3M EDI ANSI 4010 X12 856 Advance Ship Notice

Introduction

The purpose of this document is to explain the process of sending the Advance Ship Notice (ASN) to one of 3M's customers. The primary purpose of the ASN is to provide our customer with an electronic copy of a supplier's Bill of Lading or Packing Slip so we can send shipments as efficiently and accurately as possible.

The ANSI X12 version presented in this guideline is 004010. 3M EDI 856 supports only this standard guideline/map, thus will not be able to accommodate any customer specific requirements.

Key Points

- Each ASN is represented by a unique ASN number for each shipment. We prefer to combine multiple purchase orders within a single ASN or shipment, however if customer requirement is to send separate ASN for each unique PO, we can do that as well.
- Each ASN must pertain to only one DC.
- All backorders / resends can be issued with unique ASN Number
- The ASN number(s) is clearly stated on the Bill of Lading or Packing Slips.
- All ASN's should be acknowledged within 24 hours of their receipt with a 997 Functional Acknowledgement.
- Customer will be receiving Delivery Number not Invoice Number in REF02 at Order Level.   3M will not have an invoice number at the time of shipment.
- If a customer would like 3M to provide Country of Origin for an item in the Shipment, 3M will be able to pass in in the LIN10 and LIN11 with "CH" qualifiers with appropriate notes in the Shipment level REF03 with REF01 qualifier of L1.

SSCC Labeling Requirements

Following are some of the more common shipment scenarios and how 3M will send the SSCC labels. SSCC labels are only sent from Label capable ship from locations for pallets, cartons on pallet, loose cartons, a carton with multiple items on it and small parcel shipments. In case any of 3M's customer does not require ASN without label, we can restrict them no to send to the customers.

ASN Structure

3M supports below ASN structures:

SOTI - Shipment, Order, Tare, Item

SOPI - Shipment, Order, Package, Item

SOI - Shipment, Order, Item

Our preference is to send the SOTI structure with one ASN per Shipment having pallet labeling. Each ASN should pertain to one destination and one vendor number and can contain multiple purchase orders.

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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
001	ISA	Interchange Control Header	M	1			Mandatory
002	GS	Functional Group Header	M	1			Mandatory
010	ST	Transaction Set Header	M	1			Mandatory
020	BSN	Beginning Segment for Ship Notice - at Header Level	M	1			Mandatory

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					1		
010	HL	Hierarchical Level - SHIPMENT DETAIL	M	1			Mandatory
110	TD1	Carrier Details (Quantity and Weight) - at Shipment Level	O	5			Optional
120	TD5	Carrier Details (Routing Sequence/Transit Time) - at Shipment Level	O	1			Mandatory
130	TD3	Carrier Details (Equipment) - at Shipment Level	O	1			Optional
150	REF	Reference Identification - at Shipment Level	O	1			Optional
200	DTM	Date/Time Reference - at Shipment Level	O	1			Mandatory
LOOP ID - N1					1		
220	N1	Name - Ship From - at Shipment Level	O	1			Mandatory
240	N3	Address Information - at Shipment Level	O	1			Optional
250	N4	Geographic Location - at Shipment Level	O	1			Optional
LOOP ID - HL					1		
010	HL	Hierarchical Level - ORDER DETAIL	M	1			Mandatory
050	PRF	Purchase Order Reference - at Order Level	M	1			Mandatory
150	REF	Reference Identification - at Order Level	M	3			Mandatory
LOOP ID - HL					200000		
010	HL	Hierarchical Level - TARE (PALLET) DETAIL	M	1			Conditional

190	MAN	Marks and Numbers for Tare (Pallet) Level	O	1			Conditional

LOOP ID - HL					**200000**		
010	HL	Hierarchical Level - ITEM DETAIL	M	1			Mandatory
020	LIN	Item Identification - at Item Level	M	1			Mandatory
030	SN1	Item Detail (Shipment) - at Item Level	O	1			Mandatory
070	PID	Product/Service Description	O	200			

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	O	1			Mandatory
020	SE	Transaction Set Trailer	M	1			Mandatory

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
021	GE	Functional Group Trailer	M	1			Mandatory
022	IEA	Interchange Control Trailer	M	1			Mandatory

Transaction Set Notes

1. 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.

