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Message Implementation Guide

ANSI 856

Advance Ship Notice

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Contents

FUNCTIONAL GROUP ID - SH

This standard provides the standardised format and establishes the data contents of a ship notice/manifest transaction set. A ship notice/manifest lists 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 organisation 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 organisation having an interest in the contents of a shipment or information about the contents of the shipment.

The purpose of this diagram is to identify which segments are used by Target/Target Country at each level. When the transaction represents the Pick and Pack Structure, the levels will be in the order as shown. However, when the transaction represents the Standard Carton Pack Structure, the item level will appear after the Order level and before the Tare, Pack and Subpack levels.

HEADER

TARGET/TARGET COUNTRY	Seg. ID		Req. Name	Max. Des.	Loop Use Repeat
USE	ST	Transaction Set Header	M	1	
USE	BSN	Beginning Segment for Ship Notice	M	1	

SHIPMENT

USE	HL	Hierarchical Level	M	1	HL/200000
NOT USED	PO4	Item Physical Details	O	1	
USE	TD1	Carrier Details (Quantity and Weight)	O	20	
NOT USED	TD5	Carrier Details (Routing Sequence/Transit Time)		O	12
NOT USED	TD3	Carrier Details (Equipment)	O	12	HL/200000
USE	REF	Reference Numbers (3)	O	200	
NOT USED	PER	Administrative Communications Contact	O	1	
USE	DTM	Date/Time Reference (3)	O	10	
NOT USED	FOB	F.O.B. Related Instructions	O	1	
USE	N1	Name	O	1	N1/200
NOT USED	N2	Additional Name Information	O	2	
NOT USED	N3	Address Information	O	2	
NOT USED	N4	Geographic Location	O	1	

	ORDER				
USE	HL	Hierarchical Level	M	1	HL/200000
USE	PRF	Purchase Order Reference	O	1	
USE	TD1	Carrier Details (Quantity and Weight)	O	20	
USE	TD5	Carrier Details (Routing Sequence/Transit Time	M	12	
USE	REF	Reference Numbers	O	200	
USE	N1	Name	O	1	N1/200
NOT USED	N2	Additional Name Information	O	2	
NOT USED	N3	Address Information	O	2	
NOT USED	N4	Geographic Location	O	1	
NOT USED	CUR	Currency	O	1	
	TARE				
USE	HL	Hierarchical Level	M	1	HL/200000
USE	TD1	Carrier Details (Quantity and Weight)	O	20	
USE	MAN	Marks and Numbers	O	10	
	PACK				
USE	HL	Hierarchical Level	M	1	HL/200000
USE	PO4	Item Physical Details	O	1	
NOT USED	PKG	Marking, Packaging, Loading	O	25	
USE	MAN	Marks and Numbers	O	10	
	ITEM				
USE	HL	Hierarchical Level	M	1	HL/200000
USE	LIN	Item Identification	O	1	
USE	SN1	Item Detail (Shipment)	O	1	
NOT USED	SLN	Subline Item Detail	O	100	
NOT USED	PRF	Purchase Order Reference	O	1	
USE	PO4	Item Physical Details	O	1	
NOT USED	PID	Product/Item Description	O	200	
NOT USED	MEA	Measurements	O	40	
NOT USED	PKG	Marking, Packaging, Loading	O	25	
NOT USED	TD1	Carrier Details (Quantity and Weight)	O	20	
NOT USED	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
NOT USED	TD4	Carrier Details (Special Handling or	O	5	
NOT USED		Hazardous Materials or Both)			
NOT USED	REF	Reference Numbers	O	200	
NOT USED	DTM	Date/Time Reference	O	10	
NOT USED	ITA	Allowance, Charge or Service	O	10	
	SUMMARY				
USE	CTT	Transaction Totals	M	1	
USE	SE	Transaction Set Trailer	M	1	

ST - Transaction Set Header

Level: Header

Loop: ____

Usage: Mandatory

Max Use: 1

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

Comments: **A** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set. **856** X12.10 Ship Notice/Manifest	**M ID 3/3**
ST02	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set **The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.** **Inserted by Target.**	**M AN 4/9**

Example: ST*856*0001

BSN - Beginning Segment for Ship Notice

Level: Header

Loop: ____

Usage: Mandatory

Max Use: 1

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

Comments: **A** BSN03 is the date the shipment transaction set is created.

