MERVYNS

856 Advance Ship Notice - DOMESTIC

Version: X12 V4010

Revision Date	Description	Version
7/13/07	Added TD108 Segment for EDI Requirements	1.1
8/1/07	Updated TD1 Segment from Optional to Mandatory	1.2
8/14/07	Updated TD1 Segment with correct Sample Data	1.3
9/17/07	Updated Sample Data on EDI 810	1.4
12/03/07	Updated TD102 Segment on Page 20 Sample Data on REF & DTM Segments (850)	1.5

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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:

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

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					**200000**		
010	HL	Hierarchical Level - Shipment	M	1		C2/010	Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12			Must use
130	TD3	Carrier Details (Equipment)	O	12			Used
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used
LOOP ID - N1					**200**		
220	N1	Name	M	1			Must use
LOOP ID - HL					**200000**		
010	HL	Hierarchical Level - Order	M	1			Must use
050	PRF	Purchase Order Reference	M	1			Must use
110	TD1	Carrier Details (Quantity and Weight)	M	20			Must use
LOOP ID - N1					**200**		
220	N1	Name	M	1			Must use
LOOP ID - HL					**200000**		
LOOP ID - HL					**200000**		
010	HL	Hierarchical Level - Pack	M	1			Must use
060	PO4	Item Physical Details	M	1			Must use
190	MAN	Marks and Numbers	M	>1			Must use
LOOP ID - HL					**200000**		
010	HL	Hierarchical Level - Item	M	1			Must use
020	LIN	Item Identification	M	1			Must use
030	SN1	Item Detail (Shipment)	M	1			Must use
060	PO4	Item Physical Details	M	1			Must use

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	M	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/010   Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

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

An 856 transmission is to be sent within 60 minutes of the trailer closing at your shipping dock or at the time shipment is released to the carrier.

Mervyns Corporation requires a separate transaction set for each ship to DC location found in the N104 segment of the EDI 850 document. (A transaction set starts with a ST segment and ends with a SE segment).

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

****
Sample ST Segment(s)

ST*856*11550038~

Mervyns Corporation requires a separate transaction set for each ship to location. (A transaction set starts with a ST segment and ends with a SE segment).
****

Element Summary:

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

Description: Code uniquely identifying a Transaction Set

Code	Name
856	Ship Notice/Manifest

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

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

<table>
<tr><td>Pos: 020</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 5</td></tr>
</table>

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

****
Sample BSN Segment(s)

BSN*00*234567*20060201*0142*0001~ (Pick Pack Format)
Only Pick Pack Format Accept.
****

Element Summary:

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

Description: Code identifying purpose of transaction set

Code	Name
00	Original

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN02	396	**Shipment Identification**	M	AN	2/30	Must use

Description: A unique control number assigned by the original shipper to identify a specific shipment
Note that EDI standards state that this should be a unique number. Mervyns Corporation applications have been written based on that. This number will be used to differentiate multiple 856s received from a supplier. This number should be different than the Purchase Order or Bill of Lading Number. A unique control # per transmission needs to be assigned.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN03	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN04	337	**Time**	M	TM	4/8	Must use

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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN05	1005	**Hierarchical Structure Code**	M	ID	4/4	Must use

Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

Code	Name
0001	Shipment, Order, Packaging, Item
	Pick & Pack Format

Semantics:

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

Loop HL

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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level - Shipment	M	1		Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		Must use
130	TD3	Carrier Details (Equipment)	O	12		Used
150	REF	Reference Identification	O	>1		Used
200	DTM	Date/Time Reference	O	10		Used
220		Loop N1	M		200	Must use
010		Loop HL	M		200000	Must use

HL

Hierarchical Level - Shipment

Pos: 010	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

****

Sample HL (Shipment Level) Segment(s)

HL*1**S~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to
Not used by the Retail Industry

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
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. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique numeric 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.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120   **Max: 12**
Detail - Mandatory
Loop: HL   **Elements: 5**

