## EDI Implementation Guidelines

## ANSI X12 version/Release 3020 856 Ship Notice / Manifest

 ADIENT
## 856 Ship Notice/Manifest

Functional Group ID=SH

## Introduction:

This standard provides the standardized format and establishes the data contents of a ship notice/manifest transaction set. A ship notice/manifest lists the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the 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. No. | Seg. <br> ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | 010 | ST | Transaction Set Header | M | 1 |  |  |
| M | 020 | BSN | Beginning Segment for Ship Notice | M | 1 |  |  |
| Not Used | 030 | NTE | Note/Special Instruction | F | 100 |  |  |
|  | 040 | DTM | Date/Time/Period | O | 10 |  |  |

## Detail:

Pos. Seg.
No. ID Name

| LOOP ID - HL |  |  | 200000 |  |
| :--- | :--- | :--- | :--- | :--- |
| Hierarchical Level | M | 1 | c1 |  |
| Item Identification | O | 1 |  |  |
| Item Detail (Shipment) | O | 1 |  |  |
| Subline Item Detail | O | 100 |  |  |
| Purchase Order Reference | O | 1 |  |  |
| Item Physical Details | O | 1 |  |  |




| Not Used | 140 | TD4 | Carrier Details (Special Handling, Hazardous Materials, or Both) | O | 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 150 | REF | Reference Numbers | O | 200 |  |
|  | 150 | REF | Reference Numbers | O | 200 |  |
| Not Used | 160 | PER | Administrative Communications Contact | O | 3 |  |
|  |  |  | LOOP ID - CLD |  |  | 200 |
|  | 170 | CLD | Load Detail | O | 1 |  |
|  | 180 | REF | Reference Numbers | O | 200 |  |
| Not Used | 190 | MAN | Marks and Numbers | O | 10 |  |
| Not Used | 200 | DTM | Date/Time/Period | O | 10 |  |
| Not Used | 210 | FOB | F.O.B. Related Instructions | O | 1 |  |
|  |  |  | LOOP ID - N1 |  |  | 200 |
| Not Used | 220 | N1 | Name | O | 1 |  |
| Not Used | 230 | N2 | Additional Name Information | 0 | 2 |  |
| Not Used | 240 | N3 | Address Information | O | 2 |  |
| Not Used | 250 | N4 | Geographic Location | O | 1 |  |
| Not Used | 260 | REF | Reference Numbers | O | 12 |  |
| Not Used | 270 | PER | Administrative Communications Contact | 0 | 3 |  |
| Not Used | 280 | FOB | F.O.B. Related Instructions | 0 | 1 |  |
| Not Used | 290 | SDQ | Destination Quantity | O | 50 |  |
| Not Used | 300 | ETD | Excess Transportation Detail | O | 1 |  |
| Not Used | 310 | CUR | Currency | O | 1 |  |
| Not Used | 320 | ITA | Allowance, Charge or Service | O | 10 |  |

## Summary:

|  | Pos. Seg. | Req. | Loop | Notes and |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | No. | ID | Name | Des. | Max.Use | Repeat | Comments

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

## ST

## Segment: Transaction Set Header

Position: 010
Loop:

| Level: | Heading |
| :--- | :--- |
| Usage: | Mandatory |

Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:
Comments: 1 The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

## Data Element Summary

|  | Ref. <br> Des. | Data <br> Element | Name <br> M <br> STO1 |
| :--- | :--- | :--- | :--- |
| STansaction Set Identifier Code |  |  |  |
| Code uniquely identifying a Transaction Set |  |  |  |$\quad$| Attributes |
| :---: |
| M ST02 |

## BSN

| Segment: <br> Position: <br> Loop: | Beginning Segment for Ship Notice <br> Level: |
| :--- | :--- |
| Usage: Heading <br> Max Use: Mandatory <br> Purpose: To transmit identifying numbers, dates, and other basic data relating to the <br> transaction set <br> Syntax Notes:  <br> Semantic Notes: <br> Comments: $\mathbf{1}$BSNO3 is the date the shipment transaction set is created. |  |
|  | 2 |