B BSN04 is the time the shipment transaction set is created.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
BSN01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set **00** Original **07** Duplicate	**M ID 2/2**
BSN02	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment. **Target requires this field to be populated by no more than 10 digits, and must contain *no* characters.**	**M AN 2/10**
BSN03	**373**	**Date** Date (YYMMDD).	**M DT 6/6**
BSN04	**337**	**Time** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	**M TM 4/6**
BSN05	**1005**	**Hierarchical Structure Code** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set. **0001** Shipment, Order, Packaging, Item **Pick and Pack Structure** **0002** Shipment, Order, Item, Packaging **Standard Carton Pack Structure**	**M ID 4/4**

HL Hierarchical Level

Level: **Detail - Shipment**

Loop: HL **Repeat:** 200000

Usage: Mandatory

Max Use: 1

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

Segment: **HL Hierarchical Level**

Level: Detail - Shipment

Loop: HL **Repeat:** 200000

Usage: Mandatory

Max Use: 1

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

Comments:

A: 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.

B: The HL Segment defines a top-down/left-right ordered structure.

C: 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.

D: HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

E: 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.

F: HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.
HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment which it is subordinate to (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, e.g., Shipment, Order, Pack, Subpack and item.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. **The value for this (shipment) level is 1.**	**M**	**AN**	**1/12**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. S Shipment	**M**	**ID**	**1/2**

Example: HL*1**S

TD1 - Carrier Details(Quantity and Weight)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax:

1. **CO102**
   If TD101 is present, then TD102 is required.
2. **CO304**
   If TD103 is present, then TD104 is required.
3. **CO60708**
   If TD106 is present, then TD107 and TD108 are required.

Notes This segment is used to specify total containers and gross weight of the shipment.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	**103**	**Packaging Code** Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material. The following combinations are used by the retail industry. See the ASC X12 code values and code definitions below. 1 to 20 occurrences per shipment. **BAG76 BAG79 CTN25 CTN31 CTN76** **PLT01 PLT94 SLP25 UNT71** **Part 1** **BAG** Bag **CTN** Carton **PLT** Pallet **SLP** Slip Sheet **UNT** Unit **Part 2** **01** Aluminium **25** Corrugated or Solid **31** Fibre **71** Not Otherwise Specified **76** Paper **79** Plastic **94** Wood Use “PLT01” for hanging garment trolleys Use “UNT71” for loose items.	**M AN 5/5**
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity. The number of packages in the shipment as described in TD101.	**M N 1/7**

REF Reference Numbers (1)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 200

Purpose: To specify identifying numbers.

Syntax: **1 R0203**
At least one of REF02 or REF03 is required.

Notes: This segment is used to specify the bill of lading and the PRO number. One segment per number.

In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated Master Bill of Lading Number will facilitate tracking.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	**128**	**Reference Number Qualifier** Code qualifying the Reference Number. **BM** Bill of Lading Number **CN** Carrier‟ s Reference Number (PRO/Invoice)	**O ID 2/2**
REF02	**127**	**Reference Number** Reference Number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**O AN 1/30**

Example: REF*CN*123456

REF Reference Numbers (2)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 200

Purpose: To specify identifying numbers.

Syntax: **R0203**
At least one of REF02 or REF03 is required.

Notes: This segment is used to specify the Booking Number. One segment per number.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	**128**	**Reference Number Qualifier** Code qualifying the Reference number. **BN** Booking Numbers	**O ID 2/2**
REF02	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**O AN 1/30**

Example: REF*BN*00014Q851003

REF Reference Numbers (3)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 200

Purpose: To specify identifying numbers.

Syntax: **1 R0203**
At least one of REF02 or REF03 is required.

Comments: This segment is used to specify the Invoice number.
One segment per number.

Used when one invoice has been issued for the ASN

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	**128**	**Reference Number Qualifier** Code qualifying the Reference number. **IV** Senders Invoice	**O ID 2/2**
REF02	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**O AN 1/30**

Example: REF*IV*0432967

DTM Date/Time Reference (1)

Level: Detail - Shipment

Loop: HL

Usage: Mandatory.

