

870 Order Status Report (Version 4010) – Target Corporation Common

Revised: August 26, 2003

Functional Group ID=**RS**

Introduction:

This Draft Standard for Trial Use 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.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BSR	Beginning Segment for Order Status Report	M	1		
			LOOP ID - REF			>1	
Must Use	040	REF	Reference Identification	O	1		
			LOOP ID - N1			200	
Not Rec	050	N1	Name	O	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			1000	
M	010	HL	Hierarchical Level - Order	M	1		
	020	PRF	Purchase Order Reference	O	1		
			LOOP ID - N1			200	
Must Use	090	N1	Name	O	1		
			LOOP ID - HL			1000	
M	145	HL	Hierarchical Level - Item	M	1		
	150	PO1	Baseline Item Data	O	1		
			LOOP ID - ISR			104	
Must Use	210	ISR	Item Status Report	O	1		
	230	QTY	Quantity	O	4		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	CTT	Transaction Totals	M	1		n1
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. 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.

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

Syntax Notes:
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).

Comments:
Notes:

```
*****
Sample ST Segment
-----
ST*870*0001
*****
```

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143		Transaction Set Identifier Code Code uniquely identifying a Transaction Set 870 Order Status Report	M ID 3/3
M	ST02	329		Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set 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.	M AN 4/9

Segment: BSR Beginning Segment for Order Status Report

Position: 020

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

- 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.

Comments:

Notes:

```
*****
Sample BSR Segment
-----
BSR*3*PP*12*20000312
*****
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSR01	850	Status Report Code Code indicating the reason for sending the report 3 Unsolicited Report Send 3 for all Basic Replenishment purchase order exceptions	M ID 1/2
M	BSR02	847	Order/Item Code Code identifying a group of orders and items PP Selected Orders - Selected Items Used when information affects selected items on a purchase order	M ID 1/2
M	BSR03	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Number assigned by the sender to identify the request within their application system	M AN 1/30
M	BSR04	373	Date Date expressed as CCYYMMDD Transmission Date	M DT 8/8

Segment: REF Reference Identification

- Position:** 040
- Loop:** REF Optional (Must Use)
- Level:** Heading
- Usage:** Optional (Must Use)
- Max Use:** 1
- Purpose:** To specify identifying information
- Syntax Notes:**
 - 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
 - 1 REF04 contains data relating to the value cited in REF02.
- Comments:**
- Notes:**

```

*****
Sample REF Segment
-----
REF*IA*1234567
REF*DP*012

Both occurrences are required.
*****
    
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DP Department Number IA Internal Vendor Number Identification number assigned to the vendor, by the retailer, for use within the retailer's system	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 = 'IA,' this will be the Target Corporation's vendor number. When REF02 = 'DP,' this will be the 3-digit department number. This will be the same department number that was sent on the PO.	X AN 1/30

Segment: N1 Name

Position: 050
Loop: N1 Optional (Not Recommended)
Level: Heading
Usage: Optional (Not Recommended)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

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

Notes:

 This N1 is not required by Target Corporation.
 It has been included for those vendors,
 whose system requires sending it.

 Sample N1 Segment

 N1*BS**92*0551

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		BS Bill and Ship To	
N102	93	Name	X AN 1/60
		Free-form name	
		Not used by Target Corporation.	
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	
		This will be the 4 digit location code for the Ship To/Bill To location.	

Segment: HL Hierarchical Level - Order

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

Syntax Notes:
Semantic Notes:
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.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, 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.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

```
*****
Sample HL Segment
-----
HL*1**O

For Predistro an HL at Order Level must be
sent for every Mark for Location.
*****
```

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to Not used by Target Corporation	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure O Order	M ID 1/2

Segment: PRF Purchase Order Reference

Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: 1 PRF04 is the date assigned by the purchaser to purchase order.
Comments:
Notes:

```

*****
Sample PRF Segment
-----
PRF*1234-0456789-1234***20000312 (Basic and SDQ VCD)

PRF*1234-1234567***20000312 (SDQ non-VCD)

PRF*1234-0456789-1234***20000312 (Predistro)

The information needed for this segment can
be found in the BEG segment of the original
EDI 850 Purchase Order.
*****
    
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser PO Number Format: Basic and SDQ VCD: SSSS-PPPPPPP-LLLL SDQ: SSSS-PPPPPPP Predistro: SSSS-PPPPPPP-LLLL (LLLL = the Mark For Location)	M AN 1/22
	PRF02	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
	PRF03	327	Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set Not used by Target Corporation	O AN 1/8
M	PRF04	373	Date Date expressed as CCYYMMDD Retailer's original purchase order date	M DT 8/8

Segment: N1 Name

Position: 090
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

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

Notes:

 PLEASE NOTE: For Predistro, this N1 MUST contain the Mark for Store Location.

 Our system only accepts one (1) N1. If your system is designed to send two (2), we will only map the first one in your transmission. Make certain the first one contains the location to be updated."

 Sample N1 Segment

 N1*ST**92*0999

 For every Mark for Location, an HL at Order Level must be sent.

 When N101 equals 'MA,' this will be the Target Corporation location the goods are marked for.

 When N101 equals 'ST,' this will be the Target Corporation location the goods will be shipped to.

 Please send only one N1 segment. Multiple N1 segments may cause your transaction to fail. If the PO you received is allocated to the stores, the N1 must contain the store location. If the PO you received was not allocated at store level, send the DC location in the N1.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual MA Party for whom Item is Ultimately Intended ST Ship To	M ID 2/3
	N102	93 Name Free-form name	X AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for	X ID 1/2

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

When N101 equals 'MA,' this will be the Target Corporation location the goods are marked for.

When N101 equals 'ST,' this will be the Target Corporation location the goods will be shipped to.

A four (4) character field.

Segment: HL Hierarchical Level - Item

Position: 145
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
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.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, 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.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