## Data Element Summary



## DTM

| Segment: | Date/Time/Period |
| :--- | :--- |
| Position: | 040 |
| Loop: |  |
| Level: | Heading |
| Usage: | Optional |
| Max Use: 10 <br> Purpose: To specify pertinent dates and times <br> Syntax Notes:  <br> Semantic Notes:  <br> Comments: 1 At least one of DTM02 or DTM03 is required.  |  |

## Data Element Summary



## HL

| Segment: |  | Hierarchical Level |
| :---: | :---: | :---: |
| Position: |  | 010 |
| Loop: |  | HL Mandatory |
| Level: |  | Detail |
| Usage: |  | Mandatory |
| Max Use: |  | 1 |
| Purpose: |  | To identify dependencies among and the content of hierarchically related groups of data segments |
| Syntax Notes: <br> Semantic Notes: Comments: |  |  |
|  | 1 | 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, HLO1 could be used to indicate the number of occurrences of the HL segment, in which case the value of HLO1 would be " 1 " for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction. |
|  | 3 | HLO2 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate. |
|  | 4 | HLO3 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, HL 03 is used to indicate the 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. |

## Notes: <br> Shipment Level

## Data Element Summary

Ref. Data


| HL04 $736 \quad$Hierarchical Child Code <br> Code indicating whether if there are hierarchical child data segments <br> subordinate to the level being described. | O ID 1/1 |
| :--- | :--- |
|  | Refer to 003020 Data Element Dictionary for acceptable code values. |



| MEA06 | 741 | Range Maximum | X R 1/10 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | The value specifying the maximum of the measurement range |  |  |
| MEA07 | 935 | Measurement Significance Code | O ID $2 / 2$ |  |
|  |  | Code used to benchmark, qualify or further define a measurement value |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| MEA08 | 936 | Measurement Attribute Code | X | ID 2/2 |
|  |  | Code used to express an attribute response when a numeric measurement value cannot be determined |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values |  |  |
| MEA09 | 752 | Surface/Layer/Position Code | 0 | ID 2/2 |
|  |  | Code indicating the product surface, layer or position that is being described |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values |  |  |

## TD1

| Segment: | Carrier Details (Quantity and Weight) |
| :--- | :--- |
| Position: | 110 |
| Loop: | Mandatory |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 20 |
| Purpose: | To specify the transportation details relative to commodity, weight, and <br>  <br> quantity |
| Syntax Notes: | $\mathbf{1}$ If TD101 is present, then TD102 is required |
|  | $\mathbf{2}$ If TD103 is present, then TD104 is required. |
|  | $\mathbf{3}$ If TD106 is present, then TD107 is required. |
| Semantic Notes: |  |
| Comments: |  |

## Data Element Summary

Ref. Data
Des. Element Name Attributes

TD101 103 Packaging Code O AN 5/5
Code identifying the type of packaging; Part 1: Packaging Form, Part 2:
Packaging Material
Refer to 003020 Data Element Dictionary for acceptable code values.
$\begin{array}{lll}\text { TD102 } 80 \text { Lading Quantity } & X \quad \text { N0 1/7 }\end{array}$
Number of units (pieces) of the lading commodity

| X $\quad 23$ Commodity Code Qualifier | O ID 1/1 |
| :--- | :--- | :--- | :--- |

Code identifying the commodity coding system used for Commodity Code
Refer to 003020 Data Element Dictionary for acceptable code values.

| X | TD104 | $\mathbf{2 2}$ | Commodity Code <br> Code describing a commodity or group of commodities <br> X | TD105 | $\mathbf{7 9}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | | Lading Description |
| :--- |
| X |

Refer to 003020 Data Element Dictionary for acceptable code values.
$\begin{array}{llll}\text { X TD107 } 81 & \text { Weight } & \text { X } \mathbf{1 / 8}\end{array}$
Numeric value of weight

| X TD108 355 | Unit or Basis for Measurement Code |  |
| :--- | :--- | :--- |
|  |  | Oode identifying the basic unit of measurement. |
|  | Refer to 003020 Data Element Dictionary for acceptable code values |  |