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

****

Sample TD5 Segment(s)

TD5*B*2*HJBT*M*J.B. Hunt~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	133	**Routing Sequence Code**	M	ID	1/2	Must use

Description: Code describing the relationship of a carrier to a specific shipment movement

Code	Name
B	Origin/Delivery Carrier (Any Mode)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier**	M	ID	1/2	Must use

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
2	Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	67	**Identification Code**	M	AN	2/80	Must use

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD504	91	**Transportation Method/Type Code**	M	ID	1/2	Must use

Description: Code specifying the method or type of transportation for the shipment

Code	Name
A	Air
C	Consolidation
M	Motor (Common Carrier)
U	Private Parcel Service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD505	387	**Routing**	M	AN	1/35	Must use

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

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.

TD3   Carrier Details (Equipment)

Pos: 130	**Max: 12**
Detail - Optional	
Loop: HL	**Elements: 1**

User Option (Usage): Used
Purpose: To specify transportation details relating to the equipment used by the carrier

****

Sample TD3 Segment(s)

TD3*4B*KLFU*1269974~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD303	207	**Equipment Number**	X	AN	1/10	Used

Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

REF   Reference Identification

User Option (Usage): Used
Purpose: To specify identifying information

****

This segment is critical for matching the EDI 214 Carrier Status Message with your EDI 856 Ship Notice Message. Mervyns Corporation requires:
A UNIQUE Bill of Lading (BOL) number for each shipment.
The TYPE of BOL used is determined by the MODE of transportation.

1) When routing via truck load carrier, one unique BOL is preferred per trailer.
If constraints require a BOL per Purchase Order, then a Master BOL must be used to summarize the underlying bills of lading. When a Master BOL # is used, transmit this number on the 856. The Master BOL # must be passed to the carrier as the Shipment BOL # for the 214.

2) When routing via LTL carrier, one individual BOL # is preferred per Ship-to location. If constraints require a BOL per Purchase Order, then a Master BOL must be used to summarize the underlying bills of lading. When a Master BOL # is used, transmit this number on the 856. The Master BOL # must be passed to the carrier as the Shipment BOL # for the 214.

3) When routing to a Mervyns Corporation consolidator, a Master BOL # must be used and sent on the 856. The Master BOL # must reflect the actual BOL # given to the carrier on the Master BOL form.

4) When a BOL # and a shipper # are both present on a paper BOL, it is required that the unique BOL # is sent on the 856.

5) When the BOL form does not include a BOL #, but has a Shipper #, then the Shipper # is used as the BOL # on both the EDI 856 and 214.
Sample REF Segment(s)

REF*BM*30582~
REF*CN*123456789~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
The mode of transportation determines both the transportation method type code (TD504) and the REF segment qualifier (REF01).

TRANSPORTATION

Element: TD504 REF01 REF02

Air A CN Carrier Ref.#
(Carrier
Tracking
Number)

Consolidation C MB Master Bill of
Lading#
BM Underlying (When
used with MB)

TL or LTL M BM Bill of Lading #
(Optional) CN Carrier Pro #

Private Parcel U CN Carrier Ref.#
(Carrier
Tracking
Number)

		Code	Name
		BM	Bill of Lading Number

Required when shipping via motor carrier or Consolidation (TD504 equals "C" or "M").

		CN	Carrier's Reference Number (PRO/Invoice)

Required when shipping parcel package shipments.

		MB	Master Bill of Lading

Please note: if the Master Bill of Lading (MB) and Bill of Lading (BM) are both sent, Mervyns Corporation will only use the Master Bill of Lading (MB) number.

REF02	127	**Reference Identification**	M	AN	1/30	Must use

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

A unique Bill of Lading (BOL) number for each shipment is required. When the mode of transportation is for Consolidation, a unique Master BOL # is required for all ship to locations on that shipment.

