|  |
| --- |
| External B2B Request for Hubs  ANSI X12  Initial Business Requirements (IBR) |

ClearQuest case number (to be added by Micron):

The purpose of this questionnaire is to provide the required details for an electronic connection with Micron. *Please provide as much information as possible when completing this questionnaire.*

TRADING PARTNER INFORMATION

Trading Partner Name:

Are you a current or former Micron trading partner?

Do you currently have B2B / EDI capabilities?

|  |  |
| --- | --- |
| Trading Partner Business Contact: | |
| *Name:* |  |
| *Title:* |  |
| *Phone number:* |  |
| *Email:* |  |

|  |  |
| --- | --- |
| Trading Partner B2B / EDI Technical Contact: | |
| *Name:* |  |
| *Title:* |  |
| *Phone number:* |  |
| *Email:* |  |

Trading Partner Sender / Receiver IDs\*

|  |  |
| --- | --- |
|  | |
| EDI ID’s | Sender/Receiver IDs  *(include qualifiers, ISA and GS)* |
| Trading Partner  Test ID’s  \*required | Please supply the following:  Test ISA Qualifier: \_\_\_\_\_\_\_\_\_\_  Test ISA ID: \_\_\_\_\_\_\_\_\_\_  Test GS ID: \_\_\_\_\_\_\_\_\_\_ |
| Trading Partner  Production ID’s  \* required | Please supply the following:  PROD ISA Qualifier: \_\_\_\_\_\_\_\_\_\_  PROD ISA ID: \_\_\_\_\_\_\_\_\_\_  PROD GS ID: \_\_\_\_\_\_\_\_\_\_ |
| *Micron’s Test ID’s* | *Test ISA Qualifier: ZZ*  *Test ISA ID: 093120871T*  *Test GS ID: 093120871T* |
| *Micron’s*  *Production ID’s* | *ISA Qualifier: 01*  *ISA ID: 093120871*  *GS ID: 093120871* |

Method of Data Transport:

|  |  |  |
| --- | --- | --- |
| Method  \*choose 1 preferred method | | Supporting Information:  *Please supply URL, email address, IP address, Certificate info, etc…* |
| VAN | |  |
|  | Name of VAN |  |
| Point-to-Point Protocol | |  |
|  | EDI-INT – AS1 (SMTP)  *Include email address & certificates* |  |
|  | EDI-INT – AS2 (HTTP)  *Include URL & certificates* |  |
|  | EDI-INT – AS3 (FTP)  *Include URL & certificates* |  |
|  | EDI-INT – AS4  (webservices) |  |
|  | Other (describe): |  |

Identify transactions being requested for exchange with Micron:

|  |  |  |
| --- | --- | --- |
| ANSI x12  ~ Micron is not limited to the following transactions ~  Please list the transactions your company wants to implement with Micron  *\*X12 example transactions*  *830 (Forecast) i-856 (Product Pull Notification)*  *832 (Price book) o-856 (Advance Ship Notice)*  *846 (Inventory Report) 860 (PO Change)*   * Hubs require inventory snapshot (daily), receipts, and pulls | | |
| Transaction | Version | Comments |
| *810 - Invoice* | *version 4010* | *example #1* |
| *846 (inventory Report)* |  |  |
| *i-856 (Product Pull Notification)* |  |  |
| *861 (Receipt Notification)* |  |  |

Provide EDI setup forms or specifications for the transactions:

|  |  |
| --- | --- |
| Documentation type: | *Link or document* |
| Implementation guides |  |
| Sample data \*required (one for each transaction requested) |  |
| Specifications \* required (one for each transaction requested) |  |
| Other |  |

**Functional Documentation by Transaction**

[Goods Receipt](#Goods_Receipts_Functional)

[Inventory Advice](#Inventory_Functional)

[Product Pull](#ASN_Functional)

**ANSI X12 Specification Documentation by Transaction**

[Goods Receipt](#Goods_Receipt)

[Inventory Advice](#Inventory_Report)

Product Pull

* [Advanced Ship Notification Inbound](#ASN_Inbound)
* [Advanced Ship Notification Outbound](#ASN_Outbound)

**Goods Receipt Functional Specification**

Micron requires a goods receipt transmission for every shipment received into each hub stockpile. We prefer to receive this data as near real-time as possible. Receiving real-time goods receipt information allows us to ensure that the current goods movement status in our ERP system best matches the current real status of the physical goods within each hub stockpile.

The Goods Receipt data can be sent to the Micron system using, in order of preference, the X12 (861), EDIFACT (RECADV) or RosettaNet (4B2) standards. If one of these electronic standards cannot be used, then an alternate data exchange tool like Micron’s proprietary Hub Inventory Tracking System (HITS) will need to be utilized.