Transaction Set Comments

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

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ISA Interchange Control Header

Pos: 001	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 16**

User Option (Usage): Mandatory

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Mandatory

Description: Code to identify the type of information in the Authorization Information

Code	Name
00	No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA02	I02	**Authorization Information**	M	AN	10/10	Mandatory

Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

Element User Note: This element should be filled with spaces

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Mandatory

Description: Code to identify the type of information in the Security Information

Code	Name
00	No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA04	I04	**Security Information**	M	AN	10/10	Mandatory

Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Mandatory

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified
All valid X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Mandatory

Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Mandatory

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Mandatory

Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA09	I08	**Interchange Date**	M	DT	6/6	Mandatory

Description: Date of the interchange

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA10	I09	**Interchange Time**	M	TM	4/4	Mandatory

Description: Time of the interchange

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Mandatory

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Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

All valid X12 codes are used.

ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Mandatory

Description: This version number covers the interchange control segments

Code	Name
00400	Standard Issued as ANSI X12

ISA13	I12	**Interchange Control Number**	M	N0	9/9	Mandatory

Description: A control number assigned by the interchange sender

Element User Note:

ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Mandatory

Description: Code sent by the sender to request an interchange acknowledgment (TA1)

Code	Name
0	No Acknowledgment Requested

ISA15	I14	**Usage Indicator**	M	ID	Mandatory	1/1

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information

Code	Name
P	Production Data
T	Test Data

ISA16	I15	**Component Element Separator**	M		1/1	Mandatory

Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

Segment User Example:

ISA}00}   }00}   }01}006173082   }14}072271711HDP }240216}2047}|}00406}000032915}0}P}>~

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GS Functional Group Header

Pos: 002	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 8**

User Option (Usage): Mandatory

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Mandatory

Description: Code identifying a group of application related transaction sets

Code	Name
SH	Ship Notice/Manifest (856)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Mandatory

Description: Code identifying party sending transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS03	124	**Application Receiver's Code**	M	AN	2/15	Mandatory

Description: Code identifying party receiving transmission. Codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	Mandatory

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS05	337	**Time**	M	TM	4/8	Mandatory

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
GS06	28	**Group Control Number**	M	N0	1/9	Mandatory

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS07	455	**Responsible Agency Code**	M	ID	1/2	Mandatory

Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard

Code	Name
X	Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Mandatory

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board

through October 1997

Segment User Example:

GS}SH}006173082}072271711HDP}20240216}2047}19347}X}004060~

ST

Transaction Set Header

Pos: 010	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Mandatory

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

Element Summary:

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

Code	Name
856	Ship Notice/Manifest

Description: Assigned number originated and maintained by the sender

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

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

Element User Note:

Segment User Note:

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

Segment User Example:

ST}856}24667~

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Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	**Elements: 5**

BSN Beginning Segment for Ship Notice - at Header Level

User Option (Usage): Mandatory

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

Element Summary:

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

Description: Assigned number originated and maintained by the sender

Code	Name
00	Original
05	Replace
06	Confirmation (Drop Ship)

Element User Note - "05" will only be used for resending ASN

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

Description: A unique control number assigned by the original shipper to identify a specific shipment

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

Description: Date expressed as CCYYMMDD

Element User Note: This is the date the ASN was created.

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

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)

Element User Note: The time the ASN was created, expressed in four digits as HHMM.

