



870 Order Status Report - Canada

VICS EDI

Version: 006030VICS

| | |
|---------------------|---|
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870 Order Status Report - Canada

Functional Group=RS

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Order Status Report Transaction Set (870) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to report on the current status of a requirement forecast, an entire purchase order, selected line items on a purchase order, selected products/services on a purchase order, or purchase orders for a specific customer in their entirety or on a selection basis. The transaction set can also be used to report on the current status of single or multiple requisitions. The report format allows for the inclusion of "reasons" relative to the status. This transaction set may also be used to update the supplier's scheduled shipment or delivery dates. This transaction set can result from either an inquiry or a prearranged schedule agreed to by the trading partners.

Note 1:

This is a functional profile of the 870 transaction for use in Canada.

Heading:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|--------------|--------------|-------------|
| 0100 | ST | Transaction Set Header | M | 1 | | | Must use | 6 |
| 0200 | BSR | Beginning Segment for Order Status Report | M | 1 | | | Must use | 7 |
| * 0420 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 0430 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 1 | | | | N/A |
| * 0440 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 1 | | | | N/A |
| * 0450 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * LOOP ID - REF | | | | | ≥1 | | | N/A |
| 0460 | REF | Reference Information | O | 1 | | | | N/A |
| * 0470 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| LOOP ID - N1 | | | | | 200 | | | 8 |
| 0500 | N1 | Party Identification | O | 1 | | | Used | 9 |
| * 0600 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 0700 | N3 | Party Location | O | 2 | | | | N/A |
| * 0800 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 0900 | REF | Reference Information | O | 12 | | | | N/A |
| * 1000 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 1050 | PWK | Paperwork | O | 1 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 1200 | LM | Code Source Information | O | 1 | | | | N/A |
| * 1300 | LQ | Industry Code Identification | M | 100 | | | | N/A |

