**Transaction Set**

**856**

**Planning Schedule**

**X12 Version 006 Release 001**

**February 2024**

 **Revision History**

|  |  |
| --- | --- |
| **Date** | **Description** |
| February 2020 | Published |
| February 2024 | Update to LIN segment to include PO-Release-Line element |
|  |  |
|  |  |

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| --- | --- |
| **856** | **Ship Notice/Manifest** |
|  |  **Functional Group=SH** |

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.

## Segments:

|  | Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10 | ISA | Interchange Control Header | M | 1 |  |  | Used |  |  |  |  |  |  |  |  |  |  |
|  | 20 | GS | Functional Group Header | M | 1 |  |  | Used |  |  |  |  |  |  |  |  |  |  |

## Heading:

|  | Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 030 | ST | Transaction Set Header | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 040 | BSN | Beginning Segment for Ship Notice | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 050 | DTM | Date/Time Reference | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |

## Detail:

|  | Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  LOOP ID – HL – Shipment |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 100 | HL | Shipment Hierarchical Level | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 110 | TD1 | Carrier Details (Quantity and Weight) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 120 | TD5 | Carrier Details (SCAC) | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 130 | TD3 | Carrier Details (Equipment) | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 140 | REF | BOL Number | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  LOOP ID - N1 – Order Plant |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 150 | N1 | Nifco Ordering Plant | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  LOOP ID - N1 – Ship To |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 160 | N1 | Ship To Location Code | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  LOOP ID - N1 – Ship From |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 170 | N1 | Ship From Supplier Location | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  LOOP ID – HL – Tare |  |  | 200000 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 180 | HL | Tare/Pallet Hierarchical Level | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 190 | LIN | Tare/Pallet Identification | M | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 200 | REF | Reference Identification | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  LOOP ID – HL – Item |  |  | 200000 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 210 | HL | Item Hierarchical Level | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 220 | LIN | Item Identification | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 230 | SN1 | Item Detail (Shipment) | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 240 | REF | Container Label S/N | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |

## Summary:

|  | Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 250 | CTT | Transaction Totals | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 260 | SE | Transaction Set Trailer | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |

## Segments:

|  | Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 270 | GE | Functional Group Trailer | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |
|  | 280 | IEA | Interchange Control Trailer | M | 1 |  |  | Must use |  |  |  |  |  |  |  |  |  |  |

Notes:

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

Comments:

|  |  |  |
| --- | --- | --- |
| ISA | Interchange Control Header | Pos: 010 Max: 1 - MandatoryLoop: N/A Elements: 16 |

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****Description:** Code to identify the type of information in the Authorization Information. **Code Name** **00 No Authorization Information Present (No Meaningful Information in I02)**. | **M** | **ID** | **2/2** | **Must use** |  |
|  | **ISA02** | **I02** | **Authorization Information****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). | **M** | **AN** | **10/10** | **Must use** |  |
|  | **ISA03** | **I03** | **Security Information Qualifier****Description:** Code to identify the type of information in the Security Information. **Code Name** **00 No Security Information Present (No Meaningful Information in I04).** | **M** | **ID** | **2/2** | **Must use** |  |
|  | **ISA04** | **I04** | **Security Information****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). | **M** | **AN** | **10/10** | **Must use** |  |
|  | **ISA05** | **I05** | **Interchange ID Qualifier****Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. **Code Name** **01 Duns (Dun & Bradstreet)** **12 Phone (Telephone Companies)** **ZZ Mutually Defined** | **M** | **ID** | **2/2** | **Must use** |  |
|  | **ISA06** | **I06** | **Interchange Sender ID****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.**Place your sender ID here** | **M** | **AN** | **15/15** | **Must use** |  |
|  | **ISA07** | **I05** | **Interchange ID Qualifier****Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. **Code Name** **12 Phone (Telephone Companies)**. | **M** | **ID** | **2/2** | **Must use** |  |
|  | **ISA08** | **I07** | **Interchange Receiver ID****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.**6148363808** | **M** | **AN** | **15/15** | **Must use** |  |
|  | **ISA09** | **I08** | **Interchange Date****Description:** Date of the interchange.**(YYMMDD)** | **M** | **DT** | **6/6** | **Must use** |  |
|  | **ISA10** | **I09** | **Interchange Time****Description:** Time of the interchange.**(HHMM)** | **M** | **TM** | **4/4** | **Must use** |  |
|  | **ISA11** | **I10** | **Interchange Control Standards Identifier****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 standard codes are used.** | **M** | **ID** | **1/1** | **Must use** |  |
|  | **ISA12** | **I11** | **Interchange Control Version Number****Description:** This version number covers the interchange control segments. **Code Name** **00400 Standard Issued as ANSI X12.2-1998** | **M** | **ID** | **5/5** | **Must use** |  |
|  | **ISA13** | **I12** | **Interchange Control Number****Description:** A control number assigned by the interchange sender. | **M** | **N0** | **9/9** | **Must use** |  |
|  | **ISA14** | **I13** | **Acknowledgment Requested****Description:** Code sent by the sender to request an interchange acknowledgment (TA1). **Code Name** **0 No Acknowledgment Requested**. | **M** | **ID** | **1/1** | **Must use** |  |
|  | **ISA15** | **I14** | **Usage Indicator****Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information. **Code Name** **P Production Data** **T Test Data** | **M** | **ID** | **1/1** | **Must use** |  |
|  | **ISA16** | **I15** | **Component Element Separator****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. | **M** |  | **1/1** | **Must use** |  |

