



# **856 Ship Notice/Manifest**

X12/V3040/856

**Version: 1.0**

**Company: Simplot Australia**  
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# 856 Ship Notice/Manifest

## Functional Group=SH

**Purpose:** This Draft Standard for Trial Use 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b><u>LOOP ID - HL</u></b>					<b><u>200000</u></b>	<b><u>C2/010L</u></b>	
010	HL	Hierarchical Level	M	1			Must use
050	PRF	Purchase Order Reference	O	1			Used
<b><u>LOOP ID - N1</u></b>					<b><u>200</u></b>		
220	N1	Name	O	1		N2/220	Used
<b><u>LOOP ID - HL</u></b>					<b><u>200000</u></b>	<b><u>C2/010L</u></b>	
010	HL	Hierarchical Level	M	1			Must use
020	LIN	Item Identification	O	1			Used
030	SN1	Item Detail (Shipment)	O	1			Used
050	PRF	Purchase Order Reference	O	1			Used
150	REF	Reference Numbers	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used

### Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
020	SE	Transaction Set Trailer	M	1			Must use

### Notes:

2/220 Used to indicate the receiving warehouse or the end user that maintained this order.

### Comments:

2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

**Simplot Note:***Example 856:*

ST1856\18563|  
 BSN\00\PO Number\221021\093143|  
 HL1\1\S|  
 PRF\PO Number|  
 N1\WH\91\Warehouse Number|  
 N1\EN\CHDSPOLJ|  
 HL2\1|  
 LIN\1\VP\12041|  
 SN1\1882\CT|  
 PRF\OF01578094\1\1|  
 DTM\017221107\1\20|  
 HL2\1|  
 LIN\1\VP\12756|  
 SN1\1588\CT|  
 PRF\OF01578094\1\2|  
 DTM\017221107\1\20|  
 HL2\1|  
 LIN\1\VP\12824|  
 SN1\1252\CT|  
 PRF\OF01578094\1\3|  
 DTM\017221107\1\20|  
 HL2\1|  
 LIN\1\VP\34448|  
 SN1\1576\CT|  
 PRF\OF01578094\1\4|  
 DTM\017221107\1\20|  
 HL2\1|  
 LIN\1\VP\34566|  
 SN1\1470\CT|  
 PRF\OF01578094\1\5|  
 DTM\017221107\1\20|  
 HL2\1|  
 LIN\1\VP\34926|  
 SN1\1720\CT|  
 PRF\OF01578094\1\6|  
 DTM\017221107\1\20|  
 SE\37\18563|  
 GE\1\18564|  
 IEA\1\000021151|

# ST Transaction Set Header

Pos: 010	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

**Description:** Code uniquely identifying a Transaction Set.

**Code List Summary** (Total Codes: 236, Included: 1)

**Code Name**

856 X12.10 Ship Notice/Manifest

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

**Simplot Note:** *Unique number assigned by the originator.*

## Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

# BSN Beginning Segment for Ship Notice

Pos: 020	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use

**Description:** Code identifying purpose of transaction set.

**Code List Summary** (Total Codes: 49, Included: 3)

<u>Code</u>	<u>Name</u>
00	Original
01	Cancellation
04	Change

BSN02	396	Shipment Identification	M	AN	2/30	Must use
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**Description:** A unique control number assigned by the original shipper to identify a specific shipment.

**Simplot Note:** *Simplot Purchase Order Number (15 Alphanumeric)*

BSN03	373	Date	M	DT	6/6	Must use
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**Description:** Date (YYMMDD).

**Simplot Note:** *The date the PO was last modified*

BSN04	337	Time	M	TM	4/8	Must use
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**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)

**Simplot Note:** *The time the PO was last modified (HHMMSS)*

## Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

## Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes

## Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set

# Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
050	PRF	Purchase Order Reference	O	1		Used
220		Loop N1	O		200	Used

# HL Hierarchical Level

Pos: 010	Max: 1
Detail - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use

**Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.

**Simplot Note:** 1 Primary level

HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
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**Description:** Code defining the characteristic of a level in a hierarchical structure.

**Code List Summary** (Total Codes: 81, Included: 1)

<u>Code</u>	<u>Name</u>
S	Shipment

## 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. 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.
3. HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.
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.
5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.



# PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

**User Option (Usage):** Used

**Purpose:** To provide reference to a specific purchase order

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use

**Description:** Identifying number for Purchase Order assigned by the orderer/purchaser.

**Simplot Note:** *Simplot PO number (15 Alphanumeric)*

# Loop Name

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

**User Option (Usage):** Used

**Purpose:** To identify a party by type of organization, name and code

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
220	N1	Name	O	1		Used

# N1 Name

<b>Pos: 220</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Used

**Purpose:** To identify a party by type of organization, name and code

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/2	Must use

**Description:** Code identifying an organizational entity, a physical location, or an individual

**Code List Summary** (Total Codes: 687, Included: 2)

**Code Name**

EN End User  
WH Warehouse

N102	93	<b>Name</b>	X	AN	1/35	Used
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**Description:** Free-form name.

**Simplot Note:** *If N101 = EN*

*The AS/400 user that last maintained this PO (10 alpha)*

N103	66	<b>Identification Code Qualifier</b>	X	ID	1/2	Used
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**Description:** Code designating the system/method of code structure used for Identification Code (67).