```
*****
Sample HL Segment
-----
HL*2*1*I
*****
```

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
M	HL02	734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M AN 1/12
M	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item	M ID 1/2

Segment: PO1 Baseline Item Data

- Position:** 150
- Loop:** HL Mandatory
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify basic and most frequently used line item data
- Syntax Notes:**
 - 1 If PO103 is present, then PO102 is required.
 - 2 If PO105 is present, then PO104 is required.
 - 3 If either PO106 or PO107 is present, then the other is required.
 - 4 If either PO108 or PO109 is present, then the other is required.
 - 5 If either PO110 or PO111 is present, then the other is required.
 - 6 If either PO112 or PO113 is present, then the other is required.
 - 7 If either PO114 or PO115 is present, then the other is required.
 - 8 If either PO116 or PO117 is present, then the other is required.
 - 9 If either PO118 or PO119 is present, then the other is required.
 - 10 If either PO120 or PO121 is present, then the other is required.
 - 11 If either PO122 or PO123 is present, then the other is required.
 - 12 If either PO124 or PO125 is present, then the other is required.

Semantic Notes:

- Comments:**
 - 1 See the Data Element Dictionary for a complete list of IDs.
 - 2 PO101 is the line item identification.
 - 3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

 May send either the Target Corporation SKU or the UPC code, or the EAN - it is not necessary to send all. However, if sending the UPC code or the EAN, it must be the same as the one sent on the original purchase order.
 Sample PO1 Segment

 PO1*1*99*EA***CB*099090999
 PO1*1*99*EA***UP*999999999999
 PO1*1*99*EA***CB*099090999*UP*999999999999

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set The sequential number assigned to a PO line on the original purchase order. If included it must match exactly the PO101 on the Purchase Order.	O AN 1/20
M	PO102	330 Quantity Ordered Quantity ordered	M R 1/15
M	PO103	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CA and LB added for future use. CA Case EA Each	M ID 2/2

		LB	Pound		
PO104	212	Unit Price		X	R 1/17
		Price per unit of product, service, commodity, etc. Not used by Target Corporation.			
PO105	639	Basis of Unit Price Code		O	ID 2/2
		Code identifying the type of unit price for an item Not used by Target Corporation			
PO106	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		CB	Buyer's Catalog Number		
			Target Corporation's SKU (DPCI), consisting of Target Corporation's Department (PIC X3), Class (PIC X2), and Item (PIC X4).		
		EN	European Article Number (EAN) (2-5-5-1)		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
			Full 12-digit UPC		
PO107	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
PO108	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) See PO106 for valid codes.			
		CB	Buyer's Catalog Number		
		EN	European Article Number (EAN) (2-5-5-1)		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
PO109	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
PO110	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) See PO106 for valid code values.			
		CB	Buyer's Catalog Number		
		EN	European Article Number (EAN) (2-5-5-1)		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
PO111	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			

Segment: ISR Item Status Report

Position: 210
Loop: ISR Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify detailed purchase order/item status
Syntax Notes:
Semantic Notes: 1 If ISR01 specifies a date, ISR02 is required.
Comments:
Notes:

```

*****
Sample ISR Segment
-----
ISR*CP*20000312

ISR*IC
*****
    
```

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	ISR01	368 Shipment/Order Status Code	M ID 2/2
		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	
		CP Partial Shipment on (Date), Considered No Backorder	
		IC Item Canceled	
	ISR02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		If ISR01 contains CP, then ISR02 is required.	

Segment: QTY Quantity

Position: 230
Loop: ISR Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 4
Purpose: To specify quantity information

Syntax Notes:
 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.

Comments:

Notes:

```
*****
This segment is required when ISR is sent at an
item level.

The quantity used with ISR code "CP" must be the
number of eaches that will be shipped within the
original ship/cancel window. This is the quantity
you need to send to Target Corporation. The ONLY
value acceptable for the QTY02, when an "IC" code
is used, is zero (0).

Sample QTY Segment
-----
QTY*01*120*EA
*****
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity	M ID 2/2
M	QTY02	380	Quantity Numeric value of quantity	M R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	O
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CA and LB for future use	M ID 2/2
			CA Case	
			EA Each	
			LB Pound	

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

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

Notes:

```
*****
Sample CTT Segment
-----
CTT*99
*****
```

Data Element Summary

	Ref.	Data		Attributes
		<u>Des.</u>	<u>Element Name</u>	
M	CTT01	354	Number of Line Items	M NO 1/6
			Total number of line items in the transaction set	
			The number of HL segments present 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)

Syntax Notes:

Semantic Notes:

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

Notes:

```
*****
Sample SE Segment
-----
SE*99*999
*****
```

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This must be the same number as is in the ST segment (ST02) for the transaction set.	M AN 4/9