 ISA\*00\* \*00\* \*12\*3308495000 \*12\*6148363808 \*030926\*1325\*U\*00400\*000007556\*0\*P\*^~

|  |  |  |
| --- | --- | --- |
| GS | Functional Group Header | Pos: 020 Max: 1 - MandatoryLoop: N/A Elements: 8 |

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****Description:** Code identifying a group of application related transaction sets. **Code Name** **SH Ship Notice/Manifest (856)**. | **M** | **ID** | **2/2** | **Must use** |  |
|  | **GS02** | **142** | **Application Sender's Code****Description:** Code identifying party sending transmission: codes agreed to by trading partners.**Place your Sender ID here.** | **M** | **AN** | **2/15** | **Must use** |  |
|  | **GS03** | **124** | **Application Receiver's Code****Description:** Code identifying party receiving transmission. Codes agreed to by trading partners.**6148363808** | **M** | **AN** | **2/15** | **Must use** |  |
|  | **GS04** | **373** | **Date****Description:** Date expressed as CCYYMMDD. | **M** | **DT** | **8/8** | **Must use** |  |
|  | **GS05** | **337** | **Time****Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99). | **M** | **TM** | **4/8** | **Must use** |  |
|  | **GS06** | **28** | **Group Control Number****Description:** Assigned number originated and maintained by the sender. | **M** | **N0** | **1/9** | **Must use** |  |
|  | **GS07** | **455** | **Responsible Agency Code****Description:** Code used in conjunction with Data Element 480 to identify the issuer of the standard. **Code Name** **X Accredited Standards Committee X12**. | **M** | **ID** | **1/2** | **Must use** |  |
|  | **GS08** | **480** | **Version / Release / Industry Identifier Code****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**. | **M** | **AN** | **1/12** | **Must use** |  |

 GS\*SH\*3308495000\*6148363808\*20030926\*1325\*7556\*X\*004010~

Semantics:

1. GS04 is the group date.

2. GS05 is the group time.

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

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

|  |  |  |
| --- | --- | --- |
| ST | Transaction Set Header | Pos: 030 Max: 1Heading - MandatoryLoop: N/A Elements: 2 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ST01** | **143** | **Transaction Set Identifier Code****Description:** Code uniquely identifying a Transaction Set. **Code Name** **856 Ship Notice/Manifest**. | **M** | **ID** | **3/3** | **Must use** |  |
|  | **ST02** | **329** | **Transaction Set Control Number****Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. | **M** | **AN** | **4/9** | **Must use** |  |

 ST\*856\*7556001~

Semantics:

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

|  |  |  |
| --- | --- | --- |
| BSN | Beginning Segment for Ship Notice | Pos: 040 Max: 1Heading - MandatoryLoop: N/A Elements: 4 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **BSN01** | **353** | **Transaction Set Purpose Code****Description:** Code identifying purpose of transaction set. **Code Name**1. Original
2. Cancellation