The exact technical requirements for the Inventory Advice transmission are included in our provided B2B specifications document. That document includes the specific fields required for the given standard transaction. The data fields required for a goods receipt transmission are as follows:

* Micron requires a unique number identifying the shipment being received. The number passed to us in the goods receipt transmission should be the Micron delivery number for the shipment being received. This allows us to effectively match our outbound shipment information with the hub provider’s inbound receipt.
* Micron requires a warehouse code to uniquely identify both ship-from location and warehouse stockpile. This means that if material stockpiles for multiple customers are being stored at the same ship-from location, there needs to be a unique warehouse code sent to identify each customer’s stockpiled inventory and its associated goods receipt.
* Both the customer part number and the Micron part number need to be transmitted for each goods receipt.
* Micron also requires the quantity of each material received and accepted into the stockpile, and the date and time goods were received into the system.

Micron strongly prefers to receive box number information on the boxes being received into and shipped out of the stockpile. While this is optional data in the goods receipt transmission, we highly encourage our hub providers to send this data if capable. Having this data allows Micron to better tell which individual boxes remain in a stockpile location, which can be very important for tracking quality issues, product age, mis-ships, and any other issues.

|  |  |  |  |
| --- | --- | --- | --- |
| 861 |  |  |  |
| Data | Location | Element | Notes |
| Shipment ID Number | REF-02 | 127 | Where REF-01="SI" |
| Warehouse Code | N1-04 | 67 | Where N1-01="ST" |
| Customer Part Number | LIN-05 | 234 | Where LIN-04="BP" |
| Micron Part Number | LIN-03 | 234 | Where LIN-02="VP" |
| Quantity Received | RCD-02 | 663 |  |
| Box Number | MAN-02 | 87 | Where MAN-01="CA" |

|  |  |  |  |
| --- | --- | --- | --- |
| RECADV |  |  |  |
| Data | Location | Element | Notes |
| Shipment ID Number | BGM-02:02 | 1004 |  |
| Warehouse Code | NAD-02:02 | 3039 | Where NAD-01="WH" |
| Customer Part Number | LIN-02:01 | 7140 | Where LIN-02:02="BP" |
| Micron Part Number | PIA-02:01 | 7140 | Where PIA-02:02="VP" |
| Quantity Received | QTY-01:03 | 6060 | Where QTY-01:02="48" |
| Box Number | RFF-01:02 | 1154 | Where REF-01:01="SRN" |

|  |  |
| --- | --- |
| 4B2 |  |
| Data | Location |
| Shipment ID Number | thisDocumentIdentifier.ProprietaryDocumentIdentifier |
| Warehouse Code | ShipmentReceiptInformationResource -> receivedBy.PartnerDescription -> BusinessDescription -> PartnerBusinessIdentification -> ProprietaryBusinessIdentifier |
| Customer Part Number | ShipmentReceiptInformationResource -> ShipmentReceiptNotificationLineItem -> ProductIdentification -> PartnerProductIdentification |
| Micron Part Number | ShipmentReceiptInformationResource -> ShipmentReceiptNotificationLineItem -> ProductIdentification -> GlobalProductIdentifier |
| Quantity Received | ShipmentReceiptInformationResource -> ShipmentReceiptNotificationLineItem -> QuantityInformation -> acceptedQuantity.ProductQuantity |
| Box Number | ShipmentReceiptInformationResource -> ShipmentReceiptNotificationLineItem -> ManufacturerProfile -> receivedProductSerialNumber.ProprietarySerialIdentifier |

Please contact the Micron EDI team at [EDI@micron.com](mailto:EDI@micron.com) if there are questions regarding this document or regarding the included transaction specifications document.

**Inventory Advice Functional Specification**

Micron requires an end of business inventory report each day for our hub stockpiles. Micron uses the Inventory Advice transaction to reconcile the reported consignment inventory with Micron’s systematic snapshot of inventory. The inventory data can be sent to the Micron system using, in order of preference, the X12 (846), EDIFACT (INVRPT) or RosettaNet (4C1) standards. If one of these electronic standards cannot be used, then an alternate data exchange tool like Micron’s proprietary Hub Inventory Tracking System (HITS) will need to be utilized.

Micron requires one inventory snapshot send containing end-of-day inventory quantities for all materials within a single EDI GS/GE or UNB/UNZ looping structure, or in an individual RosettaNet PIP. This ensures that we can effectively match inventory and goods movement data up with a single end-of-day snapshot.

The exact technical requirements for the Inventory Advice transmission are included in our provided B2B specifications document. That document includes the specific fields required for the given standard transaction. The data fields required for an inventory transmission are as follows:

* Micron requires a warehouse code to uniquely identify both ship-from location and warehouse stockpile. This means that if material stockpiles for multiple customers are being stored at the same ship-from location, there needs to be a unique warehouse code sent to identify each individual customer’s stockpiled inventory.
* Both the customer part number and the Micron part number need to be transmitted for each inventory line.
* Micron also requires that the current summed quantity on hand at the time of the inventory snapshot be included for each material.