Max Use: 10

Purpose: To specify pertinent dates and times.

Syntax: **1 R0203**
At least one of DTM02 or DTM03 is required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	**374**	**Day/Time Qualifier** Code specifying type of date or time, or both date and time. **067** Current Schedule Delivery	**M ID 3/3**
DTM02	**373**	**Date** Date (YYMMDD).	**M DT 6/6**
DTM03	**337**	**Time** Time expressed in 24 hour clock time (HHMMSS) (Time range: 000000 through 235959.	**O TM 4/6**
DTM05	**624**	**Century** The first two characters in the designation of the year (CCYY). Suppliers will be notified if this field becomes mandatory.	**O N 2/2**

Example: DTM*067*971031

DTM Date/Time Reference (2)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times.

Syntax: **1 R0203**
At least one of DTM02 or DTM03 is required.

Comment: **This segment is required by Target**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	**374**	**Day/Time Qualifier** Code specifying type of date or time, or both date and time. **011** Shipped **(Mandatory for Target/Target Country)**	**O ID 3/3**
DTM02	**373**	**Date** Date (YYMMDD) **(Mandatory for Target/Target Country)**	**O DT 6/6**
DTM03	**337**	**Time** Time expressed in 24 hour clock time (HHMMSS) (Time range: 000000 through 235959.	**O TM 4/6**
DTM05	**624**	**Century** The first two characters in the designation of the year (CCYY). Suppliers will be notified if this field becomes mandatory.	**O N 2/2**

Example: DTM*011*971031

DTM Date/Time Reference (3)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times.

Syntax: **1 R0203**
At least one of DTM02 or DTM03 is required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	**374**	**Day/Time Qualifier** Code specifying type of date or time, or both date and time. **068** Current Schedule Ship	**O ID 3/3**
DTM02	**373**	**Date** Date (YYMMDD).	**O DT 6/6**
DTM03	**337**	**Time** Time expressed in 24 hour clock time (HHMMSS) (Time range: 000000 through 235959.	**O TM 4/6**
DTM05	**624**	**Century** The first two characters in the designation of the year (CCYY). Suppliers will be notified if this field becomes mandatory.	**O N 2/2**

Example: DTM*068*971101

N1 Name

Level: Detail - Shipment

Loop: HL/N1 **Repeat:** 200

Usage: Mandatory

Max Use: 1

Purpose: To identify a party by type of organisation, name and code.

Syntax:

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:

A This segment, used alone, provides the most efficient method of providing organisational identification. To obtain this efficiency by "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Notes: N103 and N104 are required except when N101 contains code CT, MA, or OB

When the ship to is the end consumer (customer of retailer), N103 and N104 are not required.
In some EDI implementations, it may be necessary to identify the send and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR, N103 will contain code 93, and N104 will contain the actual identification number. To identify the receiver of the transaction set, N101 will contain code TO, N103 will contain code 94, and N104 will contain the actual identification number. These four codes may only be used in the combination listed above and may one be used to identify the sender and/or receiver of the transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N101	**98**	**Entity Identifier Code** Code identifying an organisational entity or a physical location. **ST** Ship To	**M**	**ID**	**2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67). **92** Assigned by Buyer or Buyers Agent.	**M**	**ID**	**2/2**
N104	**67**	**Identification Code** Code identifying a store This is the location code as defined by N103. The location code may be a formal number, eg: DUNS or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution centre, plant, etc. Location codes are used to alleviate the need to send complete names and addresses. **5839** Target Taras Avenue DC	**M**	**AN**	**2/17**

Example: N1*ST**92*5839

HL Hierarchical Level

Level: Detail - Order

Loop: HL **Repeat:** 200000

Usage: Mandatory

Max Use: 1

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

Comments:

A 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.

B The HL segment defines a top-down/left-right ordered structure.

C 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.

D HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

E 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.

F HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.
HL02 identifies the hierarchical ID of the HL segment which it is subordinate to (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, eg Shipment, Order, Pack, Subpack and Item.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the Sender to identify a particular data segment in a hierarchical structure.	**M**	**AN**	**1/12**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**M**	**AN**	**1/12**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. **O** Order	**M**	**ID**	**1/2**

Example: HL*2*1*0

PRF Purchase Order Reference

Level: Detail - Order

Loop: HL

Usage: Mandatory.