## TD5

| Segment: | Carrier Details (Routing Sequence/Transit Time) |
| :---: | :---: |
| Position: | 120 |
| Loop: | HL |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 12 |
| Purpose: | To specify the carrier and sequence of routing and provide transit time information |
| Syntax Notes: | 1 At least one of TD502 TD504 or TD505 is required. |
|  | 2 If TD502 is present, then TD503 is required |
|  | 3 If TD507 is present, then TD508 is required. |
|  | 4 If TD510 is present, then TD511 is required. |
| Semantic Notes: |  |
| Comments: | 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502 |

## Data Element Summary

Ref. Data
Des. Element_Name Attributes
TD501 133 Routing Sequence Code O ID 1/2


Code specifying the method or type of transportation for the shipment

| A | Air |
| :--- | :--- |
| C | Consolidation |
| M | Motor (Common Carrier) |
| R | Rail |



## TD3

Segment: Carrier Details (Equipment)
Position: 130
Loop: HL Mandatory
Level: Detail

Usage: Mandatory
Max Use: 12
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes: 1 If TD302 is present, then TD303 is required.
2 If TD304 is present, then both TD305 and TD306 are required

## Semantic Notes:

## Comments:

## Data Element Summary

|  | Ref. <br> Des. | Data <br> Element | Name | Attributes |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| M | TD301 | 40 | Equipment Description Code | M | ID $2 / 2$ |
|  |  |  | Code identifying type of equipment used for shipment |  |  |
|  |  |  | TL Trailer (not otherwise specified) |  |  |
| X | TD302 | 206 | Equipment Initial | 0 | AN 1/4 |
|  |  |  | Prefix or alphabetic part of an equipment unit's identifying number |  |  |
|  | TD303 | 207 | Equipment Number | X | AN 1/10 |
|  |  |  | Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) |  |  |
|  | TD304 | 187 | Weight Qualifier | 0 | ID 1/2 |
|  |  |  | Code defining the type of weight |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
|  | TD305 | 81 | Weight | X | R 1/8 |
|  |  |  | Numeric value of weight |  |  |
|  | TD306 | 355 | Unit or Basis for Measurement Code | X | ID 2/2 |
|  |  |  | Code identifying the basic unit of measurement. |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values |  |  |
|  | TD307 | 102 | Ownership Code | 0 | ID 1/1 |
|  |  |  | Code indicating the relationship of equipment to carrier. |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values |  |  |

## TD4

| Segment: | Carrier Details (Special Handling, or Hazardous Materials, or Both) |
| :---: | :---: |
| Position: | 140 |
| Loop: | HL Mandatory |
| Level: | Detail |
| Usage: | Optional |
| Max Use: | 5 |
| Purpose: | To specify transportation special handling requirements, or hazardous materials information, or both |
| Syntax Notes: | At least one of TD401 TD402 or TD404 is required. |
|  | If TD402 is present, then TD403 is required |
| Semantic Notes: Comments: |  |

## Data Element Summary

| Ref. | Data |  | Attributes |  |
| :---: | :---: | :---: | :---: | :---: |
| Des. | Element | Name |  |  |
| TD401 | 152 | Special Handling Code | X ID $2 / 3$ |  |
|  |  | Code specifying special transportation handling instructions |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| TD402 | 208 | Hazardous Material Code Qualifier | X ID 1/1 |  |
|  |  | Code which qualifies the Hazardous Material Class Code (209) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| TD403 | 209 | Hazardous Material Class Code | x | AN 2/4 |
|  |  | Code specifying the kind of hazard for a material |  |  |
| TD404 | 352 | Description | X AN 1/80 |  |
|  |  | A free-form description to clarify the related data elements and their |  |  |  |

## REF

Segment: Reference Numbers

| Position: | 150 |
| :--- | :--- |
| Loop: | HL Mandatory |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 200 |
| Purpose: | To specify identifying numbers. |
| Syntax Notes: 1 <br> Semantic Notes: least one of REFO2 or REF03 is required.  <br> Comments:  |  |

## Data Element Summary



## N1

Segment: Name
Position: 220
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use:
1
Purpose:
To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required
Semantic Notes:
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.