 05 Replace | **M** | **ID** | **2/2** | **Must use** |  |
|  | **BSN02** | **396** | **Shipment Identification****Description:** A unique control number assigned by the original shipper to identify a specific shipment.**Ship Notice Number should be a unique number.** | **M** | **AN** | **2/10** | **Must use** |  |
|  | **BSN03** | **373** | **Date****Description:** Date expressed as CCYYMMDD.**ASN Creation Date.** | **M** | **DT** | **8/8** | **Must use** |  |
|  | **BSN04** | **337** | **Time****Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).**ASN Creation Time.** | **M** | **TM** | **4/4** | **Must use** |  |

 BSN\*00\*00137822\*20030926\*1325~

Semantics:

1. BSN03 is the date the shipment transaction set is created.

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

3. BSN06 is limited to shipment related codes.

Comments:

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

|  |  |  |
| --- | --- | --- |
| DTM | Date/Time Reference | Pos: 050 Max: 10Heading - OptionalLoop: N/A Elements: 3 |

To specify pertinent dates and times.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **DTM01** | **374** | **Date/Time Qualifier****Description:** Code specifying type of date or time, or both date and time. **Code Name** **011 Shipped** | **M** | **ID** | **3/3** | **Must use** |  |
|  | **DTM02** | **373** | **Ship Date****Description:** Date expressed as CCYYMMDD. | **C** | **DT** | **8/8** | **Used** |  |
|  | **DTM03** | **337** | **Ship Time****Description:** This is the actual ship time. Time expressed in 24-hour clock time as HHMM. | **M** | **TM** | **4/4** | **Used** |  |

 DTM\*011\*20030926\*1325~

Syntax:

1. DTM02 R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

2. DTM04 C0403 -- If DTM04 is present, then DTM03 is required.

3. DTM05 P0506 -- If either DTM05 or DTM06 are present, then the others are required.

|  |  |  |
| --- | --- | --- |
| HL | Hierarchical Level – Shipment*Only one Shipment level per ASN* | Pos: 100 Max: 1Detail - MandatoryLoop: HL Elements: 2 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **HL01** | **628** | **Hierarchical ID Number****Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. **Code Name** **1 Shipment** | **M** | **AN** | **1/3** | **Must use** |  |
|  | **HL03** | **735** | **Hierarchical Level Code****Description:** Code defining the characteristic of a level in a hierarchical structure. **Code Name** **S Shipment** | **M** | **ID** | **1/2** | **Must use** |  |

 HL\*1\*\*S~

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

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

3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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

|  |  |  |
| --- | --- | --- |
| TD1 | Carrier Details (Quantity and Weight) | Pos: 110 Max: 20Detail - OptionalLoop: HL - Mandatory Elements: 5 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TD101** | **103** | **Packaging Code****Description:** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required **Code Name**  CTN Carton  | **O** | **AN** | **3/5** | **Not used** |  |
|  | **TD102** | **80** | **Lading Quantity****Description:** Number of units (pieces) of the lading commodity | **C** | **N0** | **1/7** | **Not used** |  |
|  | **TD106** | **187** | **Weight Qualifier****Description:** Code defining the type of weight **Code Name**  N Net Weight | **O** | **ID** | **1/2** | **Must use** |  |
|  | **TD107** | **81** | **Weight****Description:** Numeric value of weight | **C** | **R** | **1/10** | **Must use** |  |
|  | **TD108** | **355** | **Unit or Basis for Measurement Code****Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **Code Name**  LB Pounds | **C** | **ID** | **2/2** | **Must use** |  |

 TD1\*\*\*\*\*\*N\*1637\*LB~

Syntax:

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

2. TD103 C0304 -- If TD103 is present, then TD104 is required

3. TD106 C0607 -- If TD106 is present, then TD107 is required

4. TD107 P0708 -- If either TD107 or TD108 are present, then the others are required.

5. TD109 P0910 -- If either TD109 or TD110 are present, then the others are required.

|  |  |  |
| --- | --- | --- |
| TD5 | Carrier Details (Routing Sequence/Transit Time) | Pos: 120 Max: 12Detail - OptionalLoop: HL Elements: 2 |

To specify the carrier and sequence of routing and provide transit time information.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TD502** | **66** | **Identification Code Qualifier****Description:** Code designating the system/method of code structure used for Identification Code (67) **Code Name** **2 Standard Carrier Alpha Code (SCAC)** | **C** | **ID** | **1/2** | **Used** |  |
|  | **TD503** | **67** | **Identification Code****Description:** Standard Carrier Alpha Code (SCAC) of carrier.**SCAC Code (4 characters)** | **C** | **AN** | **2/17** | **Used** |  |