Max Use: 1

Purpose: To provide reference to a specific purchase order.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PRF01	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser. Target‟ s original purchase order number.	**M N 1/22**

Example: PRF*12345675839

TD1 Carrier Details (Quantity and Weight)

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax:

1 CO102
If TD101 is present, then TD102 is required.

2 CO304
If TD103 is present, then TD104 is required.

3 CO60708
If TD106 is present, then TD107 and TD108 are required.

Notes This segment is used to specify the number and type of shipping containers in the order

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	**103**	**Packaging Code** Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material. The following combinations are used by the retail industry. See the ASC X12 code values and code definitions below. **BAG76 BAG79 CTN25 CTN31 CTN76** **PLT01 PLT94 SLP25 UNT71** **Part 1** **BAG** Bag **CTN** Carton **PLT** Pallet **SLP** Slip Sheet **UNT** Unit **Part 2** **01** Aluminium **25** Corrugated or Solid **31** Fibre **71** Not Otherwise Specified **76** Paper **79** Plastic **94** Wood	**O AN 5/5**
TD102	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity.	**O N 1/7**

Example: TD1*CTN25*10

TD5 Carrier Details(Routing Sequence/Transit Times)

Level: Detail - Order

Loop: HL

Usage: Mandatory.

Max Use: 12

Purpose: To specify the carrier, sequence of routing and to provide transit time information.

Syntax:

1 RO20405
At least one of TD502, TD504 or TD505 is required.

2 C0203
If TD502 is present, then TD503 is required.

3 CO708
If TD507 is present, then TD508 is required.

4 C1011
If TD510 is present, then TD511 is required.

Comments:

A 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, use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Notes This segment, at the order level, is used to specify the status of the order.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD504	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment. **M** Motor	**M ID 1/2**
TD506	**368**	**Shipment/Order Status Code** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction. **CC** Shipment complete on (Date) **SS** Split Shipment	**M ID 2/2**

Example: TD5****M**CC

REF Reference Numbers

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 200

Purpose: To specify identifying numbers.

Syntax: **1 R0203**
At least one of REF02 or REF03 is required.

Used when more than one invoice has been issued for the ASN.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	**128**	**Reference Number Qualifier** Code qualifying the Reference number. **IV** Senders Invoice	**O ID 2/2**
REF02	**127**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	**O AN 1/30**

Example: REF*IV*0492564

N1 Name

Level: Detail - Order

Loop: HL/N1 **Repeat:** 200

Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organisation, name and code.

Syntax:

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:

A This segment, used alone, provides the most efficient method of providing organisational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Notes: There will be at least one occurrence of this segment to identify the buying party by using code BY in N101.
N103 and N104 are required except when N101 contains code CT, MA or OB.
Required for prepack (packed by store) orders.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N101	**98**	**Entity Identifier Code** Code identifying an organisational entity or a physical location. **BY** Buying Party (Purchaser)	**O**	**ID**	**2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67). **92** Assigned by Buyer or Buyer" s Agent.	**O**	**ID**	**2/2**
N104	**67**	**Identification Code** Code identifying a party This is the location code as defined by N103. The location code may be a formal number, eg: DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution centre, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.	**O**	**AN**	**2/17**

Example: N1*BY**92*5001

HL Hierarchical Level

Level: Detail - Tare

Loop: HL **Repeat:** 200000

Usage: Mandatory

Max Use: 1

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

Comments:

A 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.

B The HL segment defines a top-down/left-right ordered structure.

C 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.

D HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

E 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.

F HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.
HL02 identifies the hierarchical ID of the HL segment which it is subordinate to (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, eg. Shipment, Order, Pack, Subpack and Item.

Required when Pallets or Slip Sheets are used.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the Sender to identify a particular data segment in a hierarchical structure.	**O**	**AN**	**1/12**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O**	**AN**	**1/12**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. **T** Shipping Tare (Pallet or Slip Sheet)	**O**	**ID**	**1/2**

Example: HL*3*2*T

TD5 Carrier Details (Quantity and Weight)

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax:
1 C0102
If TD101 is present, then TD102 is required.
2 C0304
If TD103 is present, then TD104 is required.
3 C060708
If TD106 is present, then TD107 and TD108 are required.

