (HL Loops)	M	N0	1/6	Must use
CTT02	347	**Hash Total** **Description:** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed ---------- 1855 Hash Total	M	R	1/10	Must use

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Example Data:

*CTT*10*100*

White Cap Comments:

This segment is intended to provide hash totals to validate transaction completeness and correctness. CTT01 is the sum / count of all HL Item Loop.

SE Transaction Set Trailer

Pos: 0200	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** **Description:** Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Comments:

1. SE is the last segment of each transaction set.

Example Data:

*SE*47*0001~*

GE Functional Group Trailer

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Example Data:

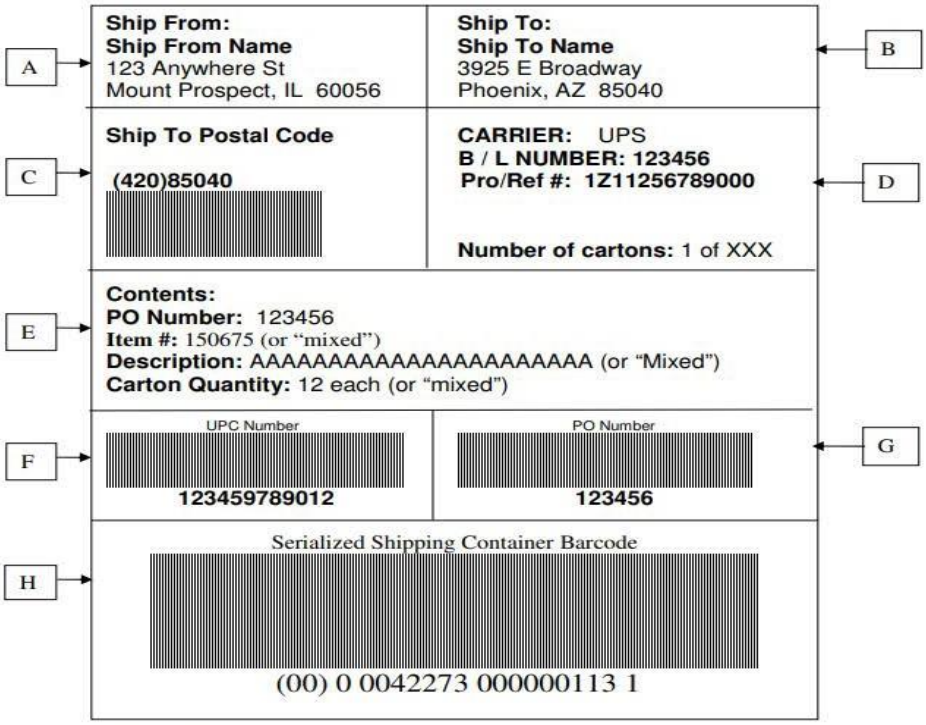
*GE*1*3501~*

General Label and SSCC-18/UCC-128 Information

- When there are multiple pallets shipped for the same PO or PO line, there should be one ASN sent that contains multiple SSCC/shipment numbers, each with its own pallet label on the physical pallet itself
- For items shipped on a pallet, the label should be placed on the outside of the pallet and the SSCC # for the label should be tied to all items on that pallet.
- For single cartons shipped via parcel there should be a label placed on the carton, with the SSCC# tied to that single item.

SSCC-18 / UCC-128 Carton Label

***Illustration not to scale**
Actual size = 4"x6"



ZONE	CONTENT
A	Vendors ship from name and address (10 to 12 pt font)
B	Ship to name and address (10 to 12 pt font)
C	Ship To postal code and barcode (10 to 16 pt font)
D	Shipment Information (Carrier, B/L #, Pro or Reference #) (10 to 16 pt font) Carton Tally information (Box xx of yyy)
E	Carton Contents: (PO#, Regis SKU , Item Description, Carton pieces count) (10 to 16 pt font)
F	UPC # and Barcode, Readable UPC # (10 to 12 pt font)
G	Readable PO # and Barcode (10 to 12 pt font)
H	UCC-128 Serial Shipping Container Code (SSCC-18)

Appendix A:

Shipping Instructions:

1. The 856 ASN is expected as soon as the shipment is complete. If the product is on the dock and all the details (tracking and Packing detail) are available then the 856 can be sent to White Cap.

-The shipped date should still reflect the actual date the shipment will be shipped. (A future date is acceptable.)