|  |  |  |  |
| --- | --- | --- | --- |
| 846 |  |  |  |
| Data | Location | Element | Notes |
| Warehouse Code | N1-04 | 67 | Where N1-04="WH" |
| Customer Part Number | LIN-03 | 234 | Where LIN-02="BP" |
| Micron Part Number | LIN-05 | 234 | Where LIN-04="VP" |
| Quantity On Hand | QTY-02 | 380 | Where QTY-01="17" |

|  |  |  |  |
| --- | --- | --- | --- |
| INVRPT |  |  |  |
| Data | Location | Element | Notes |
| Warehouse Code | NAD-02:02 | 3039 | Where NAD-01="WH" |
| Customer Part Number | LIN-02:01 | 7140 | Where LIN-02:02="BP" |
| Micron Part Number | PIA-02:01 | 7140 | Where PIA-02:02="VP" |
| Quantity On Hand | QTY-01:03 | 6060 | Where QTY-01:02="17" |

|  |  |
| --- | --- |
| 4C1 |  |
| Data | Location |
| Warehouse Code | Inventory Report -> inventoryLocation.PartnerDescription -> BusinessDescription -> PartnerBusinessIdentification -> ProprietaryBusinessIdentifier |
| Customer Part Number | Inventory Report -> InventoryReportLineItem -> ProductIdentification -> PartnerProductIdentification -> ProprietaryProductIdentifier |
| Micron Part Number | Inventory Report -> InventoryReportLineItem -> ProductIdentification -> GlobalProductIdentifier |
| Quantity On Hand | Inventory Report -> InventoryReportLineItem -> ProductIdentification |

Please contact the Micron EDI team at [EDI@micron.com](mailto:EDI@micron.com) if there are questions regarding this document or regarding the included transaction specifications document.

**Product Pull (Ship Notice) Functional Specification**

Micron requires a product pull transmission for every consumption of Micron product pulled out of each hub stockpile. We prefer to receive this data as near real-time as possible. Receiving real-time product pull information allows Micron to ensure that the current goods movement status in our ERP system best matches the current real status of the physical goods within each hub stockpile.

The product pull data can be sent to the Micron system using, in order of preference, the X12 (856), EDIFACT (DESADV) or RosettaNet (3B2) standards. If one of these electronic standards cannot be used, then an alternate data exchange tool like Micron’s proprietary Hub Inventory Tracking System (HITS) will need to be utilized.

The exact technical requirements for the product pull transmission are included in our provided B2B specifications document. That document includes the specific fields required for the given standard transaction. The data fields required for a product pull transmission are as follows:

* Micron requires a unique pull reference number identifying the consumption. Alternatively, this may be a discrete purchase order number provided by the customer. This number will be tracked and referenced on the customer invoice associated with the consumption.
* Micron requires a warehouse code to uniquely identify both ship-from location and warehouse stockpile. This means that if material stockpiles for multiple customers are being stored at the same ship-from location, there needs to be a unique warehouse code sent to identify each customer’s stockpiled inventory and its associated product pull.
* Both the customer part number and the Micron part number need to be transmitted for each product pull.
* Micron requires the quantity of each material being shipped out of the stockpile, in addition to the date of the consumption.
* Micron requires the customer’s purchase order number. This information allows Micron to match up a given product pull with the sales order document and customer invoice in the Micron system.
* Micron requires any packing slip number included in the shipment to the customer be transmitted to the Micron system in the product pull for that shipment.

Micron would like to receive carrier details, if available so that our team can best track how specific shipping methods impact the customer’s goods receipt timing.

Micron would like to receive box number information on the boxes being shipped out of and received into the stockpile. While this is optional data in the product pull transmission, we highly encourage our hub providers to send this data if capable. Having this data allows Micron to better tell which individual parts remain in a stockpile location, which can be very important for tracking quality issues, product age, mis-ships, and any other issues.

|  |  |  |  |
| --- | --- | --- | --- |
| 856 |  |  |  |
| Data | Location | Element | Notes |
| Unique Pull Reference | BSN-02 | 353 |  |
| Warehouse Code | N1-04 | 67 | Where N1-01="SF" |
| Customer Part Number | LIN-05 | 234 | Where LIN-04="BP" |
| Micron Part Number | LIN-03 | 234 | Where LIN-02="VP |
| Quantity Shipped | SN1-02 | 382 |  |
| Consumption Date | DTM-02 | 373 | Where DTM-01="011" |
| Customer PO Number | PRF-01 | 324 |  |
| Packing Slip Number | REF-02 | 127 | Where REF-01="BM" |
| Transportation Method | TD5-03 | 67 | Where TD5-01="B" |
| Box Number | REF-02 | 127 | Where REF-01="SE" |

|  |  |  |  |
| --- | --- | --- | --- |
| DESADV |  |  |  |
| Data | Location | Element | Notes |
| Unique Pull Reference | BGM-02:02 | 1004 |  |
| Warehouse Code | NAD-02:02 | 3039 | Where NAD-01="WH" |
| Customer Part Number | LIN-02:01 | 7140 | Where LIN-02:02="BP" |
| Micron Part Number | PIA-02:01 | 7140 | Where PIA-02:02="VP" |
| Quantity Shipped | QTY-01:03 | 6060 | Where QTY-01:02="12" |
| Consumption Date | DTM-01:02 | 2380 | Where DTM-01:02="11" |
| Customer PO Number | RFF-01:02 | 1154 | Where REF-01:01="BE" |
| Packing Slip Number | RFF-01:02 | 1154 | Where REF-01:01="CO" |
| Transportation Method | TDT:03:01 | 3127 |  |
| Box Number | RFF-01:02 | 1154 | Where REF-01:01="SRN" |