Notes: This segment is used to specify the number and type of shipping containers in the order

Required per Tare.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	**103**	**Packaging Code** Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material. The following combinations are used by the retail industry. See the ASCX12 code values and code definitions below: **BAG76 BAG79 CTN25 CTN31 CTN76** **PLT01 PLT94 SLP25 UNT71** **Part 1** **BAG** Bag **CTN** Carton **PLT** Pallet **SLP** Slip Sheet **UNT** Unit **Part 2** **01** Aluminium **25** Corrugated or Solid **31** Fibre **71** Not Otherwise Specified **76** Paper **79** Plastic **94** Wood	**M AN 5/5**

TD102 **80** **Lading Quantity** **O** **N** **1/7**
Number of units (pieces) of the lading commodity.

Segment: **MAN Marks and Numbers**
Level: Detail - Tare
Loop: HL
Usage: Optional
Max Use: 10
Purpose: To indicate identifying marks and numbers for shipping containers.
Notes: This segment, at the pack level, is used to specify the identification number for the transport package, e.g: carton.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MAN01	**88**	**Marks and number Qualifier** Code specifying the application or source of Marks and numbers (87) **GM** UCC - 128 Serial Shipping Container Code Format (SSCC). **This is the twenty-digit code. The symbology code and the modulo 103 check digit are not included. Consult EAN Aust. for the UCC - 128 Serial Shipping Container Code documentation** **Note that every instance of the SSCC in an ASN must be unique.** **UC** UPC Shipping Container Code (Interleaved 2 of 5) (TUN). **This is the fourteen - digit UPC Shipping Container Code. Consult EAN Aust. for the UPC Shipping Container Code documentation.**	**O ID 2/2**
MAN02	**87**	**Marks and Numbers** Marks and Numbers used to identify a shipment or parts of a shipment.	**O N 14/20**

Example: MAN*GM*00393123450000000013

HL Hierarchical Level

Level: Detail - Pack

Loop: HL **Repeat:** 200000

Usage: Mandatory

Max Use: 1

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

Comments:

A 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.

B The HL segment defines a top-down/left-right ordered structure.

C 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.

D HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

E HL03 indicates the context of the series of segments following the current HL segment up tot he 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 of item level information.

F HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment which it is subordinate to (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, eg: Shipment, Order, Pack, Subpack and Item.

Data Element Summary

REF.	DATA

DES.	ELEMENT	NAME	ATTRIBUTES
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the Sender to identify a particular data segment in a hierarchical structure.	**O AN 1/2**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O AN 1/2**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. **P** Pack	**O D 1/2**

Example: HL*4*3*P

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

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

Syntax:

1 C0203
If PO402 is present, then P0403 required.

2 L050607
If P0405 is present, then at least one of P0406 or P0407 is required.

3 C0809
If P0408 is present, then P0409 is required.

4 L13101112
If P0413 is present, then at least one of P0410, P0411 or P0412 is required.

Comments:

A PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401)/size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356=24;Element 357=`12; Element 355=OZ.

B PO410 defines the unit of measure for PO410, PO411, and PO412.

Notes: In a pick and pack structure, this segment, at the pack level, is only used to specify the carton weight and/or physical dimensions. In a standard carton pack structure, it specifies the quantity of SKU" s within the pack.

PO4 Item Physical Details

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

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

Syntax:

1 C0203
If PO402 is present, then P0403 required.

2 L050607
If P0405 is present, then at least one of P0406 or P0407 is required.

3 C0809
If P0408 is present, then P0409 is required.

4 L13101112
If P0413 is present, then at least one of P0410, P0411 or P0412 is required.

Comments:

A PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401)/size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356=24;Element 357=`12; Element 355=OZ.

B PO410 defines the unit of measure for PO410, PO411, and PO412.

Notes: In a pick and pack structure, this segment, at the pack level, is only used to specify the carton weight and/or physical dimensions. In a standard carton pack structure, it specifies the quantity of SKU" s within the pack.

