

# **870 Order Status Report - Canada**

VICS EDI

**Version: 005030VICS**

<b>Author:</b>	<b>GS1 US and GS1 Canada</b>
<b>Company:</b>	
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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.

### User 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>
0100	ST	Transaction Set Header	M	1			Must use
0200	BSR	Beginning Segment for Order Status Report	M	1			Must use
<b>LOOP ID - N1</b>					<b>200</b>		
0500	N1	Party Identification	O	1			Used

### 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>
<b>LOOP ID - HL</b>					<b>1000</b>		
0100	HL	Hierarchical Level	M	1			Must use
0200	PRF	Purchase Order Reference	O	1			Must use
<b>LOOP ID - HL</b>					<b>1000</b>		
0100	HL	Hierarchical Level	M	1			Must use
<b>LOOP ID - PO1</b>					<b>1000</b>		
1500	PO1	Baseline Item Data	O	1			Must use
<b>LOOP ID - ISR</b>					<b>104</b>		
2100	ISR	Item Status Report	O	1			Must use
2300	QTY	Quantity Information	O	4			Used
3000	REF	Reference Information	O	12			Used

### 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>
0100	CTT	Transaction Totals	O	1		N3/0100	Used
0200	SE	Transaction Set Trailer	M	1			Must use

### Notes:

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 uniquely identifying a Transaction Set

**Code List Summary** (Total Codes: 318, Included: 1)

**Code Name**

870 Order Status Report

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

**User 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

**Code List 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
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**Description:** Code identifying a group of orders and items

**Code List Summary** (Total Codes: 8, Included: 1)

**Code Name**

PP	Selected Orders - Selected Items
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**User Note 1:**

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

BSR03	127	Reference Identification	M	AN	1/50	Must use
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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

BSR04	373	Date	M	DT	8/8	Must use
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**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

**Code List Summary** (Total Codes: 1504, Included: 1)

**Code Name**

SF Ship From

N102	93	Name	X	AN	1/60	Used
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**Description:** Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Must use
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**Description:** Code designating the system/method of code structure used for Identification Code (67)

**Code List Summary** (Total Codes: 249, Included: 6)

**Code Name**

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

**User 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

**User Note 1:**

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

21 Health Industry Number (HIN)

**User 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 13 digit Global Location Number (GLN).

**User Note 1:**

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

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

N104	67	Identification Code	X	AN	2/80	Must use
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**Description:** Code identifying a party or other code

**User 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.



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# Loop Order

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

<b>Pos: 0100</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

## User 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	<b>Hierarchical ID Number</b>	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	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use
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**Description:** Code defining the characteristic of a level in a hierarchical structure

**Code List Summary** (Total Codes: 250, Included: 1)

**Code Name**

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	<b>Purchase Order Number</b>	M	AN	1/22	Must use

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

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

PRF04	373	<b>Date</b>	O	DT	8/8	Used
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**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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

## Semantics:

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

# Loop Item

<b>Pos: 0100</b>	<b>Repeat: 1000</b>
<b>Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: N/A</b>

**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

<b>Pos: 0100</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

## User 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	<b>Hierarchical ID Number</b>	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	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use
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**Description:** Code defining the characteristic of a level in a hierarchical structure

**Code List Summary** (Total Codes: 250, 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		Must use
2100		Loop ISR	O		104	Must use

# PO1 Baseline Item Data

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

**User Option (Usage):** Must use

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

## User 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)

**User Note 1:** See Section III for code list.

**Code List Summary** (Total Codes: 530, Included: 4)

### Code Name

EN	GTIN EAN/UCC - 13 Digit Data Structure	<b>Description:</b> Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
EO	GTIN EAN/UCC - 8 Digit Data Structure	<b>Description:</b> Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UK	GTIN 14-digit Data Structure	<b>Description:</b> Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UP	GTIN UCC - 12 Digit Data Structure	<b>Description:</b> Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)

PO107	234	Product/Service ID	X	AN	1/48	Must use
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**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.

**Comments:**

1. PO106 through PO125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., ISBN No., Model No., or SKU.



# 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

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

**User 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
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**Description:** Code indicating the status reason

**Code List 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:

1. 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

## User 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

**Code List Summary** (Total Codes: 1130, Included: 1)

<u>Code</u>	<u>Name</u>
01	Discrete Quantity

QTY02	380	Quantity	X	R	1/15	Must use
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**Description:** Numeric value of quantity

QTY03	C001	Composite Unit of Measure	O	Comp		Used
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**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
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**Code List Summary** (Total Codes: 884, Included: 5)

<u>Code</u>	<u>Name</u>
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

**Code List Summary** (Total Codes: 1754, Included: 1)

**Code Name**

CO Customer Order Number

**User Note 1:**

Customer of retailer

REF02	127	Reference Identification	X	AN	1/50	Must use
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**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

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

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

## Comments:

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