Syntax Rules:

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

DTM   Date/Time Reference

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

****

Sample DTM Segment(s)

DTM*067*20070401~
DTM*068*20070321~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	Name
011	Shipped
067	Current Schedule Delivery
068	Current Schedule Ship

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	X	DT	8/8	Used

Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Loop N1

Pos: 220   **Repeat: 200**
Mandatory
Loop: N1   **Elements: N/A**

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	M	1		Must use

N1   Name

Pos: 220   **Max: 1**
Detail - Mandatory
Loop: N1   **Elements: 3**

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

****

At least one N1 segment, containing an N101 of ST or BS, is required.

Sample N1 Segment(s)

N1*BS**92*00997~
N1*ST**92*00997~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

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

Code	Name
BS	Bill and Ship To
	Used for Ship To Mark For.
ST	Ship To
	Post Distro

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	M	AN	2/80	Must use

Description: Code identifying a party or other code
This will contain the 5-digit Mervyns Corporation Location Number (DC Number)

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.

Loop HL

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level - Order	M	1		Must use
050	PRF	Purchase Order Reference	M	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20		Used
220		Loop N1	M		200	Must use
010		Loop HL	M		200000	Must use

HL   Hierarchical Level - Order

Pos: 010	**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

****

Sample HL (Order Level) Segment(s)

HL*2*1*O~

An HL at Order Level must be sent for every Mark for Location.
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
O	Order

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 numeric 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.

PRF   Purchase Order Reference

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

*Warning: Segment includes critical data elements. Please ensure accuracy to avoid document suspension and/or loss of data.

This is the 10-digit PO#
When a Release PO# was sent against a Bulk/Blanket PO, send the Bulk PO# in PRF01 and the Release PO# in the PRF02

****
Sample PRF Segment(s)

PRF*1234567899~ (Stand-Alone POs)
PRF*1234567890*1234567891~ (both Bulk and Release PO #s)
****

Element Summary:

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

Description: Identifying number for Purchase Order assigned by the orderer/purchaser
Send the same number here that was received on the 850 PO in element BEG03. This is the 10-digit Bulk or Stand-Alone PO number.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF02	328	**Release Number**	M	AN	1/30	Must use

Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction
This element is used only when BEG02 = 'RL' on the PO850. It contains the 10-digit Release PO# issued against a Bulk/Blanket order.
Send the same number here that was received on the 850 PO in element BEG04.

TD1 Carrier Details (Quantity and Weight)

Pos: 110	**Max: 20**
Detail - Mandatory	
Loop: HL	**Elements: 3**

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

****

Sample TD1 segment (s)

TD1*CTN25*9****G*43.32*LB~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	M	AN	3/5	Must Use

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

This data element contains 2 parts. Part 1 is the first 3 positions. It is alphabetic and those codes valid for Mervyns Corporation are the first 3 listed below. Part 2 is the final 2 positions and is numeric. See example part one = CTN. Mervyns Corporation is only concerned with the Part 1 codes. Any legal code or spaces can be used for Part 2. Note though that some translator packages may not allow spaces for Part 2. See Sample TD1 segments above.

Code	Name
CTN	Carton

Code	Name
25	Carton Corrugated
31	Carton Fiber
76	Carton Paper

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD102	80	**Lading Quantity**	M	N0	1/7	Must Use

Description: Number of units (pieces) of the lading commodity
Value equals number of MAN Segments

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD106	187	**Weight Qualifier**	X	ID	1/2	Used

Description: Code defining the type of weight
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD107	81	**Weight**	X	R	1/10	Used

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD108	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0607 - If TD106 is present, then TD107 is required.
3. P0708 - If either TD107 or TD108 is present, then the other is required.

Loop N1

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	M	1		Must use

N1   Name

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

****

Sample N1 Segment(s)

N1*BY**92*00997~
N1*MA**92*00221~ Used for Ship to Mark For
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

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

Code	Name
BY	Buying Party (Purchaser)
	Post Distro
MA	Party for whom Item is Ultimately Intended
	Used for Ship To Mark For

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	M	AN	2/80	Must use

Description: Code identifying a party or other code
This will contain the 5-digit Mervyns Corporation Location Number (DC Number) or store number

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.