Segment User Note:

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

Segment User Example:

BSN}14}8089022564}20240216}2034~

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HL
DETAIL

Hierarchical Level - SHIPMENT

Pos: 010	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 2**

User Option (Usage): Mandatory

Purpose: It is used to identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Mandatory
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Mandatory
		Description: Code defining the characteristic of a level in a hierarchical structure				

Code	Name
S	Shipment

Segment User Note:

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.
   The HL segment defines a top-down/left-right ordered structure.
2. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Segment User Example:

Detail ASN With GS1-128 Labeling at Pallet Level:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}T   (first pallet linked to order level)
HL}4}3}I   (item linked to first pallet)
HL}5}2}T   (second pallet linked to order level)
HL}6}5}I   (item linked to second pallet)
HL}7}5}I   (item linked to second pallet)

Summary ASN Without GS1-128 Labeling:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}I   (item linked to order level)

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Pos: 110	**Max: 5**
Detail - Optional	
Loop: HL	**Elements: 5**

TD1 Carrier Details (Quantity and Weight) - at Shipment Level

User Option (Usage): Mandatory

Purpose: It is used to specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	O	AN	3/5	Mandatory

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

Code	Name
CTN25	Carton Corrugated or Solid
PLT	Pallet

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD102	80	**Lading Quantity**	C	N0	1/7	Mandatory

Description: Number of units (pieces) of the lading commodity

TD106	187	**Weight Qualifier**	O	ID	1/2	Optional

Description: Code defining the type of weight

Code	Name
G	Gross Weight

TD107	81	**Weight**	C	ID	1/10	Conditional

Description: Numeric value of weight

TD108	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Conditional

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

Code	Name
LB	Pound

Segment User Note:

1. If TD101 is present, then TD102 is required.
2. If TD103 is present, then TD104 is required.
3. If TD106 is present, then TD107 is required.
4. If either TD107 or TD108 is present, then the other is required.
5. If either TD109 or TD110 is present, then the other is required.

Segment User Example:

TD1}CTN}36}}}}G}83}LB~

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TD5   Carrier Details (Routing Sequence/Transit Time) - at Shipment Level

Pos: 120	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 4**

User Option (Usage): Mandatory

Purpose: It is used to specify the carrier and sequence of routing and provide transit time information.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier**	O	ID	1/2	Optional

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

Code	Name
2	Standard Carrier Alpha Code (SCAC)
91	Assigned by Seller or Seller's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	67	**Identification Code**	C	AN	2/80	Conditional

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD504	91	**Transportation Method/Type Code**	C	ID	1/2	Conditional

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

Code	Name
A	Air
AE	Air Express
CE	Customer Pickup/ Customer's Expense
L	Contact Carrier
LT	Less Than Trailer Load
M	Motor (Common Carrier)
PG	Pooled Piggyback (Outbound shipment consisting of a trailer on a railcar from a consolidation point to a final destination via rail move)
R	Rail
S	Ocean
U	Private Parcel Service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD505	387	**Routing**	C	AN	1/35	Conditional

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

Segment User Note:

1. At least one of TD502 TD504 TD505 TD506 or TD512 is required.
2. If TD502 is present, then TD503 is required.

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.

Segment User Example:

TD5}}2}SEFL}}SOUTHEASTERN FREIGHT LINES INC~

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<table>
<tr><td colspan="2">**Pos: 130**   **Max: 1**</td></tr>
<tr><td colspan="2" align="center">**Detail - Optional**</td></tr>
<tr><td>**Loop: HL**</td><td>**Elements: 3**</td></tr>
</table>

TD3   Carrier Details (Equipment) - at Shipment Level

User Option (Usage): Optional

Purpose: It is used to specify transportation details relating to the equipment used by the carrier. If you are sending the ASN for a consignment purchase order, this segment is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD301	40	**Equipment Description Code**	C	ID	2/2	Conditional

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

Code	Name
TL	Trailer (not otherwise specified

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD302	206	**Equipment Initial**	O	AN	1/4	Optional

Description: Prefix or alphabetic part of an equipment unit's identifying number

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

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

Segment User Notes:

1. Only one of TD301 or TD310 may be present.
2. If TD302 is present, then TD303 is required.
3. If TD304 is present, then TD305 is required.
4. If either TD305 or TD306 is present, then the other is required.