## Data Element Summary

|  | Ref. <br> Des. | Data <br> Element | Name | Attributes |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| M | N101 | 98 | Entity Identifier Code | M | ID $2 / 2$ |
|  |  |  | Code identifying an organizational entity or a physical location. |  |  |
|  |  |  | SF Ship From |  |  |
|  |  |  | ST Ship To |  |  |
| X | N102 | 93 | Name | X | AN 1/35 |
|  |  |  | Free-form name |  |  |
|  | N103 | 66 | Identification Code Qualifier | X | ID 1/2 |
|  |  |  | Code designating the system/method of code structure used for |  |  |
|  |  |  | Identification Code (67) |  |  |
|  |  |  | 1 Dun and Bradstreet (Credit Reporting) (DUNS) |  |  |
|  | N104 | 67 | Identification Code | X | AN 2/17 |
|  |  |  | Code identifying a party. |  |  |
|  |  |  | DUNS Number |  |  |

## N2

Segment: Additional Name Information
Position: 230
Loop: N1
Level: Detail
Usage: Optional
Max Use: 2
Purpose:
To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:

## Comments:

## Data Element Summary

```
    Ref. Data
    Des. Element_Name Attributes
M N201 93 Name M M 1/35
    N202 Name O AN 1/35
```


## HL

| Segment: | Hierarchical Level |
| :--- | :--- |
| Position: | 010 |
| Loop: | HL Optional |
| Level: | Detail |
| Usage: | Optional |
| Max Use: | 1 |
| Purpose: | To identify dependencies among and the content of hierarchically related groups | of data segments

## Syntax Notes:

## Semantic Notes:

## Comments:

Notes:
1 The HL segment defines a top-down/left-right ordered structure.
2 HLO1 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HLO1 could be used to indicate the number of occurrences of the HL segment, in which case the value of HLO1 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction
3 HLO2 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HLO3 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, HLO3 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 HLO4 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Order Level - Primary Metals ONLY
Data Element Summary

Ref. Data
Des. Element Name Attributes
$\begin{array}{llll}\text { M } & \text { HLO1 } & 628 & \text { Hierarchical ID Number }\end{array}$ M AN 1/12
A unique number assigned by the sender to identify a particular data segment in a hierarchical structure
HLO2 734 Hierarchical Parent ID Number
O AN $\mathbf{1 / 1 2}$
Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

| M HLO3 | 735 | Hierarchical Level Code | M ID 1/2 |
| :--- | :--- | :--- | :--- |

Code defining the characteristic of a level in a hierarchical structure
O Order

## HLO4 736 Hierarchical Child Code

0 ID 1/1
Code indicating whether if there are hierarchical child data segments subordinate to the level being described.
Refer to 003020 Data Element Dictionary for acceptable code values

## LIN

| Segment: | Item Identification |
| :---: | :---: |
| Position: | 020 |
| Loop: | HL Optional |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To specify basic item identification data |
| Syntax Notes: | 1 If LIN04 is present, then LINO5 is required. |
|  | 2 If LIN06 is present, then LIN07 is required. |
|  | 3 If LIN08 is present, then LIN09 is required. |
|  | 4 If LIN10 is present, then LIN11 is required. |
|  | 5 If LIN12 is present, then LIN13 is required. |
|  | 6 If LIN14 is present, then LIN15 is required. |
|  | 7 If LIN16 is present, then LIN17 is required. |
|  | 8 If LIN18 is present, then LIN19 is required. |
|  | 9 If LIN20 is present, then LIN21 is required. |
|  | 10 If LIN22 is present, then LIN23 is required. |
|  | 11 If LIN24 is present, then LIN25 is required. |
|  | 12 If LIN26 is present, then LIN27 is required. |
|  | 13 If LIN28 is present, then LIN29 is required. |
|  | 14 If LIN30 is present, then LIN31 is required. |