Loop HL

<table>
<tr><td>Pos: 010</td><td>Repeat: 200000</td></tr>
<tr><td colspan="2" align="center">Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: N/A</td></tr>
</table>

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010		Loop HL	M		200000	Must use

Loop HL

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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level - Pack	M	1		Must use
060	PO4	Item Physical Details	M	1		Must use
190	MAN	Marks and Numbers	M	>1		Must use
010		Loop HL	M		200000	Must use

HL   Hierarchical Level - Pack

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

****
Sample HL (Pack Level) Segment(s)

HL*4*3*P~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
P	Pack

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.

PO4   Item Physical Details

<div style="float:right; border:1px solid black;">

Pos: 060   **Max: 1**
Detail - Mandatory
Loop: HL   **Elements: 2**

</div>

User Option (Usage): Must use
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

****

NOTE: Mervyns Corporation prefers receiving the PO4 at the pack level for the pick/pack structure. If it is not possible to send at the pack level, the PO4 must be sent at the item level.

PO401, PO414 are required on the PO, then it is required to send back on the 856.

Use whole numbers only for all elements.

Sample PO4 Segment(s)

PO4*12*************1~ case qty = 12, 1 sku in carton, no prepack quantities
PO4*1*************6~ case qty = 6, one sku in carton, 1 pack of 6
PO4*2*************6~ case qty = 12, 2 pre packs of 6, (PO4 01 x PO4 14= 12)
PO4*1*************1~ Ship To Mark For (predistro) and Assortment Prepack
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	**Pack**	M	N0	1/6	Must use

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container
The number of prepacks

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO414	810	**Inner Pack**	M	N0	1/6	Must use

Description: The number of eaches per inner container
Quantity in a prepack

MAN   Marks and Numbers

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

****

Mervyns Corporation requires a GM qualifier in the MAN01 with a unique 20-digit barcode for each carton in the MAN02.

Ranging is not allowed.

Sample MAN Segment(s)

MAN*GM*00000123456789876751~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

Code	Name
GM	SSCC-18 and Application Identifier

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN02	87	**Marks and Numbers**	M	AN	1/48	Must use

Description: Marks and numbers used to identify a shipment or parts of a shipment

Loop HL

<table>
<tr><td>Pos: 010</td><td>Repeat: 200000</td></tr>
<tr><td colspan="2">Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: N/A</td></tr>
</table>

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level - Item	M	1		Must use
020	LIN	Item Identification	M	1		Must use
030	SN1	Item Detail (Shipment)	M	1		Must use
060	PO4	Item Physical Details	M	1		Must use

HL

Hierarchical Level - Item

Pos: 010	**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

****

Sample HL (Item Level) Segment(s)

HL*5*4*I~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use

Description: Code defining the characteristic of a level in a hierarchical structure

Code	Name
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. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique numeric 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.

LIN   Item Identification

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

****

Always send either Mervyns Corporation Item number with a CB qualifier, the assigned UPC number with a UP
qualifier, or the EAN with either EN or EO qualifier.

Sample LIN Segment(s)

LIN**CB*001234567*UP*123456789016~
LIN**UP*123456789016~
LIN**CB*001234567~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

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

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

Code	Name
CB	Buyer's Catalog Number
EN	European Article Number (EAN) (2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN04	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

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

Code	Name
CB	Buyer's Catalog Number
EN	European Article Number (EAN) (2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN05	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN06	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

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

Code	Name
CB	Buyer's Catalog Number
EN	European Article Number (EAN) (2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN07	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

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

Comments:

1. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

SN1   Item Detail (Shipment)

<table>
<tr><td>Pos: 030</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 3</td></tr>
</table>

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

****

Sample SN1 Segment(s)

SN1**24*EA~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

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

SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code	Name
EA	Each

Semantics:

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

Comments:

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

PO4   Item Physical Details

<table>
<tr><td>Pos: 060</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Must use
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

****

NOTE: Mervyns Corporation prefers receiving the PO4 at the pack level for the pick/pack structure. If it is not possible to send at the pack level, the PO4 must be sent at the item level.