|  |  |
| --- | --- |
| 3B2 |  |
| Data | Location |
| Unique Pull Reference | AdvancedShipmentNotification -> thisDocumentIdentifier.ProprietaryDocumentIdentifier |
| Warehouse Code | AdvancedShipmentNotification -> OriginatingPartner -> shipFrom.PartnerDescription -> BusinessDescription -> GlobalBusinessIdentifier |
| Customer Part Number | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> ShippingContainerItem -> ProductIdentification -> PartnerProductIdentification -> ProprietaryProductIdentifier |
| Micron Part Number | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> ShippingContainerItem -> ProductIdentification -> GlobalProductIdentifier |
| Quantity Shipped | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> ShippingContainerItem -> shippedQuantity.ProductQuantity |
| Consumption Date | AdvancedShipmentNotification -> Shipment -> ShipmentTransportationEvent -> DateStamp |
| Customer PO Number | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> TrackingReference -> ProprietaryShipmentTrackingIdentifier |
| Packing Slip Number | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> TrackingReference -> ProprietaryShipmentTrackingIdentifier |
| Transportation Method | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> transportedBy.PartnerDescription -> BusinessDescription -> PartnerBusinessIdentification -> ProprietaryBusinessIdentifier |
| Box Number | AdvancedShipmentNotification -> Shipment -> ShippingContainer -> ShippingContainerItem -> shippingContainerItemIdentifier.ProprietarySerialIdentifier |

Please contact the Micron EDI team at [EDI@micron.com](mailto:EDI@micron.com) if there are questions regarding this document or regarding the included transaction specifications document.

**861 Receiving Advice/Acceptance Certificate**

**Functional Group ID=RC**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Receiving Advice/Acceptance Certificate Transaction Set (861) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the notification of receipt or formal acceptance of goods and services.

**Heading:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| M | **Pos. No.**  010 | **Seg. ID** ST | **Name**  Transaction Set Header | **Req. Des.** M | **Max.Use**  1 | **Loop**  **Repeat** |
| M | 020 | BRA | Beginning Segment for Receiving Advice or  Acceptance Certificate | M | 1 |  |
| Must Use | 050 | REF | Reference Identification | O | >1 |  |
| M | 070 | DTM | Date/Time Reference | M | 10 |  |
|  |  |  | LOOP ID - N1 |  |  | 200 |
| Must Use | 130 | N1 | Name | O | 1 |  |

**Detail:**

**Pos. Seg. Req. Loop**

**No. ID Name Des. Max.Use Repeat**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | LOOP ID - RCD |  |  | 200000 |
| Must Use 010 | RCD | Receiving Conditions | O | 1 |  |
| Must Use 040 | LIN | Item Identification | O | 100 |  |
| Must Use 180 | MAN | Marks and Numbers | O | >1 |  |
| **Summary:** |  |  |  |  |  |
| **Pos. No.** | **Seg. ID** | **Name** | **Req. Des.** | **Max.Use** | **Loop**  **Repeat** |
| Must Use 010 | CTT | Transaction Totals | O | 1 |  |
| M 020 | SE | Transaction Set Trailer | M | 1 |  |

**Segment: ST 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

**Business Rules:** Variable Name: STST

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M ST01 143 Transaction Set Identifier Code M ID 3/3**

Code uniquely identifying a Transaction Set

861 Receiving Advice/Acceptance Certificate

**M ST02 329 Transaction Set Control Number M AN 4/9**

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

**Segment: BRA Beginning Segment for Receiving Advice or Acceptance Certificate**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of a Receiving Advice or Acceptance Certificate

Transaction Set and transmit an identifying number, date, and time

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M BRA01 127 Reference Identification M AN 1/30**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **M** | **BRA02** | **373** | **Date**  Date expressed as CCYYMMDD | **M** | **DT 8/8** |
| **M** | **BRA03** | **353** | **Transaction Set Purpose Code** | **M** | **ID 2/2** |
|  |  |  | Code identifying purpose of transaction set |  |  |
|  |  |  | 38 No Financial Value |  |  |
| **M** | **BRA04** | **962** | **Receiving Advice or Acceptance Certificate Type**  **Code** | **M** | **ID 1/1** |
|  |  |  | Code specifying type of receiving advice |  |  |
|  |  |  | 1 Receiving Dock Advice |  |  |
| **>>** | **BRA05** | **337** | **Time** | **O** | **TM 4/8** |

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)

**>> BRA06 412 Receiving Condition Code O ID 2/2**

Code designating physical condition or status of units received in a specific shipment

07 Good Condition

**Segment: REF Reference Identification**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional (Must Use)

**Max Use:** >1

**Purpose:** To specify identifying information

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M REF01 128 Reference Identification Qualifier M ID 2/3**

Code qualifying the Reference Identification

SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the

shipper to identify the shipment

**>> REF02 127 Reference Identification X AN 1/30**

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

REF\*SI should contain the Micron delivery number.