**Simplot Note:** *If N101 = WH*

**Code List Summary** (Total Codes: 138, Included: 1)

**Code Name**

91 Assigned by Seller or Seller's Agent

N104	67	<b>Identification Code</b>	X	AN	2/17	Used
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**Description:** Code identifying a party or other code.

**Simplot Note:** *If N101 = WH*

*Warehouse number assigned by Simplot (2 alpha)*

## Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

## Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

## Simplot Note:

*Used to indicate the receiving warehouse or the end user that maintained this order.*

# Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
020	LIN	Item Identification	O	1		Used
030	SN1	Item Detail (Shipment)	O	1		Used
050	PRF	Purchase Order Reference	O	1		Used
150	REF	Reference Numbers	O	>1		Used
200	DTM	Date/Time Reference	O	10		Used

# HL Hierarchical Level

Pos: 010	Max: 1
Detail - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use

**Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.

**Simplot Note:** 2 Secondary level

HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
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**Description:** Code defining the characteristic of a level in a hierarchical structure.

**Code List Summary** (Total Codes: 81, Included: 1)

<u>Code</u>	<u>Name</u>
I	Item

## 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. 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.
3. HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.
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.
5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

# LIN Item Identification

<b>Pos: 020</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**User Option (Usage):** Used

**Purpose:** To specify basic item identification data.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	<b>Product/Service ID Qualifier</b>	M	ID	2/2	Must use

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234).

**Code List Summary** (Total Codes: 307, Included: 1)

**Code Name**

VP Vendor's (Seller's) Part Number

LIN03	234	<b>Product/Service ID</b>	M	AN	1/30	Must use
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**Description:** Identifying number for a product or service.

**Simplot Note:** *Simplot JDE product number (15 alpha)*

## Syntax Rules:

1. C0405 - If LIN04 is present, then LIN05 is required.
2. C0607 - If LIN06 is present, then LIN07 is required.
3. C0809 - If LIN08 is present, then LIN09 is required.
4. C1011 - If LIN10 is present, then LIN11 is required.
5. C1213 - If LIN12 is present, then LIN13 is required.
6. C1415 - If LIN14 is present, then LIN15 is required.
7. C1617 - If LIN16 is present, then LIN17 is required.
8. C1819 - If LIN18 is present, then LIN19 is required.
9. C2021 - If LIN20 is present, then LIN21 is required.
10. C2223 - If LIN22 is present, then LIN23 is required.
11. C2425 - If LIN24 is present, then LIN25 is required.
12. C2627 - If LIN26 is present, then LIN27 is required.
13. C2829 - If LIN28 is present, then LIN29 is required.
14. C3031 - If LIN30 is present, then LIN31 is required.

## Semantics:

1. LIN01 is the line item identification

## Comments:

1. See the Data Dictionary for a complete list of ID's.
2. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

# SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

**User Option (Usage):** Used

**Purpose:** To specify line item detail relative to shipment

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped	M	R	1/10	Must use

**Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.

**Simplot Note:** *Number of items to be received (8,0 numeric)*

SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**Code List Summary** (Total Codes: 719, Included: 3)

<u>Code</u>	<u>Name</u>
CT	Carton
EA	Each
KG	Kilogram

## Syntax Rules:

1. C0506 - If SN105 is present, then SN106 is required.

## Semantics:

1. SN101 is the ship notice line item identification.

## Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

# PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

**User Option (Usage):** Used

**Purpose:** To provide reference to a specific purchase order

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	<b>Purchase Order Number</b>	M	AN	1/22	Must use

**Description:** Identifying number for Purchase Order assigned by the orderer/purchaser.

**Simplot Note:** *Simplot PO number (15 Alphanumeric)*

PRF05	350	<b>Assigned Identification</b>	O	AN	1/11	Used
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**Description:** Alphanumeric characters assigned for differentiation within a transaction set.

**Simplot Note:** *Simplot PO line number (3,0 numeric)*



# REF Reference Numbers

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

**User Option (Usage):** Used

**Purpose:** To specify identifying numbers.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

**Description:** Code qualifying the Reference Number.

**Code List Summary** (Total Codes: 859, Included: 1)

**Code Name**

08 Carrier Assigned Package Identification Number

REF02	127	Reference Number	X	AN	1/30	Used
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**Description:** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

**Simplot Note:** Refer 5.15.2.2 for status codes

## Syntax Rules:

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

# DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 3

**User Option (Usage):** Used

**Purpose:** To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

**Description:** Code specifying type of date or time, or both date and time.

**Code List Summary** (Total Codes: 601, Included: 1)

**Code Name**

017 Estimated Delivery

DTM02	373	Date	X	DT	6/6	Used
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**Description:** Date (YYMMDD).

**Simplot Note:** *Expected date.*

DTM05	624	Century	O	N0	2/2	Used
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**Description:** The first two characters in the designation of the year (CCYY).

**Simplot Note:** *Century value of DTM02.*

## Syntax Rules:

1. R020306 - At least one of DTM02, DTM03 or DTM06 is required.
2. P0607 - If either DTM06 or DTM07 is present, then the other is required.

# SE Transaction Set Trailer

Pos: 020	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use

**Description:** Total number of segments included in a transaction set including ST and SE segments.

**Simplot Note:** *Usually generated by EDI software.*

SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
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**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

**Simplot Note:** *Same number as ST02.*

## Comments:

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