PO401, PO414 are required on the PO, then it is required to send back on the 856.

Use whole numbers only for all elements.

Sample PO4 Segment(s)

PO4*12*************1~ case qty = 12, 1 sku in carton, no prepack quantities
PO4*1*************6~ case qty = 6, one sku in carton, 1 pack of 6
PO4*2*************6~ case qty = 12, 2 pre packs of 6, (PO4 01 x PO4 14= 12)
PO4*1*************1~ Ship To Mark For (predistro) and Assortment Prepack
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	**Pack**	M	N0	1/6	Must use

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container
The number of prepacks

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO414	810	**Inner Pack**	M	N0	1/6	Must use

Description: The number of eaches per inner container
Quantity in a prepack

CTT   Transaction Totals

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

****

Sample CTT Segment(s)

CTT*2888~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

Comments:

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

SE Transaction Set Trailer

<table>
<tr><td>Pos: 020</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

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)

****

Sample SE Segment(s)

SE*127*11550038~
****

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Comments:

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

Assortment Prepack:

```
ST*850*13800084~
BEG*00*SA*0000252886**20070309~
REF*IA*999999*Vend XYZ ~
REF*DP*972*TRADITIONAL CASUAL COORD~
REF*MR*AP*Assortment prepack~
FOB*DF*OR*SHIPPING POINT~
CSH*N~
SAC*A*A260***192*3*2*****02***CO-OP ADVERTISING~
SAC*A*C000***48*3*0.5*****02***RTV ALLOWANCE~
SAC*A*I570***96*3*1*****02***WAREHOUSE ALLOWANCE~
ITD*01*2**********NET 60 ROG~
DTM*037*20070309~
DTM*038*20070323~
DTM*002*20070326~
DTM*410*20070331~
N9*ZZ*SPH~
MSG*asst prepack test - IM only to allocate~
N1*BY*997 NORTHERN CALIFORNIA DC*92*00997~
N3*MERVYN'S DISTRIBUTION CENTER*48200 FREMONT BLVD~
N4*FREMONT*CA*94538*US~
PO1*1*2*EA*48**CB*001363441*VA*A8007341H99*UP*455282083784~
CTP*RS*RES*156********1~
PID*F*08***AST~
PID*F*08***ASSORTMENT~
PO4*1************1~
SAC*N**VI*HA**********H~
SAC*N**VI*TC990101***********C40149~
SLN*1**I*2EA*8**I*CB*001362186*VA*8007341H99*UP*427849940805~
PID*F*08*VI*PP*CROP S EARTH~
SLN*2**I*4EA*8**I*CB*001362187*VA*8007341H99*UP*427849940829~
PID*F*08*VI*PP*CROP M EARTH~
SLN*3**I*4EA*8**I*CB*001362188*VA*8007341H99*UP*427849940836~
PID*F*08*VI*PP*CROP L EARTH~
SLN*4**I*2EA*8**I*CB*001362189*VA*8007341H99*UP*427849940812~
PID*F*08*VI*PP*CROP XL EARTH~
CTT*1*2~
SE*37*13800084~

ST*856*0045~
BSN*00*06561200010684902A*20070314*1720*0001~
HL*1**S~
TD5*B*2*UPSW*M*UPS WORLDWIDE~
REF*BM*06561200010684902~
N1*ST**92*00997~
HL*2*1*O~
PRF*0000252886~
PID*S**VI*FL~
TD1*CTN25*9****G*43.32*LB~
N1*BY**92*00997~
HL*3*2*P~
MAN*GM*00004561209306713630~
HL*4*3*I~
LIN*1*UP*455282083784~
SN1**1*EA~
PO4*1************1~
HL*5*2*P~
MAN*GM*00004561209306713647~
HL*6*5*I~
LIN*2*UP*455282083784~
SN1**1*EA~
PO4*1************1~
CTT*6~
SE*25*0045~
ST*810*0073~
BIG*20070314*0090500630*20070309*0000252886~
```

```
REF*IA*999999~
REF*DP*972~
N1*ST*MERVYNS DC 0997*92*00997~
N1*BY*MERVYNS DC 0997*92*00997~
IT1*1*2*EA*48**CB*001363441*UP*455282083784~
TDS*9264~
SAC*A*A260***192*3*2*****02***CO-OP ADVERTISING~
SAC*A*C000***48*3*0.5*****02***RTV ALLOWANCE~
SAC*A*I570***96*3*1*****02***WAREHOUSE ALLOWANCE~
CTT*1~
SE*13*0073~
```