Segment User Example:

TD3}TL}}650137036

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

REF   Reference Identification - at Shipment Level

User Option (Usage): Optional

Purpose: It is used to specify identifying information.

Element Summary:

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

Description: Code qualifying the Reference Identification

Code	Name
CN	Carrier's Reference Number (PRO/Invoice)
BM	Bill of Landing number
L1	Letter or Notes

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Conditional

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

Segment User Notes:

1. At least one of REF02 or REF03 is required.
2. If either C04003 or C04004 is present, then the other is required.
3. If either C04005 or C04006 is present, then the other is required.
4. REF04 contains data relating to the value cited in REF02.

Segment User Example:

REF}BM}FPNA914992~

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Pos: 200	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 2**

DTM   Date/Time Reference - at Shipment Level

User Option (Usage): Mandatory

Purpose: It is used to specify pertinent ship dates and times.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Mandatory

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

Code	Name
011	Shipped
017	Estimated Delivery
067	Current Schedule Delivery

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

Description: Date expressed as CCYYMMDD

Segment User Notes:

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

Segment User Example:

DTM}011}20240216~

N1 Level

Name - Ship From - at Shipment

Pos: 220	**Max: 1**
Detail - Mandatory	
Loop: N1	**Elements: 4**

User Option (Usage): Mandatory

Purpose: It is used to identify a party by type of organization, name, and code.

Element Summary:

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

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

Code	Name
SF	Ship From
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	C	AN	1/60	Conditional

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	C	ID	1/2	Conditional

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**	C	AN	2/80	Conditional

Description: Code identifying a party or other code

Segment User Note:

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

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

Segment User Example:

N1}ST}SUPPLYWORKS ATLANTA}92}006~

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Pos: 240	**Max: 1**
Detail - Optional	
Loop: N1	**Elements: 1**

N3   Address Information - at Shipment Level

User Option (Usage): Optional

Purpose: It is used to specify the location of the named party.

Element Summary:

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

Segment User Note:

Segment User Example:

N3}1532 North Main Street

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

N4 Geographic Location - at Shipment Level

User Option (Usage): Optional

Purpose: It is used to specify the geographic place of the named party.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Optional
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	0/2	Optional
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	O	ID	0/15	Optional
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	ID	2/3	Optional
		Description: Code identifying the country				

Segment User Note:

1. If N406 is present, then N405 is required.
2. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
3. N402 is required only if city name (N401) is in the U.S. or Canada.

Segment User Example:

N4}DORAVILLE}GA}303403168}US~

3M | Information Technology

HL
DETAIL
Hierarchical Level - ORDER

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Mandatory

Purpose: It is used to identify dependencies among and the content of hierarchically related groups of data segments.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Mandatory
		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	Mandatory
		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	Mandatory
		Description: Code defining the characteristic of a level in a hierarchical structure				

Code	Name
O	Order

Segment User Note:

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

Segment User Example:

Detail ASN With GS1-128 Labeling at Pallet Level:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}T   (first pallet linked to order level)
HL}4}3}I   (item linked to first pallet)
HL}5}2}T   (second pallet linked to order level)
HL}6}5}I   (item linked to second pallet)
HL}7}5}I   (item linked to second pallet)

Summary ASN Without GS1-128 Labeling:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}I   (item linked to order level)

3M | Information Technology

<table>
<tr><td colspan="2">Pos: 050   Max: 1</td></tr>
<tr><td colspan="2" align="center">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 2</td></tr>
</table>

PRF   Purchase Order Reference - at Order Level

User Option (Usage): Mandatory

Purpose: It is used to provide reference to a specific purchase order.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	324	**Purchase Order Number**	M	AN	1/22	Mandatory
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
PRF04	373	**Date**	O	DT	8/8	Optional
		Description: Date expressed as CCYYMMDD				

Segment User Note:

1. PRF04 is the date assigned by the purchaser to purchase order.

Segment User Example:

PRF}007768755}}}20240213~

3M | Information Technology

	Pos: 150	Max: 3
	Detail - Mandatory	
	Loop: HL	**Elements: 2**

REF
Level

Reference Identification - at Order

User Option (Usage): Mandatory

Purpose: It is used to specify identifying information.