## Semantic Notes:

Comments: 1 See the Data Dictionary for a complete list of ID's.
2 LINO1 is the line item identification
3 LINO2 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

## Data Element Summary



| M | LIN03 | $\mathbf{2 3 4}$ | Product/Service ID <br> Identifying number for a product or service <br> Product/Service ID Qualifier <br> Code identifying the type/source of the descriptive number used in <br> Product/Service ID (234) <br> Refer to 003020 Data Element Dictionary for acceptable code values. <br> Product/Service ID <br> Identifying number for a product or service <br> LIN05 | $\mathbf{2 3 5}$ |
| :--- | :--- | :--- | :--- | :--- |$\quad$| M |
| :--- |


| LIN16 | 235 | Product/Service ID Qualifier | 0 ID $2 / 2$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN17 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN18 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN19 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN20 | 235 | Product/Service ID Qualifier | 0 | ID 212 |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN21 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN22 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN23 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN24 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN25 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN26 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN27 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN28 | 235 | Product/Service ID Qualifier | O ID $2 / 2$ |  |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |  |
|  |  | Product/Service ID (234) |  |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |  |


| LIN29 | $\mathbf{2 3 4}$ | Product/Service ID <br> Identifying number for a product or service | X AN 1/30 |
| :--- | :--- | :--- | :--- | :--- |
| LIN30 | $\mathbf{2 3 5}$ | Product/Service ID Qualifier <br> Code identifying the type/source of the descriptive number used in <br> Product/Service ID (234) | O ID 2/2 |
| LIN31 | $\mathbf{2 3 4}$ | Refer to 003020 Data Element Dictionary for acceptable code values. <br> Product/Service ID <br> Identifying number for a product or service | X AN 1/30 |

## SN1

| Segment: | Item Detail (Shipment) |
| :---: | :---: |
| Position: | 030 |
| Loop: | HL Optional |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To specify line-item detail relative to shipment |
| Syntax Notes: | 1 If SN105 is present, then SN106 is required. |
| Semantic Notes: |  |
| Comments: | 1 SN101 is the ship notice line item identification. |
|  | 2 SN103 defines the unit of measurement for both SN102 and SN104 |

## Data Element Summary

|  | Ref. Des. | Data Element | Name |  | Attributes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| X | SN101 | 350 | Assigned Identification | 0 | AN 1/11 |
|  |  |  | Alphanumeric characters assigned for differentiation within a transaction set |  |  |
| M | SN102 | 382 | Number of Units Shipped | M | R 1/10 |
|  |  |  | Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set |  |  |
| M | SN103 | 355 | Unit or Basis for Measurement Code | M | ID $2 / 2$ |
|  |  |  | Code identifying the basic unit of measurement. |  |  |
|  |  |  | 24 Theoretical Pounds |  |  |
|  | SN104 | 646 | Quantity Shipped to Date | 0 | R 1/9 |
|  |  |  | Number of units shipped to date |  |  |
| X | SN105 | 330 | Quantity Ordered | 0 | R 1/9 |
|  |  |  | Quantity ordered |  |  |
| X | SN106 | 355 | Unit or Basis for Measurement Code | X | ID 2/2 |
|  |  |  | Code identifying the basic unit of measurement. |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
|  | SN107 | 728 | Returnable Container Load Make-Up Code | O ID 1/2 |  |
|  |  |  | Code identifying the load make-up of the returnable containers in the shipment |  |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |  |
|  | SN108 | 668 | Line Item Status Code | O ID $2 / 2$ |  |
|  |  |  | Code specifying the action taken by the seller on a line item requested by the buyer |  |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |  |

## PRF

| Segment: | Purchase Order Reference |
| :--- | :--- |
| Position: | 050 |
| Loop: | HL Optional |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To provide reference to a specific purchase order |
| Syntax Notes: |  |
| Semantic Notes: |  |
| Comments: |  |