STMF:

```
ST*850*11070012~
BEG*00*SA*0000203281**20061129~
REF*IA*888888*VendorXYZ ~
REF*DP*950*ACCESSORIES~
REF*MR*MF*Ship to Mark For~
FOB*DF*OR*SHIPPING POINT~
CSH*N~
SAC*A*A260***64*3*2*****02***CO-OP ADVERTISING~
SAC*A*C000***64*3*2*****02***RTV ALLOWANCE~
SAC*A*I570***32*3*1*****02***WAREHOUSE ALLOWANCE~
ITD*01*2**********NET 60 ROG~
DTM*037*20061201~
DTM*038*20061208~
DTM*002*20061211~
N9*ZZ*SPH~
MSG*STMF PILOT ORDER~
N1*BS*997 NORTHERN CALIFORNIA DC*92*00997~
N3*MERVYN'S DISTRIBUTION CENTER*48200 FREMONT BLVD~
N4*FREMONT*CA*94538*US~
PO1*1*5*EA*6.35**CB*001279203*VA*WM3002001*UP*403357132430~
CTP*RS*RES*24********1~
PID*F*73***BLACK NATURAL~
PID*F*74***NO SIZE~
PID*F*08***P LUCCA WRAP BLK~
PO4*1*************1~
SAC*N**VI*TC990101**********Z12610~
SDQ*EA*92*00001*3*00007*2~
PO1*2*5*EA*6.35**CB*001279204*VA*WM3002005*UP*403357182350~
CTP*RS*RES*24********1~
PID*F*73***BLACK OFF WHITE~
PID*F*74***NO SIZE~
PID*F*08***P LUCCA WRAP BLK-WHT~
PO4*1*************1~
SAC*N**VI*TC990101**********Z12610~
SDQ*EA*92*00001*2*00007*3~
CTT*2*10~
SE*37*11070012~
```

```
ST*856*000090001~
BSN*00*0054660828*20061213*0844*0001~
HL*1**S~
TD5*B*2*UPSN*U*UPS Ground Prepaid~
REF*CN*04170700054660828~
N1*BS**92*00997~
HL*2*1*O~
PRF*0000203281~
PID*S**VI*FL~
TD1*CTN25*9****G*43.32*LB~
N1*MA**92*00001~
HL*3*2*P~
MAN*GM*00407576000010502427~
HL*4*3*I~
LIN*1*UP*403357132430~
SN1**3*EA~
HL*5*3*I~
LIN*2*UP*403357182350~
SN1**2*EA~
HL*6*1*O~
PRF*0000203281~
PID*S**VI*FL~
TD1*CTN25*1~
N1*MA**92*00007~
HL*7*6*P~
MAN*GM*00407576000010502410~
HL*8*7*I~
LIN*1*UP*403357132430~
SN1**2*EA~
HL*9*7*I~
LIN*2*UP*403357182350~
SN1**3*EA~
CTT*9~
SE*34*000090001~


ST*810*0001~
BIG*20061205*3503241340**0000203281~
REF*DP*950~
REF*IA*888888~
N1*BS**92*00997~
IT1**5*EA*6.35**UP*403357132430*CB*001279203~
IT1**5*EA*6.35**UP*403357182350*CB*001279204~
TDS*6030~
SAC*A*A260***64*3*2*****02***CO-OP ADVERTISING~
SAC*A*C000***64*3*2*****02***RTV ALLOWANCE~
SAC*A*I570***32*3*1*****02***WAREHOUSE ALLOWANCE~
CTT*2~
SE*13*0001~
```