**Segment: DTM Date/Time Reference**

**Position:** 070

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M DTM01 374 Date/Time Qualifier M ID 3/3**

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

050 Received

**>> DTM02 373 Date X DT 8/8**

Date expressed as CCYYMMDD

**>> DTM03 337 Time X TM 4/8**

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)

**>> DTM04 623 Time Code O ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

CT Central Time

**Segment: N1 Name**

**Position:** 130

**Loop:** N1 Optional (Must Use)

**Level:** Heading

**Usage:** Optional (Must Use)

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M N101 98 Entity Identifier Code M ID 2/3**

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

N1\*ST should contain a code to uniquely identify both ship from location and stockpile.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | BY | Buying Party (Purchaser) |  |
| SF | Ship From |  |
| **>>** | **N102** | **93** | ST  **Name** | Ship To | **X AN 1/60** |

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)

92 Assigned by Buyer or Buyer's Agent

93 Code assigned by the organization originating the transaction set

**>> N104 67 Identification Code X AN 2/80**

Code identifying a party or other code

**Segment: RCD Receiving Conditions**

**Position:** 010

**Loop:** RCD Optional (Must Use)

**Level:** Detail

**Usage:** Optional (Must Use)

**Max Use:** 1

**Purpose:** To report receiving conditions and specify contested quantities

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**>> RCD02 663 Quantity Units Received or Accepted X R 1/9**

Number of Units Received or Accepted

**>> RCD03 C001 Composite Unit of Measure X**

To identify a composite unit of measure (See Figures Appendix for examples of use)

**M C00101 355 Unit or Basis for Measurement Code M ID 2/2**

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

EA Each

**Segment: LIN Item Identification**

**Position:** 040

**Loop:** RCD Optional (Must Use)

**Level:** Detail

**Usage:** Optional (Must Use)

**Max Use:** 100

**Purpose:** To specify basic item identification data

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**>> LIN01 350 Assigned Identification O AN 1/20**

Alphanumeric characters assigned for differentiation within a transaction set

**M LIN02 235 Product/Service ID Qualifier M ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

VP Vendor's (Seller's) Part Number

**M LIN03 234 Product/Service ID M AN 1/48**

Identifying number for a product or service

**>> LIN04 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

BP Buyer's Part Number

**>> LIN05 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

**Segment: MAN Marks and Numbers**

**Position:** 180

**Loop:** RCD Optional (Must Use)

**Level:** Detail

**Usage:** Optional (Must Use)

**Max Use:** >1

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

**Notes:** Box information is optional, but preferred.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M MAN01 88 Marks and Numbers Qualifier M ID 1/2**

Code specifying the application or source of Marks and Numbers (87) CA Shipper-Assigned Case Number

Number identifying unit shipped

**M MAN02 87 Marks and Numbers M AN 1/48**

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

**Segment: CTT Transaction Totals**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Optional (Must Use)

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M CTT01 354 Number of Line Items M N0 1/6**

Total number of line items in the transaction set

**>> CTT02 347 Hash Total O R 1/10**

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. Example:

-.0018 First occurrence of value being hashed.

.18 Second occurrence of value being hashed.

1.8 Third occurrence of value being hashed.

18.01 Fourth occurrence of value being hashed.

---------

1855 Hash total prior to truncation.

855 Hash total after truncation to three-digit field.

**Segment: SE Transaction Set Trailer**

**Position:** 020

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M SE01 96 Number of Included Segments M N0 1/10**

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

SE segments

**M SE02 329 Transaction Set Control Number M AN 4/9**

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

**846 Inventory Inquiry/Advice**

**Functional Group ID=IB**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information

to that seller; (3) for one location to supply another location with inventory information; and (4) for an

inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

**Notes:**

We need one inventory snapshot sent containing end of day inventory for all materials, with only one GS/GE

loop.

**Heading:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Pos.** | **Seg.** |  | **Req.** |  | **Loop** |  |
| **No.** | **ID** | **Name** | **Des.** | **Max.Use** | **Repeat** |
| M | 010 | ST | Transaction Set Header | M | 1 |  |
| M | 020 | BIA | Beginning Segment for Inventory  Inquiry/Advice | M | 1 |  |
|  |  |  | LOOP ID - N1 |  |  |  | 5 |
| M | 080 | N1 | Name | M | 1 |  |  |

**Detail:**

**Pos. Seg. Req. Loop**

**No. ID Name Des. Max.Use Repeat**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | LOOP ID - LIN |  |  | 10000 |
| M 010 | LIN | Item Identification | M | 1 |  |
|  |  | LOOP ID - QTY |  |  | 99 |
| M 320 | QTY | Quantity | M | 1 |  |
| **Summary:** |  |  |  |  |  |
| **Pos. No.** | **Seg. ID** | **Name** | **Req. Des.** | **Max.Use** | **Loop**  **Repeat** |
| Must Use 010 | CTT | Transaction Totals | O | 1 |  |
| M 020 | SE | Transaction Set Trailer | M | 1 |  |

