870 Order Status Report

Functional Group=RS

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:

Pos	<u>Id</u>	Segment Name	Req	Max Use	Repeat	<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
LOOP II) - N1				<u>200</u>		
0500	N1	Name	O	1			Used
0600	N2	Additional Name Information	O	2			Used
0700	N3	Address Information	O	2			Used
0800	N4	Geographic Location	O	1			Used
1000	PER	Administrative Communications Contact	O	3			Used

Detail:

<u>Pos</u>	<u>Id</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP II) - HL				<u>1000</u>		
0100 0200	HL PRF	Hierarchical Level Purchase Order Reference	M O	1 1			Must use Used
LOOP II) - PO1				<u>1000</u>		
1500 1800	PO1 PID	Baseline Item Data Product/Item Description	O O	1 1000			Used Used
LOOP II) - <u>ISR</u>				<u>104</u>		
2100 2300	ISR QTY	Item Status Report Quantity	0 0	1 4			Used Used

Summary:

Pos	<u>Id</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0200	SE	Transaction Set Trailer	M	1			Must use

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ST Transaction Set Header

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

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

Element Summary:

Ref	<u>Id</u>		Element Name	Req	Type	Min/Max	Usage
ST01	143	Transaction Set Identifier Code			ID	3/3	Must use
		Description:	Code uniquely identifying a Transaction Set				
		<u>Code</u> 870	Name Order Status Report				
ST02	329	Transaction S	Set Control Number	M	AN	4/9	Must use
			Identifying control number that must be unique isaction set functional group assigned by the a transaction set				
		Must be uniqu	e 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.

BSR Beginning Segment for Order Status Report

Pos: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 5

To indicate the beginning of an Order Status Report Transaction Set

Element Summary:

Ref	Id	Element	Name	Req	Type	Min/Max	Usage
BSR01	850	Status Report Code Description: Code indicating	the reason for sending the report	M	ID	1/2	Must use
		Only the following code will be	accepted:				
			Name nedule or Agreement				
BSR02	847	Order/Item Code		M	ID	1/2	Must use
		Description: Code identifyin	g a group of orders and items				
		Only the following codes will be	accepted:				
		CA All Orders - All CO All Orders - Ur PA Selected Orders	shipped Items				
BSR03	127	Reference Identification		M	AN	1/50	Must use
		Description: Reference informal Transaction Set or as specified by Qualifier	nation as defined for a particular by the Reference Identification				
BSR04	373	Date		M	DT	8/8	Must use
		Description: Date expressed represents the first two digits of	as CCYYMMDD where CC the calendar year				
BSR07	337	Time		o	TM	4/8	Used
		HHMM, or HHMMSS, or HHM	-				

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.

N1 Name

Pos: 0500 Max: 1 Heading - Optional Loop: N1 Elements: 2

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

Element Summary:

Ref	Id		Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identif	ier Code	M	ID	2/3	Must use
		Description: physical location	Code identifying an organizational entity, a ion, property or an individual				
		<u>Code</u> SE	Name Selling Party				
N102	93	Name Description:	Free-form name	C	AN	1/60	Used

Syntax:

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

An N1 loop with N101 = "SE" is required.

N2 Additional Name Information

Pos: 0600 Max: 2 Heading - Optional Loop: N1 Elements: 2

To specify additional names

Element Summary:

Ref	Id		Element Name	Req	Type	Min/Max	Usage
N201	93	Name		M	AN	1/60	Must use
		Description:	Free-form name				
N202	93	Name		O	AN	1/60	Used
11202	93	Name		U	AIN	1/00	Useu
		Description:	Free-form name				

N3 Address Information

Pos: 0700 Max: 2 Heading - Optional Loop: N1 Elements: 2

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information	M	$\mathbf{A}\mathbf{N}$	1/55	Must use
		Description: Address information				
N302	166	Address Information Description: Address information	0	AN	1/55	Used

N4 Geographic Location

Pos: 0800 Max: 1 Heading - Optional Loop: N1 Elements: 4

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	C	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		Code values conform to the standard postal abbreviations. See Table III of the Appendix for the US state codes and Canadian provinces.				
N403	116	Postal Code	o	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
		Nine digit zip codes are strongly recommended.				
N404	26	Country Code	C	ID	2/3	Used
		Description: Code identifying the country				
		Assume to be "US" if not sent.				
		CA Canada				
		US United States				

Syntax:

- 1. N402 E0207 -- Only one of N402 or N407 may be present.
- 2. N406 C0605 -- If N406 is present, then N405 is required
- 3. N407 C0704 -- If N407 is present, then N404 is required

Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

PER Administrative Communications Contact

Pos: 1000 Max: 3 Heading - Optional Loop: N1 Elements: 8

To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	<u>Id</u>		Element Name	Req	Type	Min/Max	Usage
PER01	366	Contact Func	tion Code	M	ID	2/2	Must use
		Description:	Code identifying the major duty or responsibility	of			
		the person or g	group named				
		<u>Code</u> SR	Name Sales Representative or Department				
PER02	93	Name		O	AN	1/60	Used
		Description:	Free-form name				
PER03	365	Communicati	on Number Qualifier	C	ID	2/2	Used
		Description:	Code identifying the type of communication num	ıber			
		Code	Name				
		EM	Electronic Mail				
		FX	Facsimile				
		TE	Telephone				
PER04	364	Communicati	on Number	\mathbf{C}	$\mathbf{A}\mathbf{N}$	1/256	Used
		Description:	Complete communications number including				
		country or area	a code when applicable				
PER05	365	Communicati	on Number Qualifier	C	ID	2/2	Used
		Description:	Code identifying the type of communication num	ber			
		Code	Name				
		EM	Electronic Mail				
		FX	Facsimile				
		TE	Telephone				
PER06	364	Communicati	on Number	C	$\mathbf{A}\mathbf{N}$	1/256	Used
		Description:	Complete communications number including				
		country or area	a code when applicable				
PER07	365	Communicati	on Number Qualifier	C	ID	2/2	Used
		Description:	Code identifying the type of communication num	ıber			
		Code	Name				
		EM	Electronic Mail				
		FX TE	Facsimile				
			Telephone				
PER08	364	Communicati		\mathbf{C}	AN	1/256	Used
		Description:	Complete communications number including				
		country or area	a code when applicable				

Syntax:

1. PER03 P0304 -- If either PER03 or PER04 are present, then the others are required.

- 2. PER05 P0506 -- If either PER05 or PER06 are present, then the others are required.
- 3. PER07 P0708 -- If either PER07 or PER08 are present, then the others are required.

HL Hierarchical Level

Pos: 0100 Max: 1 Detail - Mandatory Loop: HL Elements: 3

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

Element Summary:

Ref	<u>Id</u>		Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical 1	ID Number	M	AN	1/12	Must use
		Description: a particular da	A unique number assigned by the sender to identify ta segment in a hierarchical structure	7			
HL03	735	Hierarchical 1	Level Code	M	ID	1/2	Must use
		Description: hierarchical st	Code defining the characteristic of a level in a ructure				
		Only the follow	wing code will be accepted:				
		<u>Code</u> O	Name Order				
HL04	736	Hierarchical	Child Code	o	ID	1/1	Used
		Description: segments subc	Code indicating if there are hierarchical child data ordinate to the level being described				
		Only the following code will be accepted:					
		<u>Code</u> 0	Name No Subordinate HL Segment in This Hierarchical Structure.				

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.

HL02 must not be sent.

PRF Purchase Order Reference

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

To provide reference to a specific purchase order

Element Summary:

Ref	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage
PRF01	324	Purchase Order Number		AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser	y			

Semantics:

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

Required by the Rail Industry Forum.

PO1 Baseline Item Data

Pos: 1500 Max: 1 Detail - Optional Loop: PO1 Elements: 9

To specify basic and most frequently used line item data

Element Summary:

Ref	<u>Id</u>		Element Name	Req	Type	Min/Max	Usage
PO101	350	Assigned Idea	ntification	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set					
			th the purchaser's line number as shown on the r(paper), or with the value in PO101 if the order was lectronically.	S			
PO102	330	Quantity Ord	lered	\mathbf{C}	R	1/15	Must use
		Description:	Quantity ordered				
		Total quantity	ordered as understood by the seller.				
PO103	355	Unit or Basis	for Measurement Code	0	ID	2/2	Used
		Description: expressed, or a					
		-	e unit of measure as ordered by the buying party. of the Appendix for Unit of Measure Code values.				
PO106	235	Product/Serv	ice ID Qualifier	\mathbf{C}	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	Name				
		MF PI	Manufacturer Purchaser's Item Code				
		VP	If a purchaser's item code is indicated on a non-EDI order, an instance of data elements 235/234 is required with data element 235 = "PI" and data element 234 = product service ID. If the order was transmitted electronically with an instance of data elements 235/234 with data element 235 = "PI", then an instance of data elements 235/234 is required with data element 235 = "PI" and data element 234 = the purchaser's item code. Vendor's (Seller's) Part Number				
PO107	234	Product/Serv		C	AN	1/48	Used
		Description:	Identifying number for a product or service				
		PO108 throug and 234.	th PO111 are repeating pairs of data elements 235				
PO108	235	Product/Serv	ice ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Notes shown i	n PO106 apply to all data elements 235.				
		Code	Name				