Optionally used to define number of units and weights and measures of Pick and Pack Packs.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
PO406	**384**	**Gross Weight per Pack** Numeric value of gross weight per pack.	**O**	**N**	**1/9**
PO407	**355**	**Unit of Measurement Code** Code identifying the basic unit of measurement. **KG** Kilogram	**O**	**ID**	**2/2**
P0410	**82**	**Length** Largest horizontal dimension of an object measured when the object in the upright position.	**O**	**N**	**1/9**
P0411	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position.	**O**	**N**	**1/9**
P0412	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position.	**O**	**N**	**1/9**
P0413	**355**	**Unit of Measurement Code** Code identifying the basic unit of measurement. **MR** Metre	**M**	**ID**	**2/2**

Example: PO4******2******MR

MAN Marks and Numbers

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To indicate identifying marks and numbers for shipping containers.

Notes: This segment, at the pack level, is used to specify the identification number for the transport package, eg. carton.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MAN01	**88**	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and numbers (87). **GM** UCC - 128 Serial Shipping Container Code Format (SSCC). **This is the twenty-digit code. The symbology code and the modulo 103 check digit are not included. Consult the UCC for the UCC - 128 Serial Shipping Container Code documentation** **Note that every instance of the SSCC in an ASN must be unique.** **UC** UPC Shipping Container Code (Interleaved 2 of 5) (TUN). **This is the fourteen - digit UPC Shipping Container Code. Consult the UCC for the UPC Shipping Container Code documentation.**	**O ID 2/2**
MAN02	**87**	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment.	**O N 14/20**

Example: MAN*GM*00393123450000000191

HL Hierarchical Level

Level: Detail - Item

Loop: HL **Repeat:** 200000

Usage: Mandatory

Max Use: 1

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

Comments:

A 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.

B The HL segment defines a top-down/left-right ordered structure.

C 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.

D HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

E 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.

F HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Note: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment which it is subordinate to (child of). HL02 will be omitted for the first HL segment of the transaction set, since it has no parent. HL03 indicates the application

context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT segment, eg Shipment, Order, Pack, Subpack and Item.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES

HL01	**628**	**Hierarchical ID Number** A unique number assigned by the Sender to identify a particular data segment in a hierarchical structure.	**M**	**AN**	**1/12**
HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**M**	**AN**	**1/12**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. **I** Item	**M**	**ID**	**1/2**

Example: HL*6*5*I

LIN Item Identification

Level: Detail - Item

Loop: HL

Usage: Mandatory.

Max Use: 1

Purpose: To specify basic item identification data.

Comments:
A See the Data Dictionary for a complete list of ID's.
B LIN01 is the line item identification
C LIN02 through LIN31 provide for fifteen (15) different product/service ID" s for each iten. For Example: Case, Colour, Drawing No., UPC No., ISBN No., Model No., SKU.

Notes: There is one LIN segment for each SKU.
The codes listed for LIN02 apply to every occurrence of data element 235 in the LIN segment.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
LIN02	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234). **EN** European Article Number (EAN) (2-5-5-1)	**M**	**ID**	**2/2**
LIN03	**234**	**Product/Service ID** Identifying number for a product or service. **APN/EAN**	**M**	**N**	**7/13**

Example: LIN**EN*9312345543210

SN1 Item Detail (Shipment)

Level: Detail - Item

Loop: HL

Usage: Mandatory.

Max Use: 1

Purpose: To specify line item detail relative to shipment.

Comments: **A** SN101 is the ship notice line item identification.

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

Notes: This segment is used to specify the quantities associated with the item identified in the preceding LIN segment.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
SN102	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer‟ s shipping units for a line item or transaction set.	**M**	**N**	**1/10**
SN103	**355**	**Unit of Measurement Code** Code identifying the basic unit of measurement. **EA** Each	**M**	**ID**	**2/2**

Example: SN1**10*EA

PO4 Item Physical Detail

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

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

Syntax:

1 C0203
If PO402 is present, then P0403 required.

2 L050607
If P0405 is present, then at least on of P0406 or P0407 is required.

3 C0809
If P0408 is present, then P0409 is required.

4 L13101112
If P0413 is present, then at least one of P0410, P0411 or P0412 is required.

Comments:

A PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401)/size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356=24;Element 357=`12; Element 355=OZ.