**Segment: ST 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

**Business Rules:** Variable Name: STST

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M ST01 143 Transaction Set Identifier Code M ID 3/3**

Code uniquely identifying a Transaction Set

846 Inventory Inquiry/Advice

**M ST02 329 Transaction Set Control Number M AN 4/9**

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

**Segment: BIA Beginning Segment for Inventory Inquiry/Advice**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of an Inventory Inquiry/Advice Transaction Set

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M BIA01 353 Transaction Set Purpose Code M ID 2/2**

Code identifying purpose of transaction set

00 Original

**M BIA02 755 Report Type Code M ID 2/2**

Code indicating the title or contents of a document, report or supporting item

MB Manufacturer/Distributor Inventory Report

**M BIA03 127 Reference Identification M AN 1/30**

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

**M BIA04 373 Date M DT 8/8**

Date expressed as CCYYMMDD

**>> BIA05 337 Time O TM 4/8**

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)

**Segment: N1 Name**

**Position:** 080

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Notes:** N1\*WH should contain a code to uniquely identify both ship from location and stockpile.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M N101 98 Entity Identifier Code M ID 2/3**

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

BY Buying Party (Purchaser) SU Supplier/Manufacturer WH Warehouse

**>> N102 93 Name X AN 1/60**

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)

92 Assigned by Buyer or Buyer's Agent

**>> N104 67 Identification Code X AN 2/80**

Code identifying a party or other code

**Segment: LIN Item Identification**

**Position:** 010

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Notes:** LIN should contain both Customer material and Micron Material Description.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M LIN02 235 Product/Service ID Qualifier M ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

BP Buyer's Part Number

**M LIN03 234 Product/Service ID M AN 1/48**

Identifying number for a product or service

**>> LIN04 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

VP Vendor's (Seller's) Part Number

**>> LIN05 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

**Segment: QTY Quantity**

**Position:** 320

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify quantity information

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M QTY01 673 Quantity Qualifier M ID 2/2**

Code specifying the type of quantity

17 Quantity on Hand

**>> QTY02 380 Quantity X R 1/15**

Numeric value of quantity

**>> QTY03 C001 Composite Unit of Measure O**

To identify a composite unit of measure (See Figures Appendix for examples of use)

**M C00101 355 Unit or Basis for Measurement Code M ID 2/2**

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

PC Piece

**Segment: CTT Transaction Totals**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Optional (Must Use)

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M CTT01 354 Number of Line Items M N0 1/6**

Total number of line items in the transaction set

**Segment: SE Transaction Set Trailer**

**Position:** 020

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M SE01 96 Number of Included Segments M N0 1/10**

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

SE segments

**M SE02 329 Transaction Set Control Number M AN 4/9**

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

**856 Ship Notice/Manifest**

**Functional Group ID=SH**

**Introduction:**

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. Seg. Req. Loop**

**No. ID Name Des. Max.Use Repeat**

M 010 ST Transaction Set Header M 1

M 020 BSN Beginning Segment for Ship Notice M 1

M 040 DTM Date/Time Reference M 10

**Detail:**

**Pos. Seg. Req. Loop**

**No. ID Name Des. Max.Use Repeat**

LOOP ID - HL 200000

M 010 HL Hierarchical Level M 1

M 020 LIN Item Identification M 1

M 030 SN1 Item Detail (Shipment) M 1

M 050 PRF Purchase Order Reference M 1

120 TD5 Carrier Details (Routing Sequence/Transit

Time)

O 12

150 REF Reference Identification O >1

LOOP ID - N1 200

M 220 N1 Name M 1

**Summary:**

**Pos. Seg. Req. Loop**

**No. ID Name Des. Max.Use Repeat**

Must Use 010 CTT Transaction Totals O 1

M 020 SE Transaction Set Trailer M 1

**Segment: ST 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

**Business Rules:** Variable Name: STST

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M ST01 143 Transaction Set Identifier Code M ID 3/3**

Code uniquely identifying a Transaction Set

856 Ship Notice/Manifest

**M ST02 329 Transaction Set Control Number M AN 4/9**

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

**Segment: BSN Beginning Segment for Ship Notice**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M BSN01 353 Transaction Set Purpose Code M ID 2/2**

Code identifying purpose of transaction set

00 Original

**M BSN02 396 Shipment Identification M AN 2/30**

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

**M BSN03 373 Date M DT 8/8**

Date expressed as CCYYMMDD

**M BSN04 337 Time M TM 4/8**

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)

**Segment: DTM Date/Time Reference**

**Position:** 040

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M DTM01 374 Date/Time Qualifier M ID 3/3**

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

011 Shipped

**>> DTM02 373 Date X DT 8/8**

Date expressed as CCYYMMDD

**Segment: HL 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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M HL01 628 Hierarchical ID Number M AN 1/12**

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**

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

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

Code defining the characteristic of a level in a hierarchical structure

I Item

P Pack

S Shipment

**>> HL04 736 Hierarchical Child Code O ID 1/1**

Code indicating if there are hierarchical child data segments subordinate to the level being described

0 No Subordinate HL Segment in This Hierarchical

Structure.