## Data Element Summary

Ref. Data
Des. Element Name Attributes

| M | PRF01 | 324 | Purchase Order Number <br> Identifying number for Purchase Order assigned by the orderer/purchaser | M | AN 1/22 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| X | PRF02 | 328 | Release Number | 0 | AN 1/30 |
|  |  |  | Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction |  |  |
| X | PRF03 | 327 | Change Order Sequence Number | 0 | AN 1/8 |
|  |  |  | Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set |  |  |
| X | PRF04 | 323 | Purchase Order Date | 0 | DT 6/6 |
|  |  |  | Date assigned by the purchaser to Purchase Order |  |  |
| X | PRF05 | 350 | Assigned Identification | 0 | AN 1/11 |
|  |  |  | Alphanumeric characters assigned for differentiation within a transaction set |  |  |
| X | PRF06 | 367 | Contract Number | 0 | AN 1/30 |

## CLD

## Segment: Load Detail

Position: 170
Loop: CLD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the number of material loads shipped
Syntax Notes:
Semantic Notes:
Comments:
1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.
2 CLD05, "Unit of Measure Code," is used to dimension the value given in CLD04, "Size."

## Data Element Summary



## HL



## Data Element Summary

## Ref. Data

```Des. Element NameAttributes
```

| M | HLO1 | $\mathbf{6 2 8}$ | Hierarchical ID Number <br> A unique number assigned by the sender to identify a particular data <br> segment in a hierarchical structure |
| :--- | :--- | :--- | :--- | | M AN 1/12 |
| :---: |
| HL02 $\mathbf{7 3 4}$ |



## LIN

| Segment: | Item Identification |
| :---: | :---: |
| Position: | 020 |
| Loop: | HL Optional |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To specify basic item identification data |
| Syntax Notes: | 1 If LINO4 is present, then LINO5 is required. |
|  | 2 If LIN06 is present, then LIN07 is required. |
|  | 3 If LIN08 is present, then LIN09 is required. |
|  | 4 If LIN10 is present, then LIN11 is required. |
|  | 5 If LIN12 is present, then LIN13 is required. |
|  | 6 If LIN14 is present, then LIN15 is required. |
|  | 7 If LIN16 is present, then LIN17 is required. |
|  | 8 If LIN18 is present, then LIN19 is required. |
|  | 9 If LIN20 is present, then LIN21 is required. |
|  | 10 If LIN22 is present, then LIN23 is required. |
|  | 11 If LIN24 is present, then LIN25 is required. |
|  | 12 If LIN26 is present, then LIN27 is required. |
|  | 13 If LIN28 is present, then LIN29 is required. |
|  | 14 If LIN30 is present, then LIN31 is required. |
| Semantic Notes: Comments: |  |
|  | 1 See the Data Dictionary for a complete list of ID's. |
|  | $2 \mathrm{LINO1}$ is the line item identification |
|  | 3 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU. |

Data Element Summary



| LIN16 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN17 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN18 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN19 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN20 | 235 | Product/Service ID Qualifier | 0 | ID 212 |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN21 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN22 | 235 | Product/Service ID Qualifier | 0 | ID 212 |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN23 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN24 | 235 | Product/Service ID Qualifier | 0 | ID $2 / 2$ |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN25 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN26 | 235 | Product/Service ID Qualifier | 0 | ID 212 |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |
|  |  | Product/Service ID (234) |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| LIN27 | 234 | Product/Service ID | X | AN 1/30 |
|  |  | Identifying number for a product or service |  |  |
| LIN28 | 235 | Product/Service ID Qualifier | O ID $2 / 2$ |  |
|  |  | Code identifying the type/source of the descriptive number used in |  |  |  |
|  |  | Product/Service ID (234) |  |  |  |
|  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |  |


| LIN29 | $\mathbf{2 3 4}$ | Product/Service ID <br> Identifying number for a product or service | X | AN 1/30 |
| :--- | :--- | :--- | :--- | :--- |
| LIN30 | $\mathbf{2 3 5}$ | Product/Service ID Qualifier <br> Code identifying the type/source of the descriptive number used in <br> Product/Service ID (234) |  | Refer to 003020 Data Element Dictionary for acceptable code values. <br> Product/Service ID <br> Identifying number for a product or service |