Detail:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|---------------------|-----------|---------------------|------------|----------------|---------------|--------------|--------------|-------------|
| LOOP ID - HL | | | | | 1000 | | | 11 |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|---------------------|--------------|-------------|
| 0100 | HL | Hierarchical Level | M | 1 | | | Must use | 12 |
| 0200 | PRF | Purchase Order Reference | O | 1 | | | Must use | 13 |
| * LOOP ID - ISR | | | | | | <u>104</u> | | N/A |
| 0300 | ISR | Item Status Report | O | 1 | | | | N/A |
| * 0400 | PID | Product/Item Description | O | 6 | | | | N/A |
| * 0500 | QTY | Quantity Information | O | 4 | | | | N/A |
| * 0700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 0800 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 0860 | CS | Contract Summary | O | 3 | | N2/0860 | | N/A |
| * LOOP ID - REF | | | | | | <u>>1</u> | | N/A |
| 0870 | REF | Reference Information | O | 1 | | | | N/A |
| * 0880 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| * LOOP ID - N1 | | | | | | <u>200</u> | | N/A |
| 0900 | N1 | Party Identification | O | 1 | | | | N/A |
| 1000 | N2 | Additional Name Information | O | 2 | | | | N/A |
| 1100 | N3 | Party Location | O | 2 | | | | N/A |
| 1200 | N4 | Geographic Location | O | 1 | | | | N/A |
| 1300 | REF | Reference Information | O | 12 | | | | N/A |
| * 1400 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * LOOP ID - LM | | | | | | <u>10</u> | | N/A |
| * 1440 | LM | Code Source Information | O | 1 | | | | N/A |
| * 1450 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - PO1 | | | | | | <u>1000</u> | | N/A |
| * 1500 | PO1 | Baseline Item Data | O | 1 | | | | N/A |
| * 1550 | CUR | Currency | O | 1 | | | | N/A |
| * 1600 | SLN | Subline Item Detail | O | 100 | | | | N/A |
| * 1700 | PO3 | Additional Item Detail | O | 1 | | | | N/A |
| * 1800 | PID | Product/Item Description | O | 1000 | | | | N/A |
| * 1900 | MEA | Measurements | O | 40 | | | | N/A |
| * 2000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| * LOOP ID - ISR | | | | | | <u>104</u> | | N/A |
| * 2100 | ISR | Item Status Report | O | 1 | | | | N/A |
| * 2200 | PID | Product/Item Description | O | 6 | | | | N/A |
| * 2300 | QTY | Quantity Information | O | 4 | | | | N/A |
| * 2400 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 2500 | N1 | Party Identification | O | 1 | | | | N/A |
| * 2510 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 2520 | N3 | Party Location | O | 2 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|-----------------|--------------|-------------|
| * 2530 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 2600 | TD1 | Carrier Details (Quantity and Weight) | O | 1 | | | | N/A |
| * 2700 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 1 | | | | N/A |
| * 2800 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 2900 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 1 | | | | N/A |
| * 3000 | REF | Reference Information | O | 12 | | | | N/A |
| * 3100 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 3200 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3300 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - LX | | | | | ≥1 | N2/3400L | | N/A |
| * 3400 | LX | Transaction Set Line Number | O | 1 | | N2/3400 | | N/A |
| * 3500 | REF | Reference Information | O | >1 | | | | N/A |
| * 3600 | N1 | Party Identification | O | 1 | | | | N/A |
| * 3700 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 3800 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3900 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| LOOP ID - HL | | | | | 1000 | | | 14 |
| 0100 | HL | Hierarchical Level | M | 1 | | | Must use | 15 |
| * 0200 | PRF | Purchase Order Reference | O | 1 | | | | N/A |
| * LOOP ID - ISR | | | | | 104 | | | N/A |
| * 0300 | ISR | Item Status Report | O | 1 | | | | N/A |
| * 0400 | PID | Product/Item Description | O | 6 | | | | N/A |
| * 0500 | QTY | Quantity Information | O | 4 | | | | N/A |
| * 0700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 0800 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 0860 | CS | Contract Summary | O | 3 | | N2/0860 | | N/A |
| * LOOP ID - REF | | | | | ≥1 | | | N/A |
| * 0870 | REF | Reference Information | O | 1 | | | | N/A |
| * 0880 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| * LOOP ID - N1 | | | | | 200 | | | N/A |
| * 0900 | N1 | Party Identification | O | 1 | | | | N/A |
| * 1000 | N2 | Additional Name Information | O | 2 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|-----------------------|-----------|---|------------|----------------|---------------|--------------|-----------------|-------------|
| * 1100 | N3 | Party Location | O | 2 | | | | N/A |
| * 1200 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 1300 | REF | Reference Information | O | 12 | | | | N/A |
| * 1400 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * LOOP ID - LM | | | | | | | | N/A |
| | | | | | | 10 | | |
| * 1440 | LM | Code Source Information | O | 1 | | | | N/A |
| * 1450 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| LOOP ID - PO1 | | | | | | | | 16 |
| | | | | | | 1000 | | |
| 1500 | PO1 | Baseline Item Data | O | 1 | | | Used | 17 |
| * 1550 | CUR | Currency | O | 1 | | | | N/A |
| * 1600 | SLN | Subline Item Detail | O | 100 | | | | N/A |
| * 1700 | PO3 | Additional Item Detail | O | 1 | | | | N/A |
| * 1800 | PID | Product/Item Description | O | 1000 | | | | N/A |
| * 1900 | MEA | Measurements | O | 40 | | | | N/A |
| * 2000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| LOOP ID - ISR | | | | | | | | 19 |
| | | | | | | 104 | | |
| 2100 | ISR | Item Status Report | O | 1 | | | Must use | 20 |
| * 2200 | PID | Product/Item Description | O | 6 | | | | N/A |
| 2300 | QTY | Quantity Information | O | 4 | | | Used | 21 |
| * 2400 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 2500 | N1 | Party Identification | O | 1 | | | | N/A |
| * 2510 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 2520 | N3 | Party Location | O | 2 | | | | N/A |
| * 2530 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 2600 | TD1 | Carrier Details (Quantity and Weight) | O | 1 | | | | N/A |
| * 2700 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 1 | | | | N/A |
| * 2800 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 2900 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 1 | | | | N/A |
| 3000 | REF | Reference Information | O | 12 | | | Used | 23 |
| * 3100 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 | | | | N/A |
| * LOOP ID - LM | | | | | | | | N/A |
| | | | | | | 10 | | |
| * 3200 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3300 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - LX | | | | | | | | N/A |
| | | | | | | ≥1 | N2/3400L | |
| * 3400 | LX | Transaction Set Line Number | O | 1 | | | N2/3400 | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|-----------------------|-----------|------------------------------|------------|----------------|---------------|--------------|--------------|-------------|
| * 3500 | REF | Reference Information | O | >1 | | | | N/A |
| * 3600 | N1 | Party Identification | O | 1 | | | | N/A |
| * 3700 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 3800 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3900 | LQ | Industry Code Identification | M | 100 | | | | N/A |

Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------|-----------|-------------------------|------------|----------------|---------------|--------------|--------------|-------------|
| 0100 | CTT | Transaction Totals | O | 1 | | N3/0100 | Used | 24 |
| 0200 | SE | Transaction Set Trailer | M | 1 | | | Must use | 25 |

Notes:

- 2/0860 Use is limited to intra-organizational transactions.
- 2/3400L The LX loop conveys serial number, lot number, and inventory data.
- 2/3400 The LX loop conveys serial number, lot number, and inventory data.
- 2/0860 Use is limited to intra-organizational transactions.
- 2/3400L The LX loop conveys serial number, lot number, and inventory data.
- 2/3400 The LX loop conveys serial number, lot number, and inventory data.
- 3/0100 The 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 quantities ordered (PO102) for each PO1 segment.

ST Transaction Set Header

| | |
|---------------------|-------------|
| Pos: 0100 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------------------|------------|-------------|----------------|--------------|
| ST01 | 143 | Transaction Set Identifier Code | M | ID | 3/3 | Must use |

Description: Code identifying a Transaction Set

CodeList Summary (Total Codes: 321, Included: 1)

Code Name

870 Order Status Report

| | | | | | | |
|------|-----|--------------------------------|---|----|-----|----------|
| ST02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
|------|-----|--------------------------------|---|----|-----|----------|

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

Note 1: *The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.*

Semantics:

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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BSR Beginning Segment for Order Status Report

| | |
|---------------------|-------------|
| Pos: 0200 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 4 |

User Option (Usage): Must use

Purpose: To indicate the beginning of an Order Status Report Transaction Set

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
| BSR01 | 850 | Status Report Code | M | ID | 1/2 | Must use |

Description: Code indicating the reason for sending the report

CodeList Summary (Total Codes: 12, Included: 3)

Code Name

- 1 Response to an Order Status Inquiry (869)
- 2 Prearranged Schedule or Agreement
- 3 Unsolicited Report

| | | | | | | |
|-------|-----|-----------------|---|----|-----|----------|
| BSR02 | 847 | Order/Item Code | M | ID | 1/2 | Must use |
|-------|-----|-----------------|---|----|-----|----------|

Description: Code identifying a group of orders and items

CodeList Summary (Total Codes: 8, Included: 1)

Code Name

- PP Selected Orders - Selected Items

Note 1:

The item levels represent the status of only those specific items requested.

| | | | | | | |
|-------|-----|--------------------------|---|----|------|----------|
| BSR03 | 127 | Reference Identification | M | AN | 1/80 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

Note 1: Number assigned by the sender to identify the request within their application system

| | | | | | | |
|-------|-----|------|---|----|-----|----------|
| BSR04 | 373 | Date | M | DT | 8/8 | Must use |
|-------|-----|------|---|----|-----|----------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Semantics:

1. BSR03 indicates a status report document number assigned by the sender.
2. BSR04 indicates the date of this report from the sender.
3. BSR07 indicates the time of this report from the sender.
4. BSR08 indicates a status report document number assigned by the inquirer.
5. BSR09 indicates the date this report was requested from the sender by the inquirer.
6. BSR10 indicates the time this report was requested from the sender by the inquirer.