Element Summary:

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

Description: Code qualifying the Reference Identification

Code	Name
IA	Internal Vendor Number
IV	Seller's Invoice Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Conditional

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

Segment User Note:

1. At least one of REF02 or REF03 is required.
2. If either C04003 or C04004 is present, then the other is required.
3. If either C04005 or C04006 is present, then the other is required.
4. REF04 contains data relating to the value cited in REF02.

Segment User Example:

REF}BM}FPNA914992~

3M Information Technology

Pos: 010	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 3**

HL   Hierarchical Level - TARE (PALLET) DETAIL

User Option (Usage): Conditional

Purpose: It is used to identify dependencies among and the content of hierarchically related groups of data segments.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Mandatory
		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	Optional
		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	Mandatory
		Description: Code defining the characteristic of a level in a hierarchical structure				

Code	Name
T	Shipping Tare
P	Pack

Segment User Notes:

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

Segment User Example:

Detail ASN With GS1-128 Labeling at Pallet Level:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}T   (first pallet linked to order level)
HL}4}3}I   (item linked to first pallet)
HL}5}2}T   (second pallet linked to order level)
HL}6}5}I   (item linked to second pallet)
HL}7}5}I   (item linked to second pallet)

Summary ASN Without GS1-128 Labeling:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}I   (item linked to order level)

3M | **Information Technology**

<table>
<tr><td>Pos: 190</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 2</td></tr>
</table>

MAN   Marks and Numbers for Tare (Pallet) Level

User Option (Usage): Optional

Purpose: It is used to indicate identifying marks and numbers for shipping containers.

Element Summary:

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

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

Code	Name
GM	SSCC-18 and Application Identifier
CP	Carrier-Assigned Package ID Number

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

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

Segment User Note:

1. If either MAN04 or MAN05 is present, then the other is required.
2. If MAN06 is present, then MAN05 is required.
3. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
4. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
5. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
6. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
7. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
8. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Segment User Example:

MAN}GM}000000000000000000~

3M | Information Technology

HL — Hierarchical Level - ITEM DETAIL

Pos: 010	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 3**

User Option (Usage): Mandatory

Purpose: It is used to identify dependencies among and the content of hierarchically related groups of data segments.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Mandatory
		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	Mandatory
		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	Mandatory
		Description: Code defining the characteristic of a level in a hierarchical structure				

Code	Name
I	Item

Segment User Note:

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

Segment User Example:

Detail ASN With GS1-128 Labeling at Pallet Level:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}T   (first pallet linked to order level)
HL}4}3}I   (item linked to first pallet)
HL}5}2}T   (second pallet linked to order level)
HL}6}5}I   (item linked to second pallet)
HL}7}5}I   (item linked to second pallet)

Summary ASN Without GS1-128 Labeling:
HL}1}}S   (shipment)
HL}2}1}O   (order)
HL}3}2}I   (item linked to order level)

3M | Information Technology

LIN

Item Identification - at Item Level

Pos: 020	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 7**

User Option (Usage): Mandatory

Purpose: This segment is Mandatory for Both Detail ASNs and Summary ASNs. It is used to specify basic item identification data.

Element Summary:

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

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	Mandatory

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

Code	Name
BP	Buyer's Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1, 14-digit bar code)
UP	U.P.C. Consumer Package Code (1-5-5-1, 12-digit bar code)
VP	Vendor's (Seller's) Part Number
CH	County of Origin

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

Description: Identifying number for a product or service

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

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

Code	Name
BP	Buyer's Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1, 14-digit bar code)
UP	U.P.C. Consumer Package Code (1-5-5-1, 12-digit bar code)
VP	Vendor's (Seller's) Part Number
CH	County of Origin