## SN1

| Segment: | Item Detail (Shipment) |
| :---: | :---: |
| Position: | 030 |
| Loop: | HL Optional |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To specify line-item detail relative to shipment |
| Syntax Notes: | 1 If SN 105 is present, then SN106 is required. |
| Semantic Notes: |  |
| Comments: | 1 SN101 is the ship notice line item identification. |
|  | 2 SN103 defines the unit of measurement for both SN102 and SN104 |

## Data Element Summary



## PRF

| Segment: | Purchase Order Reference |
| :--- | :--- |
| Position: | $050 \quad$ HL Optional |
| Loop: | HL |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To provide reference to a specific purchase order |
| Syntax Notes: |  |
| Semantic Notes: |  |
| Comments: |  |

## Data Element Summary

|  | Ref. <br> Des. | Data <br> Element | Name <br> M | PRF01 |
| :--- | :--- | :--- | :--- | :--- |
| X | PRF02 | $\mathbf{3 2 4}$ | Purchase Order Number <br> Identifying number for Purchase Order assigned by the orderer/purchaser <br> Release Number <br> Number identifying a release against a Purchase Order previously placed <br> by the parties involved in the transaction <br> Change Order Sequence Number <br> Number assigned by the orderer identifying a specific change or revision <br> to a previously transmitted transaction set | M AN 1/22 |

## MEA

| Segment: | Measurements |
| :---: | :---: |
| Position: | 80 |
| Loop: | HL |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | $40$ <br> To specify physical measurements, including dimension tolerances, weights |
| Purpose: | and counts. |
| Syntax Notes: | 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. |
|  | 2 If MEA03 is present, then MEA04 is required |
|  | 3 If MEA05 is present, then MEA04 is required. |
|  | 4 If MEA06 is present, then MEA04 is required. |
|  | 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. |
|  | 6 Only one of MEA08 or MEA03 may be present. |
| Semantic Notes: |  |
| Comments: | 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value |
| Notes: | Primary Metals ONLY |
|  | MEA*PD*WT*1231*01 |

## Data Element Summary

Ref. Data
Des. Element Name Attributes
MEA01 737 Measurement Reference ID Code O ID 2/2
Code specifying the application of physical measurement cited.
PD Physical Dimensions
$\begin{array}{lll}\text { MEA02 } & 738 & \text { Measurement Qualifier }\end{array}$
Code identifying the type of measurement.
G Gross Weight
N Actual Net Weight
$\begin{array}{lll}\text { MEA03 } 739 \text { Measurement Value } & \text { X R1/10 }\end{array}$
The value of the measurement
MEA04 355 Unit or Basis for Measurement Code X ID 2/2
Code identifying the basic unit of measurement.
LB Pound, KG Kilogram
X MEA05 740 Range Minimum $\quad$ X R1/10
The value specifying the minimum of the measurement range

| X | MEA06 | 741 | Range Maximum | X R 1/10 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | The value specifying the maximum of the measurement range |  |  |
| X | MEA07 | 935 | Measurement Significance Code | 0 | ID 212 |
|  |  |  | Code used to benchmark, qualify or further define a measurement value |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values. |  |  |
| X | MEA08 | 936 | Measurement Attribute Code | X | ID 2/2 |
|  |  |  | Code used to express an attribute response when a numeric measurement value cannot be determined |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values |  |  |
| X | MEA09 | 752 | Surface/Layer/Position Code | 0 | ID $\mathbf{2 / 2}$ |
|  |  |  | Code indicating the product surface, layer or position that is being described |  |  |
|  |  |  | Refer to 003020 Data Element Dictionary for acceptable code values |  |  |