Loop Party Identification

| | |
|-----------|---------------|
| Pos: 0500 | Repeat: 200 |
| Optional | |
| Loop: N1 | Elements: N/A |

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|----------------------|------------|----------------|---------------|--------------|
| 0500 | N1 | Party Identification | O | 1 | | Used |

N1 Party Identification

| | |
|--------------------|-------------|
| Pos: 0500 | Max: 1 |
| Heading - Optional | |
| Loop: N1 | Elements: 4 |

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------|------------|-------------|----------------|--------------|
| N101 | 98 | Entity Identifier Code | M | ID | 2/3 | Must use |

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

CodeList Summary (Total Codes: 1527, Included: 1)

Code Name

SF Ship From

| | | | | | | |
|------|----|------|---|----|------|------|
| N102 | 93 | Name | X | AN | 1/60 | Used |
|------|----|------|---|----|------|------|

Description: Free-form name

| | | | | | | |
|------|----|-------------------------------|---|----|-----|----------|
| N103 | 66 | Identification Code Qualifier | X | ID | 1/2 | Must use |
|------|----|-------------------------------|---|----|-----|----------|

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

CodeList Summary (Total Codes: 255, Included: 7)

Code Name

1 D-U-N-S Number, Dun & Bradstreet

Note 1:

See External Code Source 16 in Section III for reference document.

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Note 1:

See External Code Source 16 in Section III for reference document.

21 Health Industry Number (HIN)

Note 1:

See External Code Source 121 in Section III for reference document.

91 Assigned by Seller or Seller's Agent

92 Assigned by Buyer or Buyer's Agent

UL Global Location Number (GLN)

Description: A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

Note 1:

This is the 13-digit Global Location Number (GLN).

See External Code Source 583 in Section III for reference document.

UM GS1 Global Location Number with Extension Component

Description: A globally unique 13-digit code with a one to twenty character extension component used, for the identification of a legal or physical location

| | | | | | | |
|------|----|---------------------|---|----|------|----------|
| N104 | 67 | Identification Code | X | AN | 2/80 | Must use |
|------|----|---------------------|---|----|------|----------|

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
|------------|-----------|---------------------|------------|-------------|----------------|--------------|

Description: Code identifying a party or other code

Note 1: *This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.*

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

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

Loop Hierarchical Level

| | |
|-----------|---------------|
| Pos: 0100 | Repeat: 1000 |
| Mandatory | |
| Loop: HL | Elements: N/A |

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--------------------------|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 0200 | PRF | Purchase Order Reference | O | 1 | | Must use |

HL Hierarchical Level

| | |
|--------------------|-------------|
| Pos: 0100 | Max: 1 |
| Detail - Mandatory | |
| Loop: HL | Elements: 2 |

User Option (Usage): Must use

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

Note 1:

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

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

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the order level HL segment (HL03 contains code O), since it has no parent. HL03 identifies the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Order and Item.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|--|-----------|--------------------------------|------------|-------------|----------------|--------------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use |
| Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | | | | |
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use |
| Description: Code specifying the characteristic of a level in a hierarchical structure | | | | | | |
| CodeList Summary (Total Codes: 251, Included: 1) | | | | | | |
| <u>Code</u> <u>Name</u> | | | | | | |
| O Order | | | | | | |

Comments:

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

PRF Purchase Order Reference

| | |
|-------------------|-------------|
| Pos: 0200 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 2 |

User Option (Usage): Must use

Purpose: To provide reference to a specific purchase order

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------|------------|-------------|----------------|--------------|
| PRF01 | 324 | Purchase Order Number | M | AN | 1/22 | Must use |

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

Note 1: *Retailer's original purchase order number*

| | | | | | | |
|-------|-----|-------------|---|----|-----|------|
| PRF04 | 373 | Date | O | DT | 8/8 | Used |
|-------|-----|-------------|---|----|-----|------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Note 1: *Retailer's original purchase order date*

Semantics:

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

Loop Item

| | |
|------------------|----------------------|
| Pos: 0100 | Repeat: 1000 |
| Mandatory | |
| Loop: HL | Elements: N/A |

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 1500 | | Loop PO1 | O | | 1000 | Used |

HL Hierarchical Level

| | |
|--------------------|-------------|
| Pos: 0100 | Max: 1 |
| Detail - Mandatory | |
| Loop: HL | Elements: 2 |