1 Additional Subordinate HL Data Segment in This

Hierarchical Structure.

**Segment: LIN Item Identification**

**Position:** 020

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Notes:** Both Buyer Part and vendor part are required

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**>> LIN01 350 Assigned Identification O AN 1/20**

Alphanumeric characters assigned for differentiation within a transaction set

**M LIN02 235 Product/Service ID Qualifier M ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

VP Vendor's (Seller's) Part Number

Micron material description

**M LIN03 234 Product/Service ID M AN 1/48**

Identifying number for a product or service

**>> LIN04 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

BP Buyer's Part Number

**>> LIN05 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

**Segment: SN1 Item Detail (Shipment) Position:** 030

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify line-item detail relative to shipment

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**>> SN101 350 Assigned Identification O AN 1/20**

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

EA Each

**Segment: PRF Purchase Order Reference**

**Position:** 050

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To provide reference to a specific purchase order

**Notes:** PRF to contain customer PO number

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M PRF01 324 Purchase Order Number M AN 1/22**

Identifying number for Purchase Order assigned by the orderer/purchaser

**>> PRF04 373 Date O DT 8/8**

Date expressed as CCYYMMDD

**Segment: TD5 Carrier Details (Routing Sequence/Transit Time) Position:** 120

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time information

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**>> TD501 133 Routing Sequence Code O ID 1/2**

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

B Origin/Delivery Carrier (Any Mode)

**>> TD502 66 Identification Code Qualifier X ID 1/2**

Code designating the system/method of code structure used for

Identification Code (67)

92 Assigned by Buyer or Buyer's Agent

**>> TD503 67 Identification Code X AN 2/80**

Code identifying a party or other code

**>> TD504 91 Transportation Method/Type Code X ID 1/2**

Code specifying the method or type of transportation for the shipment

A Air

M Motor (Common Carrier)

**>> TD505 387 Routing X AN 1/35**

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

**Segment: REF Reference Identification**

**Position:** 150

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M REF01 128 Reference Identification Qualifier M ID 2/3**

Code qualifying the Reference Identification

BM Bill of Lading Number

REF\*BM is optional SE Serial Number

box information is optional, but preferred. SI Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the shipper to identify the shipment

REF\*SI to be unique pull reference number. If a unique pull reference number then it is required in this field, otherwise this item will not be included.

**>> REF02 127 Reference Identification X AN 1/30**

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

**Segment: N1 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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M N101 98 Entity Identifier Code M ID 2/3**

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

EN End User

End Customer - Required if hub is shipping to multiple end customers.

SF Ship From

N1\*SF should contain a code to uniquely identify both ship from location and stockpile.

ST Ship To

N1\*ST will contain data identifying the EMS, if applicable.

SU Supplier/Manufacturer

**>> N102 93 Name X AN 1/60**

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)

92 Assigned by Buyer or Buyer's Agent

**>> N104 67 Identification Code X AN 2/80**

Code identifying a party or other code

**Segment: CTT Transaction Totals**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Optional (Must Use)

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M CTT01 354 Number of Line Items M N0 1/6**

Total number of line items in the transaction set

**Segment: SE Transaction Set Trailer**

**Position:** 020

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M SE01 96 Number of Included Segments M N0 1/10**

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

SE segments

**M SE02 329 Transaction Set Control Number M AN 4/9**

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

**856 Ship Notice/Manifest**

**Functional Group ID=SH**

**Introduction:**

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. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

M 010 ST Transaction Set Header M 1

M 020 BSN Beginning Segment for Ship Notice M 1

Must Use 040 DTM Date/Time Reference O 10

**Detail:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

LOOP ID - HL 200000

M 010 HL Hierarchical Level M 1 c1

020 LIN Item Identification O 1

030 SN1 Item Detail (Shipment) O 1

040 SLN Subline Item Detail O 1000

050 PRF Purchase Order Reference O 1

120 TD5 Carrier Details (Routing Sequence/Transit

Time)

O 12

150 REF Reference Identification O >1

LOOP ID - N1 200

220 N1 Name O 1

**Summary:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

Must Use 010 CTT Transaction Totals O 1 n1

M 020 SE Transaction Set Trailer M 1

**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.

**Segment: ST 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

**Semantic Notes: 1** 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).

**Business Rules:** Variable Name: STST

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M ST01 143 Transaction Set Identifier Code M ID 3/3**

Code uniquely identifying a Transaction Set

856 Ship Notice/Manifest

**M ST02 329 Transaction Set Control Number M AN 4/9**

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

**Segment: BSN Beginning Segment for Ship Notice**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Semantic Notes: 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.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M BSN01 353 Transaction Set Purpose Code M ID 2/2**

Code identifying purpose of transaction set

00 Original

**M BSN02 396 Shipment Identification M AN 2/30**

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

**M BSN03 373 Date M DT 8/8**

Date expressed as CCYYMMDD

**M BSN04 337 Time M TM 4/8**

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)

**Segment: DTM Date/Time Reference**

**Position:** 040

**Loop:**

**Level:** Heading

**Usage:** Optional (Must Use)

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Semantic Notes:**

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M DTM01 374 Date/Time Qualifier M ID 3/3**

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

011 Shipped

**Must Use DTM02 373 Date X DT 8/8**

Date expressed as CCYYMMDD

**Segment: HL 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

**Semantic Notes:**

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M HL01 628 Hierarchical ID Number M AN 1/12**

A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

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

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

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

Code defining the characteristic of a level in a hierarchical structure

I Item

S Shipment

**Must Use HL04 736 Hierarchical Child Code O ID 1/1**

Code indicating if there are hierarchical child data segments subordinate to the level being described

0 No Subordinate HL Segment in This Hierarchical

Structure.