Ref	Id		Element Name	Req	Type	Min/Max	Usage
		<u>Code</u> MF PI VP	Name Manufacturer Purchaser's Item Code Vendor's (Seller's) Part Number				
PO109	234	Product/Serv	ice ID	\mathbf{C}	AN	1/48	Used
		Description:	Identifying number for a product or service				
PO110	235	Product/Serv	ice ID Qualifier	C	ID	2/2	Used
		Description:	Code identifying the type/source of the descriptive				
		number used i	n Product/Service ID (234)				
		Code	Name				
		MF	Manufacturer				
		PI	Purchaser's Item Code				
		VP	Vendor's (Seller's) Part Number				
PO111	234	Product/Serv	ice ID	\mathbf{C}	AN	1/48	Used
		Description:	Identifying number for a product or service				

Syntax:

- 1. PO103 C0302 -- If PO103 is present, then PO102 is required
- 2. PO105 C0504 -- If PO105 is present, then PO104 is required
- 3. PO106 P0607 -- If either PO106 or PO107 are present, then the others are required.
- 4. PO108 P0809 -- If either PO108 or PO109 are present, then the others are required.
- 5. PO110 P1011 -- If either PO110 or PO111 are present, then the others are required.
- 6. PO112 P1213 -- If either PO112 or PO113 are present, then the others are required.
- 7. PO114 P1415 -- If either PO114 or PO115 are present, then the others are required.
- 8. PO116 P1617 -- If either PO116 or PO117 are present, then the others are required.
- 9. PO118 P1819 -- If either PO118 or PO119 are present, then the others are required.
- 10. PO120 P2021 -- If either PO120 or PO121 are present, then the others are required.

 11. PO122 P2223 -- If either PO122 or PO123 are present, then the others are required.
- 12. PO124 P2425 -- If either PO124 or PO125 are present, then the others are required.
- **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.

PID Product/Item Description

Pos: 1800 Max: 1000 Detail - Optional Loop: PO1 Elements: 2

To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	-	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Descript	ion Type	M	ID	1/1	Must use
		Description:	Code indicating the format of a description				
		<u>Code</u> F	Name Free-form				
PID05	352	Description		C	AN	1/80	Used
		Description:	A free-form description to clarify the related data				
		elements and t	neir content				

Syntax:

1. PID04	C0403 If PID04 is present, then PID03 is required
2. PID04	R0405 At least one of PID04 or PID05 is required.
3. PID07	C0703 If PID07 is present, then PID03 is required
4. PID08	C0804 If PID08 is present, then PID04 is required
5. PID09	C0905 If PID09 is present, then PID05 is required

Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

Comments:

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

ISR Item Status Report

Pos: 2100 Max: 1
Detail - Optional
Loop: ISR Elements: 2

To specify detailed purchase order/item status

Element Summary:

Ref	Id		Element Name	Req	Type	Min/Max	Usage
ISR01	368	Shipment/Oro	der Status Code	M	ID	2/2	Must use
			Code indicating the status of an order or shipment ion of any difference between the quantity ordered ity shipped for a line item or transaction				
		Only the follow	ving codes will be accepted:				
		Code	Name				
		ED	Expect to Ship By (Date)				
		NY	No Shipping Schedule				
		SH	Shipped (Date)				
ISR02	373	Date		O	DT	8/8	Used
		Description: represents the	Date expressed as CCYYMMDD where CC first two digits of the calendar year				

Semantics:

1. If ISR01 specifies a date, ISR02 is required.

If ISR01 = "ED"

ISR02 is required: Segment QTY is required with QTY01 = "27" to indicate the quantity scheduled.

If ISR01 = "NY"

ISR02 is not to be sent: Segment QTY is required with QTY01 = "40" to indicate the un-shipped and un-scheduled balance.

If ISR01 = "SH"

ISR02 is required: Segment QTY is required with QTY01 = "39" to indicate the quantity shipped.

QTY Quantity

Pos: 2300 Max: 4
Detail - Optional
Loop: ISR Elements: 2

To specify quantity information

Element Summary:

Ref	<u>Id</u>	Element Name		Req	Type	Min/Max	Usage
QTY01	673	Quantity Qua	ılifier	M	ID	2/2	Must use
		Description:	Code specifying the type of quantity				
		Only the follow	wing codes will be accepted:				
		Code	Name				
		27	Committed Quantity				
		39	Shipped Quantity				
		40	Remaining Quantity				
QTY02	380	Quantity		C	R	1/15	Used
		Description:	Numeric value of quantity				

Syntax:

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

Semantics:

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

The sum of QTY02 for all QTY segments in the PO1 loop must equal the value found in PO102.

SE Transaction Set Trailer

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

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:

Ref	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage
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	n			
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				
		Must be identifical to the transaction set control number in the ST segment.				

Comments:

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