B PO410 defines the unit of measure for PO410,PO411, and PO412.

Notes: This segment is used to specify the inner pack of identical SKU‟ s, eg. if the total SKU‟ s in the carton were 72, packed in six inner packs with 12 SKU‟ s per inner pack, P0401 would be
6, P0402 would be 12, and P0403 would contain code EA. This may be used by the buyer to specify packaging requirements or it may be used by the seller to define item packaging variations. If a manufacturer sells the item in a specific pack, eg six to a box, the P0402 would contain 6 and P0403 would contain code EA.

This segment can also be used to specify the weight and/or volume (cube) for the item by using P0406 and P0407, and/or P0408 and P0409.

Optionally used to define weights and measures of Standard Carton Packs.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
PO406	**384**	**Gross Weight per Pack** Numeric value of gross weight per pack.	**O**	**N**	**1/9**
P0407	**355**	**Unit of Measurement Code** Code identifying the basic unit of measurement. **KG** Kilogram	**O**	**ID**	**2/2**
P0410	**82**	**Length** Largest horizontal dimension of an object measured when the object in the upright position.	**O**	**N**	**1/9**
P0411	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position.	**O**	**N**	**1/9**
P0412	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position.	**O**	**N**	**1/9**
P0413	**355**	**Unit of Measurement Code** Code identifying the basic unit of measurement. **MR** Metre	**O**	**ID**	**2/2**

Example: PO4******10KG

CTT Transaction Totals

Level: Summary

Loop: ____

Usage: Mandatory

Max Use: 1

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

Comments: This segment is intended to provide hash totals to validate transaction completeness and correctness

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
CTT01	**354**	**Number of Line Items** Total number of HL Segments in the transaction set.	**M**	**N**	**1/6**

Example: CTT*6

SE Transaction Set Trailer

Level: Summary

Loop: ____

Usage: Mandatory

Max Use: 1

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).

Comments: A SE is the last segment of each transaction set

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
SE01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments.	**M**	**N**	**1/6**
SE02	**329**	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set. **This must be the same number as is in the ST segment (ST02) for the transaction set.**	**M**	**AN**	**4/9**

Example: SE*50*0001

ASN Hierarchical levels

One important aspect of the ASN is the „hierarchical level" concept, that is the structure of the document comprises of various levels. Each level within the ASN groups together related details about a physical shipment. This information is sent at the level to which it logically applies, avoiding redundancy. For example, the *Shipment Level* relates to a bill of lading and contains *Orders*. Each *Order Level* relates to the Retailer" s purchase order and contains *Pallets*. Each *Pallet Level* contains *Cartons* and the *Carton Level* contains *Items*.

Target/Target Country uses five of the six identified hierarchical levels, defined for use within the Retail Industry.
The five levels are briefly explained as follows:

SHIPMENT	Data related to an entire shipment, such as Bill of lading number, quantity, ship to details etc. There is only one Shipment Level in each transaction set
ORDER	Data related to the Sender's Order and the corresponding Receiver's original Purchase Order
TARE	This level is used to identify pallets. When there are no identifiable pallets being used, then this level may be omitted
PACK	This level is used to identify cartons/bags etc, in which the item is shipped. If items are shipped loose stow on pallets, eg brooms, then the pack level will be omitted
ITEM	This level is used to identify shipped products, ie SKU's and quantities shipped

The hierarchical structure of the ASN illustrates the sequence in which the levels will appear.
There are two distinct hierarchical structures specified for use with the Retail Industry:

PICK AND PACK
STANDARD CARTON PACK

Each structure contains the same levels, ie *shipment, order, tare, pack* and *item* and the usage of these segments within each level are the same. There are two differences in the sequence in which the levels may appear within the transaction set:

Where the item level appears, in relation to the pack level within the structure.
The use of the Hierarchical Child Code (HL04) within the HL segment. This code within the HL segment is required for the Standard Carton Pack Structure. This informs the receiver, after reading the first HL segment, of the structure of the transaction set. Conversely, it is not used for the Pick and Pack Structure. Therefore, the presence or absence of HL04 will indicate the structure represented within the transaction set.

The structure of the ASN is based upon the type of purchase order received and how Suppliers ship their products to Target's DC.