1 Additional Subordinate HL Data Segment in This

Hierarchical Structure.

**Segment: LIN Item Identification**

**Position:** 020

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Semantic Notes: 1** LIN01 is the line item identification

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**Must Use LIN01 350 Assigned Identification O AN 1/20**

Alphanumeric characters assigned for differentiation within a transaction set

**M LIN02 235 Product/Service ID Qualifier M ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

VP Vendor's (Seller's) Part Number

**M LIN03 234 Product/Service ID M AN 1/48**

Identifying number for a product or service

**Must Use LIN04 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

BP Buyer's Part Number

**Must Use LIN05 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

**Segment: SN1 Item Detail (Shipment) Position:** 030

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify line-item detail relative to shipment

**Semantic Notes: 1** SN101 is the ship notice line-item identification.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**Must Use SN101 350 Assigned Identification O AN 1/20**

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

EA Each

**Segment: SLN Subline Item Detail**

**Position:** 040

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1000

**Purpose:** To specify product subline detail item data

**Semantic Notes: 1** SLN01 is the identifying number for the subline item.

**2** SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

**3** SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

**4** SLN08 is a code indicating the relationship of the price or amount to the associated segment.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M SLN01 350 Assigned Identification M AN 1/20**

Alphanumeric characters assigned for differentiation within a transaction set

**M SLN03 662 Relationship Code M ID 1/1**

Code indicating the relationship between entities

I Included

**Must Use SLN04 380 Quantity X R 1/15**

Numeric value of quantity

**Must Use SLN05 C001 Composite Unit of Measure X**

To identify a composite unit of measure (See Figures Appendix for examples of use)

**M C00101 355 Unit or Basis for Measurement Code M ID 2/2**

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

EA Each

**Must Use SLN09 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

B8 Batch Number

**Must Use SLN10 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

**Segment: PRF Purchase Order Reference**

**Position:** 050

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To provide reference to a specific purchase order

**Semantic Notes: 1** PRF04 is the date assigned by the purchaser to purchase order.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M PRF01 324 Purchase Order Number M AN 1/22**

Identifying number for Purchase Order assigned by the orderer/purchaser

**Must Use PRF04 373 Date O DT 8/8**

Date expressed as CCYYMMDD

**Segment: TD5 Carrier Details (Routing Sequence/Transit Time) Position:** 120

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time information

**Semantic Notes: 1** TD515 is the country where the service is to be performed.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**Must Use TD501 133 Routing Sequence Code O ID 1/2**

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

B Origin/Delivery Carrier (Any Mode)

**Must Use TD502 66 Identification Code Qualifier X ID 1/2**

Code designating the system/method of code structure used for

Identification Code (67)

92 Assigned by Buyer or Buyer's Agent

**Must Use TD503 67 Identification Code X AN 2/80**

Code identifying a party or other code

**Must Use TD504 91 Transportation Method/Type Code X ID 1/2**

Code specifying the method or type of transportation for the shipment

A Air

M Motor (Common Carrier)

**Must Use TD505 387 Routing X AN 1/35**

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

**Segment: REF Reference Identification**

**Position:** 150

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Semantic Notes: 1** REF04 contains data relating to the value cited in REF02.

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M REF01 128 Reference Identification Qualifier M ID 2/3**

Code qualifying the Reference Identification

PK Packing List Number

**Must Use REF02 127 Reference Identification X AN 1/30**

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

**Segment: N1 Name**

**Position:** 220

**Loop:** N1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Semantic Notes:**

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M N101 98 Entity Identifier Code M ID 2/3**

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

SE Selling Party

ST Ship To

**Must Use N102 93 Name X AN 1/60**

Free-form name

**Must Use N103 66 Identification Code Qualifier X ID 1/2**

Code designating the system/method of code structure used for

Identification Code (67)

92 Assigned by Buyer or Buyer's Agent

**Must Use N104 67 Identification Code X AN 2/80**

Code identifying a party or other code

**Segment: CTT Transaction Totals**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Optional (Must Use)

**Max Use:** 1

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

**Semantic Notes:**

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M CTT01 354 Number of Line Items M N0 1/6**

Total number of line items in the transaction set

**Segment: SE Transaction Set Trailer**

**Position:** 020

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Semantic Notes:**

**Ref. Data**

**Data Element Summary**

**Des. Element Name Attributes**

**M SE01 96 Number of Included Segments M N0 1/10**

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

SE segments

**M SE02 329 Transaction Set Control Number M AN 4/9**

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