 **TD5\*\*2\*RYDD~**

Syntax:

1. TD502 R0204050612 -- At least one of TD502, TD504, TD505, TD506 or TD512 is required.

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

3. TD507 C0708 -- If TD507 is present, then TD508 is required.

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

5. TD513 C1312 -- If TD513 is present, then TD512 is required.

6. TD514 C1413 -- If TD514 is present, then TD513 is required.

7. TD515 C1512 -- If TD515 is present, then TD512 is required.

Semantics:

1. TD515 is the country where the service is to be performed.

Comments:

|  |  |  |
| --- | --- | --- |
| TD3 | Carrier Details (Equipment) | Pos: 130 Max: 1Detail - OptionalLoop: HL Elements: 2 |

To specify transportation details relating to the equipment used by the carrier.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TD301** | **40** | **Equipment Description Code**Valid Code listed below. **Code Name** **TL Trailer** | **O** | **ID** | **2/2** | **Used** |  |
|  | **TD303** | **207** | **Trailer Number****Description:** The number on the side of the trailer. This number must consist of characters from the ranges 0 thru 9, A thru Z, or a thru z. | **C** | **R** | **1/10** | **Used** |  |

 TD3\*TL\*\*579399~

Syntax:

1. TD301 E0110 -- Only one of TD301 or TD310 may be present.

2. TD302 C0203 -- If TD302 is present, then TD303 is required.

3. TD304 C0405 -- If TD304 is present, then TD305 is required.

4. TD305 P0506 -- If either TD305 or TD306 are present, then the others are required.

|  |  |  |
| --- | --- | --- |
| REF | Reference Identification | Pos: 140 Max: 1Detail - MandatoryLoop: HL Elements: 2 |

To specify identifying information

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **REF01** | **128** | **Reference Identification Qualifier****Description:** Code qualifying the Reference Identification. **Code Name** **BM Bill of Lading Number (cannot repeat)**. | **M** | **ID** | **2/3** | **Must use** |  |
|  | **REF02** | **127** | **Reference Identification****Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. (Cannot repeat)**Bill of Lading Number.** | **C** | **AN** | **1/20** | **Used** |  |

 REF\*BM\*CNLA105189~

Syntax:

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

Semantics:

1. REF04 contains data relating to the value cited in REF02.

|  |  |  |
| --- | --- | --- |
| N1 | Name – Supplier Code | Pos: 160 Max: 1Detail - OptionalLoop: N1 Elements: 3 |

To identify a party by type of organization, name, and code.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **N101** | **98** | **Entity Identifier Code****Description:** Code identifying an organizational entity, a physical location, property or an individual. **Code Name** **SU Supplier Code** | **M** | **ID** | **2/3** | **Must use** |  |
|  | **N103** | **66** | **Identification Code Qualifier****Description:** Code designating the system/method of code structure used for Identification Code (67). **Code Name** 92 Assigned by Buyer or Buyer's Agent. | **M** | **ID** | **1/2** | **Used** |  |
|  | **N104** | **67** | **Identification Code****Description:** Code identifying a party or other code.Should match Sender ID from the ISA, and GS levels. | **M** | **AN** | **2/17** | **Used** |  |

 N1\*SU\*\*01\*1222501~

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.

2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

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

2. N105 and N106 further define the type of entity in N101.

|  |  |  |
| --- | --- | --- |
| N1 | Name – Ship To Location | Pos: 170 Max: 1Detail - OptionalLoop: N1 Elements: 3 |

To identify a party by type of organization, name, and code.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **N101** | **98** | **Entity Identifier Code****Description:** Code identifying an organizational entity, a physical location, property or an individual. **Code Name** **ST Ship To** | **M** | **ID** | **2/3** | **Must use** |  |
|  | **N103** | **66** | **Identification Code Qualifier**Valid code listed below **Code Name** **92 Assigned by Buyer or Buyer's Agent** | **M** | **ID** | **1/2** | **Used** |  |
|  | **N104** | **67** | **Identification Code****Description:** Code identifying a party or other code.**CNL – Canal Pointe Manufacturing****CWH – Canal Pointe Warehouse****NCM – Nifco Central Mexico****MEX–Mexico Manufacturing****KY – Kentucky Manufacturing****LVG –Lavern Manufacturing****SLB – Shelbyville Manufacturing****GWH-Groveport Warehouse** | **M** | **AN** | **2/17** | **Used** |  |

 N1\*ST\*SHELBYVILLE KENTUCKY\*92\*SLB~

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.