Pick and Pack structure

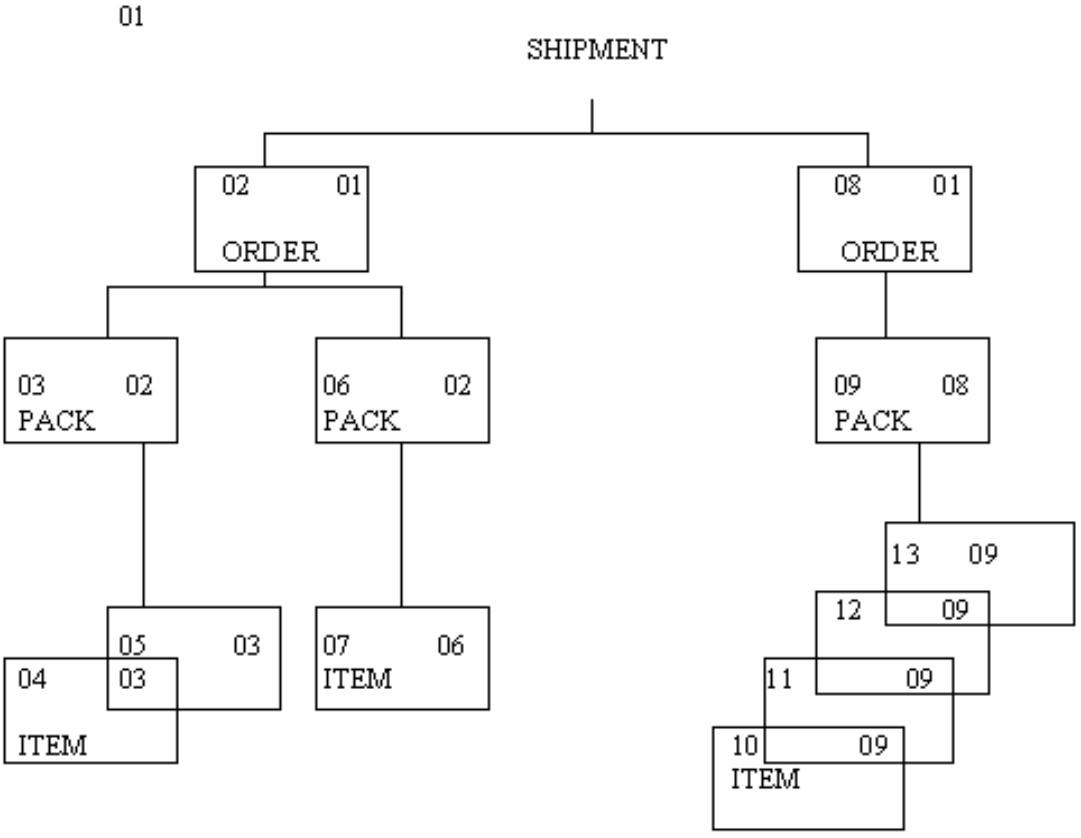
This structure is used when Suppliers receive Prepack orders and are therefore required to pack by Store and deliver to the DC. The sequence of the hierarchical levels is:

- Shipment Level
- Order Level
- Tare Level
- Pack Level
- Item Level

Within the Pick and Pack structure the item level is the lowest level, ie the specification of the SKU is always within the shipping container (Tare or Pack level).

Pick and Pack structure example

In this Pick and Pack Structure example the shipment contains two Orders. The first order has two cartons. The first carton contains two items (SKU‟ s), the second carton contains one SKU.
The second order contains one carton with four SKU‟ s in the carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).



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Standard carton pack structure

This structure is used when Suppliers receive Bulk orders and are therefore required to pack in Bulk and deliver to the DC. The sequence of the hierarchical levels is:

- Shipment Level
- Order Level
- Item Level
- Tare Level
- Pack Level

Within the Standard Carton Pack structure the item level is between the Order level and Tare level, ie the specification of the shipment containers is always within SKU. Once the SKU is specified, then all the shipping containers for the SKUs are identified.

Standard carton pack structure

In this example the shipment contains two orders.

The first order has three cartons. All cartons contain the same SKU.

The second order contains three cartons with a unique SKU in each carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).

No example available.