Size Mix/ Single Item Orders

```
ST*850*16680083~
BEG*00*RL*0000232436*0000232821*20070201~
REF*IA*999999*Vendor XYZ~
REF*DP*931*BOYS 8-20 OWNED BRAND/SW~
REF*MR*OT*Other Types~
FOB*DF*OR*SHIPPING POINT~
CSH*N~
SAC*A*A260***70616*3*2*****02***CO-OP ADVERTISING~
SAC*A*C000***35308*3*1*****02***RTV ALLOWANCE~
SAC*A*I570***35308*3*1*****02***WAREHOUSE ALLOWANCE~
ITD*01*2**********NET 60 ROG~
DTM*037*20070201~
DTM*038*20070209~
DTM*002*20070212~
DTM*410*20070217~
N9*ZZ*SPH~
MSG*item #1295197 is a back-up to support a Feb Ad.~
MSG*The other items are new styles and also Ad~
MSG*features.~
N1*BY*997 NORTHERN CALIFORNIA DC*92*00997~
N3*MERVYN'S DISTRIBUTION CENTER*48200 FREMONT BLVD~
N4*FREMONT*CA*94538*US~
PO1*1*24*EA*6.5**CB*001295199*VA*KBP7-250MRV*UP*462166222435~
CTP*RS*RES*24********1~
PID*F*73***ULTRAMARINE~
PID*F*74***SIZE MIX~
PID*F*08***chest/shlder pc-ultmarine,s-xl~
PO4*1*************6~
SAC*N**VI*HA**********H~
SAC*N**VI*TC990101**********Z12680~
CTT*1*5432~
SE*32*16680083~


ST*856*0074~762166222428
BSN*00*0144690208*20070208*1403*0001~
HL*1**S~
TD5*B*2*COGM*M*CONSOLIDATED GARMENT~
REF*BM*07621662000014469~
N1*ST**92*00997~
HL*2*1*O~
PRF*0000232436*0000232821~
PID*S**VI*FL~
TD1*CTN25*9****G*43.32*LB~
N1*BY**92*00997~
HL*3*2*P~
PO4*1*************6~
MAN*GM*00004621660000225320~
HL*4*3*I~
LIN**UP*462166222435~
SN1**6*EA~
HL*5*2*P~
PO4*1*************6~
MAN*GM*000044621660000225337~
HL*6*5*I~
LIN**UP*462166222435~
SN1**6*EA~
HL*7*2*P~
PO4*1*************6~
MAN*GM*00000421660000225344~
HL*8*7*I~
LIN**UP*462166222435~
SN1**6*EA~
HL*9*2*P~
PO4*1*************6~
MAN*GM*00004621660000225351~
HL*10*9*I~
```

LIN**UP*462166222435~
SN1**6*EA~
CTT*9~
SE*37*0074~

ST***810***0160~
BIG*20070208*112091**0000232436*0000232821~
REF*DP*931~
REF*IA*999999~
N1*BY**92*00997~
IT1**24*EA*6.5**UP*462166222435~
TDS*14976~
SAC*A*A260***312*3*2*****02***CO-OP ADVERTISING~
SAC*A*C000***156*3*1*****02***RTV ALLOWANCE~
SAC*A*I570***156*3*1*****02***WAREHOUSE ALLOWANCE~
CTT*1~
SE*12*0160~