2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

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

2. N105 and N106 further define the type of entity in N101.

|  |  |  |
| --- | --- | --- |
| HL | Hierarchical Level – Item  | Pos: 210 Max: 1Detail - MandatoryLoop: HL Elements: 3 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **HL01** | **628** | **Hierarchical ID Number****Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. | **M** | **AN** | **1/12** | **Must use** |  |
|  | **HL02** | **734** | **Hierarchical Parent ID Number****Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to. | **O** | **AN** | **1/12** | **Must use** |  |
|  | **HL03** | **735** | **Hierarchical Level Code****Description:** Code defining the characteristic of a level in a hierarchical structure. **Code Name** **I Item** | **M** | **ID** | **1/2** | **Must use** |  |

 HL\*3\*2\*I~

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

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

3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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

|  |  |  |
| --- | --- | --- |
| LIN | Item Identification | Pos: 220 Max: 1Detail – MandatoryLoop: HL Elements: 27 |

To specify basic item identification data.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **LIN02** | **235** | **Product/Service ID Qualifier****Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234). **Code Name** **BP Buyer's Part Number** | **M** | **ID** | **2/2** | **Must use** |  |
|  | **LIN03** | **234** | **Product/Service ID****Description:** Identifying number for a product or service.**Buyer's Part Number** | **M** | **AN** | **1/15** | **Must use** |  |
|  | **LIN04** | **235** | **Product/Service ID Qualifier****Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234). **Code Name** **BE Buyer’s Engineering Change Level Number.** **BE Qualifier indicates the part being shipped is at the design level listed in LIN05.** | **M** | **ID** | **2/2** | **Not Used** |  |
|  | **LIN05** | **234** | **Product/Service ID****Description:** Identifying number for a product or service.**Engineering Change Level Number**. | **M** | **AN** | **1/16** | **Not Used** |  |
|  | **LIN06** | **235** | **Product/Service ID Qualifier****Description:** Identifying number for a product or service. **Code Name** **PL PO Line Number** | **M** | **AN** | **1/2** | **Must use** |  |
|  | **LIN07** | **234** | **Product/Service ID****Description:** Identifying number for a product or service.This is the PO line number from the LIN11 of the 862 | **M** | **AN** | **1/16** | **Must use** |  |
|  | **LIN08** | **235** | **Product/Service ID Qualifier****Description:** Identifying number for a product or service.**Ship Schedule Qualifier** **Code Name**  **DO PO-Release-Shipment Line Number**  | **M** | **AN** | **1/2** | **Must use** |  |
|  | **LIN09** | **234** | **Product/Service ID****Description:** Identifying number for a product or service.This is the PO-Release-Shipment Line number from the FST09 of the 862 | **M** | **AN** | **1/16** | **Must use** |  |
|  |  |  |  |  |  |  |  |  |

LIN\*\*BP\*90006\*\*\*PL\*1\*DO\*1016592-509-1~

Syntax:

1. LIN06 P0407 -- If either LIN06 or LIN07 are present, then the others are required.

Semantics:

1. LIN01 is the line item identification.

Comments:

1. See the Data Dictionary for a complete list of IDs.

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

|  |  |  |
| --- | --- | --- |
| SN1 | Item Detail (Shipment) | Pos: 230 Max: 1Detail - MandatoryLoop: HL Elements: 2 |

To specify line-item detail relative to shipment.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SN102** | **382** | **Number of Units Shipped****Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.**Quantity** | **M** | **R** | **1/7** | **Must use** |  |
|  | **SN103** | **355** | **Unit or Basis for Measurement Code****Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. **Code Name** **EA Each** PC Piece LB Pounds KG Kilograms | **M** | **ID** | **2/2** | **Must use** |  |

 SN1\*\*60\*EA~

Syntax:

1. SN105 P0506 -- If either SN105 or SN106 are present, then the others are required.

Semantics:

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

Comments:

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

|  |  |  |
| --- | --- | --- |
| REF | Reference Identification | Pos: 240 Max: 1Detail - OptionalLoop: HL Elements: 2 |

To specify identifying information.