-The White Cap system sends requested shipped date (based on transit time / projection) in the EDI 850. All PO's are expected to ship ASAP regardless of the requested ship date.

***You do not send an 856 ASN until the carrier has provided you the ship information. Then you send the data via electronic in the 856 to White Cap so when the product arrives at the warehouse, the people on the dock who take the product off the truck can use the # on the package to match up with the ASN in the system and automatically receive the entire product into their system at once. It is your responsibility to work with your shipping folks to attain the needed package information to populate the ASN appropriately.*

2. You can ONLY have (1) Shipment per ASN

3. There is ONLY one Bill of Lading per ASN

4. You can have ONLY one PO in an ASN.

5. Multiple items can be packed in each Carton (HL Pack loop with HL items as children)

6. ONLY one PO can be packed in each carton.

7. The PO line items can be split into multiple packages.

8. For the White Cap ASN implementation pallets are transparent. For pallet shipments, only include the Pack HL loop (with a package ID) with the items in each pack. Ignore the pallet level.

9. Each PO has to be invoiced individually.

10. Only one vendor number per ASN.

A shipment can contain ONLY one Order, the order can contain multiple packs and a package can contain multiple item types and multiple orders.

**The MAN segment carries the number assigned to the package (could be multiple packages in a shipment).*

**The TD1 segment contains the count of HL*P count (The lading quantity is the # of Packages the carrier is supposed to deliver.)*

**The CTT*01 is the count of line items*

- Remember that the package number could be assigned by either the carrier or the shipper depending on the freight type.

Appendix B:

EXAMPLE:

ISA*00* *00* *01*Supplier ID *01*White Cap ID *250213*0106*U*00401*000059091*0*P*^~
GS*SH*Supplier ID*White Cap ID*20250213*0106*978*X*004010~
ST*856*9780001~
BSN*00*1122334455*20250213*0106~
HL*1**S~
TD1*CTN*6****G*17*LB~
TD5**2*UPS**UNITED PARCEL SERVICE~
REF*IA*Vendor Number~
REF*BM*162A1921764P~
REF*CN*1Z5237X303012104XX~
DTM*011*20250213~
N1*OB*WHITE CAP 0777-WAXAHACHIE*6*777~
N3*2265 N TOWN BLVD~
N4*WAXAHACHIE*TX*75165*US~
N1*SF*Northlake DC~
N3*8601 E. Sam Lee Lane~
N4*Northlake*TX*76262*US~
HL*2*1*O~
PRF*7824782~
HL*3*2*P~
MAN*CP*1Z5237X30301210412**CP*00000288760384301747~
HL*4*3*I~
LIN*2*VN*DCF860B*IN*324DCF860B*UP*885911817639~
SN1*2*1*EA~
REF*PP*0~
HL*5*2*P~
MAN*CP*1Z5237X30301210421**CP*00000288760384301754~
HL*6*5*I~
LIN*2*VN*DCF860B*IN*324DCF860B*UP*885911817639~
SN1*2*1*EA~
REF*PP*0~
HL*7*2*P~
MAN*CP*1Z5237X30301210430**CP*00000288760384301761~
HL*8*7*I~
LIN*2*VN*DCF860B*IN*324DCF860B*UP*885911817639~
SN1*2*1*EA~
REF*PP*0~
HL*9*2*P~
MAN*CP*1Z5237X30301210449**CP*00000288760384301778~
HL*10*9*I~
LIN*2*VN*DCF860B*IN*324DCF860B*UP*885911817639~
SN1*2*1*EA~
REF*PP*0~
HL*11*2*P~
MAN*CP*1Z5237X30301210467**CP*00000288760384301914~
HL*12*11*I~
LIN*2*VN*DCF860B*IN*324DCF860B*UP*885911817639~
SN1*2*1*EA~
REF*PP*0~
CTT*12~
SE*48*9780001~
GE*1*978~
IEA*1*000059091~

LOOPING NOTES

A Order Loop consists of:
*HL*2*1*O~*
*PRF*4700079874*
A pack Loop consists of:
*HL*3*2*P~*
*MAN*GM*123456789012345**CP*Package #~*
An Item Loop consists of:
*HL*4*3*I~*
*LIN*1*VN*vendor #*IN*White Cap Item #*UP*UPC Code~*
*SN1**100*EA~*
*REF*PP*0*