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

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

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

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

Code	Name
BP	Buyer's Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1, 14-digit bar code)
UP	U.P.C. Consumer Package Code (1-5-5-1, 12-digit bar code)
VP	Vendor's (Seller's) Part Number
CH	County of Origin

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

Description: Identifying number for a product or service

| LIN08 | 235 | **Product/Service ID Qualifier** | C | ID | 2/2 |

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

Code	Name
BP	Buyer's Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1, 14-digit bar code)
UP	U.P.C. Consumer Package Code (1-5-5-1, 12-digit bar code)
VP	Vendor's (Seller's) Part Number
CH	County of Origin

| LIN09 | 234 | **Product/Service ID** | C | AN | 1/48 |

Description: Identifying number for a product or service

| LIN10 | 235 | **Product/Service ID Qualifier** | C | ID | 2/2 |

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

Code	Name
BP	Buyer's Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1, 14-digit bar code)
UP	U.P.C. Consumer Package Code (1-5-5-1, 12-digit bar code)
VP	Vendor's (Seller's) Part Number
CH	County of Origin

| LIN11 | 234 | **Product/Service ID** | C | AN | 1/48 |

Description: Identifying number for a product or service

Segment User Note:

1. If either LIN04 or LIN05 is present, then the other is required.
2. If either LIN06 or LIN07 is present, then the other is required.
3. If either LIN08 or LIN09 is present, then the other is required.
4. If either LIN10 or LIN11 is present, then the other is required.
5. LIN01 is the line item identification.

Segment User Example:

LIN}0001}VP}59258}UK}103103}UP}048011592589~

3M | Information Technology

SN1 Level

Item Detail (Shipment) - at Item

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Mandatory

Purpose: It is used to specify line-item detail relative to shipment.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	**Assigned Identification**	O	AN	1/20	Optional
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SN102	382	**Number of Units Shipped**	M	R	1/10	Mandatory
		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	Mandatory
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		All valid X12 codes are used.				

Segment User Notes:

1. If either SN105 or SN106 is present, then the other is required.

Semantic Notes:

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

Comments:

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

Segment User Example:

SN1}0001}3}CA~

PID

Product/Item Description

Pos: 070	**Max: 200**
Detail - Mandatory	
Loop: HL	**Elements: 2**

User Option (Usage): Optional

Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type**	M	ID	1/1	Mandatory

Description: Code indicating the format of a description

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	C	AN	1/80	Conditional

Description: A free-form description to clarify the related data elements and their content

Segment User Notes:

1. If PID04 is present, then PID03 is required.
2. At least one of PID04 or PID05 is required.
3. If PID07 is present, then PID03 is required.
4. If PID08 is present, then PID04 is required.
5. If PID09 is present, then PID05 is required.

Semantic Notes:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Segment User Example:

PID}F}}}}5100 RED BUFFER PAD 20IN X 14IN 10/CS~

3M | Information Technology

CTT   Transaction Totals

Pos: 010	**Max: 1**
Summary - Optional	
Loop: N/A	**Elements: 2**

User Option (Usage): Mandatory

Purpose:. It is used to transmit a hash total for a specific element in the transaction set.

Element Summary:

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

Description: Total number of HL segments in the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT02	347	**Hash Total**	O	R	1/10	Optional

Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Segment User Notes:

1. If either CTT03 or CTT04 is present, then the other is required.
2. If either CTT05 or CTT06 is present, then the other is required.

Comments:

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

Segment User Example:

CTT}14}54~

SE

Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Element Summary:

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

Segment User Note:

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

Segment User Example:

SE}59}24667~

GE Functional Group Trailer

Pos: 021	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Mandatory

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Mandatory

Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE02	28	**Group Control Number**	M	N0	1/9	Mandatory

Description: Assigned number originated and maintained by the sender

Segment User Example:

GE}1}19347~

3M Information Technology

IEA   Interchange Control Trailer

Pos: 022	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Mandatory

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Mandatory

Description: A control number assigned by the interchange sender

Segment User Note:

Segment User Example:

IEA}1}000000001

EXAMPLE:

SOPI – ASN with Carton label with/without pallet

ISA}00}3M COMPANY}00}3M COMPANY}01}3MID   }01}CUSTOMERID }200428}1521}U}00401}000028915}0}P}{~

GS}SH}3MID}CUSTOMERID}20200428}1521}23014}X}004010~

ST}856}23012~

BSN}00}012345612}20200428}1518~

HL}1}}S~

TD1}CTN25}2}}}}G}16}LB~

TD5}}2}RYLC~

REF}BM}BOL12345~

REF}CN}TRACKID~

DTM}011}20200428~

DTM}067}20200511~

N1}SF}3M COMPANY}92}123789~

N3}STREET ADDRESS~

N4}CITY}MN}12345}US~

N1}ST}SHIPTO NAME}92}9999~

N3}STREET ADDRESS~

N4}CITY}NY}99999}US~

HL}2}1}O~

PRF}11111199~

HL}3}2}P~

MAN}GM}00132456789123456789~

HL}4}3}I~

LIN}89}VP}7100075944}IN}13333}UP}051111551888~

SN1}}1}EA~

PID}F}}}}

HL}5}2}P~

MAN}GM}00987654321987654321~

HL}6}5}I~

LIN}90}VP}7100143546}IN}14444}UP}051111551999~

SN1}}4}BX~

CTT}5~

SE}29}23012~

GE}1}23014~

IEA}1}000028915~

EXAMPLE:

SOI – ASN without labels

ISA}00}3M COMPANY}00}3M
COMPANY}01}3MID}01}CUSTOMERID}200428}1521}U}00401}000028915}0}P}{~

GS}SH}3MID}CUSTOMERID}20200428}1521}23014}X}004010~

ST}856}23012~

BSN}00}012345612}20200428}1518~

HL}1}}S~

TD1}CTN25}2}}}}G}16}LB~

TD5}2}RYLC~

TD3}TL}}650137036

REF}BM}BOL12345~

REF}CN}TRACKID~

DTM}011}20200428~

DTM}067}20200511~

N1}SF}3M COMPANY}92}123789~

N3}1532 North Main Street

N4}DORAVILLE}GA}303403168}US~

N1}ST}SUPPLYWORKS ATLANTA}92}006~

N3}1245 Market Street~

N4}Atlanta}GA}99999}US~

HL}2}1}O~

PRF}11111199~

REF}BM}FPNA914992~

HL}3}2}T

MAN}GM}45356

HL}4}3}I~

LIN}89}VP}7100075944}BP}13333}UP}051111551888~

SN1}}1}EA~

HL}5}2}I~

LIN}90}VP}7100143546}IN}14444}UP}051111551999~

SN1}}4}BX~

CTT}4~

SE}29}23012~

GE}1}23014~

IEA}1}000028915~

EXAMPLE:

SOTI – ASN with Pallet label

ISA}00}3M COMPANY}00}3M
COMPANY}01}3MID   }01}CUSTOMERID   }200428}1521}U}00401}000028915}0}P}{~

GS}SH}3MID}CUSTOMERID}20200428}1521}23014}X}004010~

ST}856}23012~

BSN}00}012345612}20200428}1518~

HL}1}}S~

TD1}CTN25}10}}}}G}100}LB~

TD5}}2}RYLC~

REF}BM}BOL12345~

REF}CN}TRACKID~

DTM}011}20200428~

DTM}017}20200511~

DTM}067}20200511~

N1}SF}3M COMPANY}92}123789~

N3}STREET ADDRESS~

N4}CITY}MN}12345}US~

N1}ST}SHIPTO NAME}92}9999~

N3}STREET ADDRESS~

N4}CITY}NY}99999}US~

HL}2}1}O~

PRF}11111199~

HL}3}2}T~

MAN}GM}00132456789123456788~

HL}4}3}I~

LIN}89}VP}7100075944}BP}13333}UP}051111551888~

SN1}}1}EA~

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