User Option (Usage): Must use

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

Note 1:

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

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

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the order level HL segment (HL03 contains code O), since it has no parent. HL03 identifies the application context of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Order and Item.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-------------------------------|------------|-------------|----------------|--------------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use |

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

| | | | | | | |
|------|-----|--------------------------------|---|----|-----|----------|
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use |
|------|-----|--------------------------------|---|----|-----|----------|

Description: Code defining the characteristic of a level in a hierarchical structure

CodeList Summary (Total Codes: 251, Included: 1)

Code Name

I Item

Loop Baseline Item Data

| | |
|-----------|---------------|
| Pos: 1500 | Repeat: 1000 |
| Optional | |
| Loop: PO1 | Elements: N/A |

User Option (Usage): Used

Purpose: To specify basic and most frequently used line item data

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|----------------|---------------|--------------|
| 1500 | PO1 | Baseline Item Data | O | 1 | | Used |
| 2100 | | Loop ISR | O | | 104 | Must use |

PO1 Baseline Item Data

| | |
|-------------------|-------------|
| Pos: 1500 | Max: 1 |
| Detail - Optional | |
| Loop: PO1 | Elements: 2 |

User Option (Usage): Used

Purpose: To specify basic and most frequently used line item data

Note 1:

There can be only one iteration of the PO1 loop at the item level to maintain a one-to-one relation between the PO1 segment and the item level HL segment.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------|------------|-------------|----------------|--------------|
| PO106 | 235 | Product/Service ID Qualifier | X | ID | 2/2 | Must use |

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

CodeList Summary (Total Codes: 546, Included: 5)

Code Name

CA Case

Note 1:

GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer’s shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

EO GTIN-8

Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

| | | | | | | |
|-------|-----|--------------------|---|----|------|----------|
| PO107 | 234 | Product/Service ID | X | AN | 1/80 | Must use |
|-------|-----|--------------------|---|----|------|----------|

Description: Identifying number for a product or service

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.
6. P1213 - If either PO112 or PO113 is present, then the other is required.
7. P1415 - If either PO114 or PO115 is present, then the other is required.
8. P1617 - If either PO116 or PO117 is present, then the other is required.

9. P1819 - If either PO118 or PO119 is present, then the other is required.
10. P2021 - If either PO120 or PO121 is present, then the other is required.
11. P2223 - If either PO122 or PO123 is present, then the other is required.
12. P2425 - If either PO124 or PO125 is present, then the other is required.

Semantics:

1. PO102 is quantity ordered.

Loop Item Status Report

| | |
|-----------|---------------|
| Pos: 2100 | Repeat: 104 |
| Optional | |
| Loop: ISR | Elements: N/A |

User Option (Usage): Must use

Purpose: To specify detailed purchase order/item status

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|-----------------------|------------|----------------|---------------|--------------|
| 2100 | ISR | Item Status Report | O | 1 | | Must use |
| 2300 | QTY | Quantity Information | O | 4 | | Used |
| 3000 | REF | Reference Information | O | 12 | | Used |

ISR Item Status Report

| | |
|-------------------|-------------|
| Pos: 2100 | Max: 1 |
| Detail - Optional | |
| Loop: ISR | Elements: 3 |

User Option (Usage): Must use

Purpose: To specify detailed purchase order/item status

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------------|------------|-------------|----------------|--------------|
| ISR01 | 368 | Shipment/Order Status Code | M | ID | 2/2 | Must use |

Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction

CodeList Summary (Total Codes: 102, Included: 5)

Code Name

- AS Available Now - Scheduled to Ship (date)
- DS Out Of Stock Condition
- ED Expect to Ship By (Date)
- EW Expect To Ship Week of (Date)
- IC Item Canceled

| | | | | | | |
|-------|-----|------|---|----|-----|------|
| ISR02 | 373 | Date | O | DT | 8/8 | Used |
|-------|-----|------|---|----|-----|------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Note 1: If ISR01 contains code AS, BP, CC, CP, ED, EW, RD or RW, ISR02 is required.

| | | | | | | |
|-------|-----|--------------------|---|----|-----|------|
| ISR03 | 641 | Status Reason Code | O | ID | 3/3 | Used |
|-------|-----|--------------------|---|----|-----|------|

Description: Code indicating the status reason

CodeList Summary (Total Codes: 438, Included: 3)

Code Name

- P03 Production Falldown
Description: Shipper held order for stock
- W01 Out of Stock
- W08 Material Shortage

Semantics:

- If ISR01 specifies a date, ISR02 is required.