## REF

| Segment: | Reference Numbers |
| :---: | :---: |
| Position: | 150 |
| Loop: | HL Mandatory |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 200 |
| Purpose: | To specify identifying numbers. |
| Syntax Notes: | 1 At least one of REF02 or REF03 is required. |
| Semantic Notes: Comments: | Primary Metals |
|  | Data Element Summary |

Ref. Data
Des. Element Name Attributes
M REF01 128 Reference Number Qualifier $\quad$ M ID 2/2

Code qualifying the Reference Number.
HC Heat Code
LS Bar-Coded Serial Number
REF02 127 Reference Number X AN 1/30
Reference number or identification number as defined for a particular
Transaction Set, or as specified by the Reference Number Qualifier.
X REF03 352 Description X AN 1/80
A free-form description to clarify the related data elements and their content

## CLD



## Data Element Summary



## REF

| Segment: | Reference Numbers |
| :---: | :---: |
| Position: | 150 |
| Loop: | HL Mandatory |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 200 |
| Purpose: | To specify identifying numbers. |
| Syntax Notes: | 1 At least one of REF02 or REF03 is required. |
| Semantic Notes: |  |
| Comments: | Primary Metals ONLY |
|  | Data Element Summary |

Ref. Data
Des. Element Name Attributes


## CTT

| Segment: | Transaction Totals |
| :---: | :---: |
| Position: | 010 |
| Loop: |  |
| Level: | Summary |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To transmit a hash total for a specific element in the transaction set |
| Syntax Notes: | 1 If CTT03 is present, then CTT04 is required. |
|  | 2 If CTT05 is present, then CTT06 is required |
| Semantic Notes: |  |
| Comments: | 1 This segment is intended to provide hash totals to validate transaction completeness and correctness. |

## Data Element Summary



| CTT06 | $\mathbf{3 5 5}$ | Unit or Basis for Measurement Code <br> Code identifying the basic unit of measurement. | X ID 2/2 |
| :--- | :--- | :--- | :--- |
| CTT07 | $\mathbf{3 5 2}$ | Refer to 003020 Data Element Dictionary for acceptable code values. <br> Description <br> A free-form description to clarify the related data elements and their <br> content | O AN 1/80 |

## SE



## Example:

```
ISA*00* *00* *01*03350 *01*000290
*090226*0914*U*00200*000000160*0*P*\
GS*SH*03350*000290*090226*0914*160*X*003020
ST*856*30288802
BSN*00*30288802*090226*0914
DTM*011*090226*1630
HL*1**S
MEA*PD*N*409*LB
MEA*PD*G*409*LB
TD1*PCS90*0
TD5*B*02*UNPC*LT
TD3*TL**CH1J0H1755
REF*BM*30288802
REF*PK*30288802
N1*SF**01*03350
N1*ST**92*000290
HL*2*1*I
LIN**BP*616108-167A
SN1**600*EA*600
PRF*55025112
HL*3*1*I
LIN**BP*3451R167ABAS
SN1**30*EA*30
PRF*55025112
HL*4*1*I
LIN**BP*1901348-167A
SN1**150*EA*150
PRF*55025112
HL*5*1*I
LIN**BP*1701087
SN1**60*EA*60
PRF*55025112
CTT*5*840
SE*31*30288802
GE*1*160
IEA*1*000000160
```


## Document Revision

| Version | Date | Description | Author |
| :--- | :--- | :--- | :--- |
| 1.0 | $2009-02-10$ | Creation | Hans-Ulrich Berger |
| 1.5 | $2009-09-18$ | Enhancement | Hans-Ulrich Berger |
| 2.0 | $2016-$ Aug-10 | Modified JCI or Johnson Controls references to be <br> Adient. Removed JCI logo and added Adient logo. | Hemant Bhardwaj |
| 2.1 | $2022-M a r-22$ | Modified Shipper number pattern | Gomichan Paul George |
|  |  |  |  |
|  |  |  |  |