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **REF01** | **128** | **Reference Identification Qualifier****Description:** Code qualifying the Reference Identification. **Code Name** **LS Bar-Coded Serial Number**  | **M** | **ID** | **2/3** | **Must use** |  |
|  | **REF02** | **127** | **Reference Identification****Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.**Container (Part ID) Label Serial Number**Scanned serial number from parts identification label on each container.This number is created by Nifco Suppliers.First seven digits should be the Nifco Supplier code from the N1\*SU 04followed by container serial number. | **M** | **AN** | **1/16** | **Used** |  |

 REF\*LS\*1222501534525323~

Syntax:

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

Semantics:

1. REF04 contains data relating to the value cited in REF02.

|  |  |  |
| --- | --- | --- |
| CTT | Transaction Totals | Pos: 250 Max: 1Summary - OptionalLoop: N/A Elements: 2 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CTT01** | **354** | **Number of Line Items****Description:** Total number of line items in the transaction set.**Number of Hierarchical Levels (HL Segments)** | **M** | **N0** | **1/6** | **Must use** |  |
|  | **CTT02** | **347** | **Hash Total****Description:** The sum of the value of units shipped (SN102) for each SN1 segment. | **M** | **R** | **1/10** | **Must use** |  |

 CTT\*106\*78090~

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.

2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

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

|  |  |  |
| --- | --- | --- |
| SE | Transaction Set Trailer | Pos: 260 Max: 1Summary - MandatoryLoop: N/A Elements: 2 |

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

Element Summary:

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

 SE\*430\*7556001~

Comments:

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

|  |  |  |
| --- | --- | --- |
| GE | Functional Group Trailer | Pos: 270 Max: 1 - MandatoryLoop: N/A Elements: 2 |

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

Element Summary:

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

 GE\*1\*7556~

Semantics:

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

Comments:

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

|  |  |  |
| --- | --- | --- |
| IEA | Interchange Control Trailer | Pos: 280 Max: 1 - MandatoryLoop: N/A Elements: 2 |

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

Element Summary:

|  |  Ref \_  |  Id\_  |  Element Name \_ | Req | Type | Min/Max |  Usage\_ |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **IEA01** | **I16** | **Number of Included Functional Groups****Description:** A count of the number of functional groups included in an interchange. | **M** | **N0** | **1/5** | **Must use** |  |
|  | **IEA02** | **I12** | **Interchange Control Number****Description:** A control number assigned by the interchange sender. | **M** | **N0** | **9/9** | **Must use** |  |

 IEA\*1\*000007556~

Sample Data File:

ISA\*00\* \*00\* \*01\*947592879 \*12\*6148363808 \*200212\*1234\*U\*00401\*000000578\*0\*P\*>~

GS\*SH\*947592879\*6148363808\*20200212\*1434\*546\*X\*004010~

ST\*856\*5460001~

BSN\*00\*12345678\*20200219\*123446~

DTM\*011\*20200219~

HL\*1\*\*S~

TD1\*\*\*\*\*\*N\*1637\*LB~

TD5\*\*2\*RYDD~

TD3\*TL\*\*5387780~

REF\*BM\*200212215~

N1\*SU\*\*92\*1222501~

N1\*ST\*\*92\*GWH~

HL\*2\*1\*I~

LIN\*\*BP\*90006\*\*\*PL\*1\*DO\*1016592-509-1~

SN1\*\*9000\*LB~

REF\*LS\*1222501534525323~

HL\*3\*1\*I~

LIN\*\*BP\*90007\*\*\*PL\*2\*DO\*1016592-509-2~

SN1\*\*2205\*LB~

REF\*LS\*1222501534524637~

HL\*4\*1\*I~

LIN\*\*BP\*91543\*\*\*PL\*16\*DO\*1016592-509-7~

SN1\*\*2205\*LB~

REF\*LS\*1222501534525517~

HL\*5\*1\*I~

LIN\*\*BP\*91624\*\*\*PL\*18\*DO\*1016592-509-5~

SN1\*\*2205\*LB~

REF\*LS\*1222501534524844~

HL\*6\*1\*I~

LIN\*\*BP\*91870\*\*\*PL\*22\*DO\*1016592-509-6~

SN1\*\*2205\*LB~

REF\*LS\*1222501534525416~

CTT\*6\*7000~

SE\*32\*5460001~

GE\*1\*546~

IEA\*1\*000000578~