QTY Quantity Information

Pos: 2300 Max: 4
 Detail - Optional
 Loop: ISR Elements: 3

User Option (Usage): Used

Purpose: To specify quantity information

Note 1:

This represents the quantity associated with the previous ISR segment.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
| QTY01 | 673 | Quantity Qualifier | M | ID | 2/2 | Must use |

Description: Code specifying the type of quantity

CodeList Summary (Total Codes: 1136, Included: 1)

Code Name

01 Discrete Quantity

| | | | | | | |
|-------|-----|----------|---|---|------|----------|
| QTY02 | 380 | Quantity | X | R | 1/15 | Must use |
|-------|-----|----------|---|---|------|----------|

Description: Numeric value of quantity

| | | | | | | |
|-------|------|---------------------------|---|------|--|------|
| QTY03 | C001 | Composite Unit of Measure | O | Comp | | Used |
|-------|------|---------------------------|---|------|--|------|

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

Comments:

1. If C001-02 is not used, its value is to be interpreted as 1.
2. If C001-03 is not used, its value is to be interpreted as 1.
3. If C001-05 is not used, its value is to be interpreted as 1.
4. If C001-06 is not used, its value is to be interpreted as 1.
5. If C001-08 is not used, its value is to be interpreted as 1.
6. If C001-09 is not used, its value is to be interpreted as 1.
7. If C001-11 is not used, its value is to be interpreted as 1.
8. If C001-12 is not used, its value is to be interpreted as 1.
9. If C001-14 is not used, its value is to be interpreted as 1.
10. If C001-15 is not used, its value is to be interpreted as 1.

| | | | | | | |
|----------|-----|------------------------------------|---|----|-----|----------|
| QTY03-01 | 355 | Unit or Basis for Measurement Code | M | ID | 2/2 | Must use |
|----------|-----|------------------------------------|---|----|-----|----------|

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

CodeList Summary (Total Codes: 903, Included: 5)

Code Name

BO Bottle
 BX Box
 CA Case
 EA Each
 PL Pallet/Unit Load

Syntax Rules:

1. E0204 - Only one of QTY02 or QTY04 may be present.
2. R0204 - At least one of QTY02 or QTY04 is required.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

REF Reference Information

| | |
|-------------------|-------------|
| Pos: 3000 | Max: 12 |
| Detail - Optional | |
| Loop: ISR | Elements: 2 |

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| REF01 | 128 | Reference Identification Qualifier | M | ID | 2/3 | Must use |

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1817, Included: 1)

Code Name

CO Customer Order Number

Note 1:

Customer of retailer

| | | | | | | |
|-------|-----|--------------------------|---|----|------|----------|
| REF02 | 127 | Reference Identification | X | AN | 1/80 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

CTT Transaction Totals

| | |
|--------------------|-------------|
| Pos: 0100 | Max: 1 |
| Summary - Optional | |
| Loop: N/A | Elements: 1 |

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------|------------|-------------|----------------|--------------|
| CTT01 | 354 | Number of Line Items | M | N0 | 1/6 | Must use |

Description: Total number of line items in the transaction set

Note 1: *The number of HL segments present in the transaction set*

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

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

SE Transaction Set Trailer

| | |
|---------------------|-------------|
| Pos: 0200 | Max: 1 |
| Summary - Mandatory | |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| SE01 | 96 | Number of Included Segments | M | N0 | 1/10 | Must use |

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

| | | | | | | |
|------|-----|---------------------------------------|---|----|-----|----------|
| SE02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
|------|-----|---------------------------------------|---|----|-----|----------|

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

Note 1: *This must be the same number as is in the ST segment (ST02) for the transaction set.*

Comments:

- SE is the last segment of each transaction set.