

# 830 Planning Schedule with Release Capability

Functional Group ID=**PS**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

## 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>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BFR	Beginning Segment for Planning Schedule	M	1		
			LOOP ID - N1				200
	230	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 - LIN				>1
Must Use	010	LIN	Item Identification	M	1		
	020	UIT	Unit Detail	O	1		
	130	PRS	Part Release Status	O	1		
	140	REF	Reference Identification	O	12		
	150	PER	Administrative Communications Contact	O	3		
	230	ATH	Resource Authorization	O	20		
			LOOP ID - N1				200
	320	N1	Name	O	1		
	340	N3	Address Information	O	2		
	350	N4	Geographic Location	O	1		
			LOOP ID - SDP				260
	450	SDP	Ship/Delivery Pattern	O	1		
Must Use	460	FST	Forecast Schedule	O	260		
			LOOP ID - SHP				25
	470	SHP	Shipped/Received Information	O	1		
	480	REF	Reference Identification	O	5		

## Summary:

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

## Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

## Document Change Log

Page Number	Date	Description
6	Sept 15, 2003	Corrected N1 segment; added 'ZZ' as valid qualifier for N103, element # 66
7	Sept 15, 2003	Corrected LIN segment; added qualifiers to LIN06 and LIN08 for element #235

**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:**

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability	M ID 3/3
>>	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	M AN 4/9

<b>Segment:</b>	<b>BFR</b> Beginning Segment for Planning Schedule
<b>Position:</b>	020
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates
<b>Syntax Notes:</b>	1 At least one of BFR02 or BFR03 is required.
<b>Semantic Notes:</b>	1 If BFR01 contains the value "04" (Net Change), BFR09 is required. 2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser. 3 BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins. 4 BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends. 5 BFR08 is the date forecast generated: The date the forecast data was generated. 6 BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)
<b>Comments:</b>	

Data Element Summary				
Ref.	Data	Name	Attributes	
<u>Des.</u>	<u>Element</u>			
>>	<b>BFR01</b>	<b>353</b> <b>Transaction Set Purpose Code</b>	<b>M</b>	<b>ID 2/2</b>
		Code identifying purpose of transaction set		
		00 Original		
		04 Change		
		05 Replace		
	<b>BFR02</b>	<b>127</b> <b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	<b>BFR03</b>	<b>328</b> <b>Release Number</b>	<b>X</b>	<b>AN 1/30</b>
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
>>	<b>BFR04</b>	<b>675</b> <b>Schedule Type Qualifier</b>	<b>M</b>	<b>ID 2/2</b>
		Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast		
		DL Delivery Based		
		SH Shipment Based		
>>	<b>BFR05</b>	<b>676</b> <b>Schedule Quantity Qualifier</b>	<b>M</b>	<b>ID 1/1</b>
		Code identifying the type of quantities used when defining a schedule or forecast		
		A Actual Discrete Quantities		
>>	<b>BFR06</b>	<b>373</b> <b>Forecast Horizon Start Date</b>	<b>M</b>	<b>DT 8/8</b>
		Date expressed as CCYYMMDD		
>>	<b>BFR07</b>	<b>373</b> <b>Forecast Horizon End Date</b>	<b>O</b>	<b>DT 8/8</b>
		Date expressed as CCYYMMDD		
>>	<b>BFR08</b>	<b>373</b> <b>Generation Date</b>	<b>M</b>	<b>DT 8/8</b>
		Date expressed as CCYYMMDD		
	<b>BFR11</b>	<b>324</b> <b>Purchase Order Number</b>	<b>O</b>	<b>AN 1/22</b>
		Identifying number for Purchase Order assigned by the orderer/purchaser		

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	230
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of N102 or N103 is required.</li> <li>2 If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>2 N105 and N106 further define the type of entity in N101.</li> </ol>

Data Element Summary				
	<b>Ref.</b>	<b>Data</b>		
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	<b>Attributes</b>
>>	<b>N101</b>	<b>98</b>	<b>Entity Identifier Code</b>	<b>M ID 2/3</b>
			Code identifying an organizational entity, a physical location, property or an individual	
			ST Ship To	
			SU Supplier/Manufacturer	
	<b>N102</b>	<b>93</b>	<b>Name</b>	<b>X AN 1/60</b>
			Free-form name	
<b>R</b>	<b>N103</b>	<b>66</b>	<b>Identification Code Qualifier</b>	<b>X ID 1/2</b>
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
>>	<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X AN 2/80</b>
			Code identifying a party or other code	
			Suppress internal dashes and spaces.	

<b>Segment:</b>	<b>LIN</b>	<b>Item Identification</b>
<b>Position:</b>	010	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify basic item identification data	
<b>Syntax Notes:</b>	<b>1</b> If either LIN04 or LIN05 is present, then the other is required. <b>2</b> If either LIN06 or LIN07 is present, then the other is required. <b>3</b> If either LIN08 or LIN09 is present, then the other is required. <b>4</b> If either LIN10 or LIN11 is present, then the other is required. <b>5</b> If either LIN12 or LIN13 is present, then the other is required. <b>6</b> If either LIN14 or LIN15 is present, then the other is required. <b>7</b> If either LIN16 or LIN17 is present, then the other is required. <b>8</b> If either LIN18 or LIN19 is present, then the other is required. <b>9</b> If either LIN20 or LIN21 is present, then the other is required. <b>10</b> If either LIN22 or LIN23 is present, then the other is required. <b>11</b> If either LIN24 or LIN25 is present, then the other is required. <b>12</b> If either LIN26 or LIN27 is present, then the other is required. <b>13</b> If either LIN28 or LIN29 is present, then the other is required. <b>14</b> If either LIN30 or LIN31 is present, then the other is required.	
<b>Semantic Notes:</b>	<b>1</b> LIN01 is the line item identification	
<b>Comments:</b>	<b>1</b> See the Data Dictionary for a complete list of IDs. <b>2</b> LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	<b>M ID 2/2</b>
>>	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service	<b>M AN 1/48</b>
	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	<b>X ID 2/2</b>
	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service	<b>X AN 1/48</b>
	LIN06	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor's (Seller's) Part Number	<b>X ID 2/2</b>
	LIN07	234	<b>Product/Service ID</b> Identifying number for a product or service	<b>X AN 1/48</b>
	LIN08	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) EC Engineering Change Level	<b>X ID 2/2</b>
	LIN09	234	<b>Product/Service ID</b> Identifying number for a product or service	<b>X AN 1/48</b>
LIN06 through LIN31 provide for 13 additional pairs of data elements 235 and 234.				

**Segment:** **UIT** Unit Detail  
**Position:** 020  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify item unit data  
**Syntax Notes:** 1 If UIT03 is present, then UIT02 is required.  
**Semantic Notes:**  
**Comments:**

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	UIT01	C001	<b>Composite Unit of Measure</b>	<b>M</b>
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
>>	C00101	355	<b>Unit or Basis for Measurement Code</b>	<b>M ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Any valid X12 code value except mutually defined: 'ZZ'	



**Segment:** **PRS** Part Release Status

**Position:** 130

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To indicate the status of the part being ordered or forecast with respect to this material release or planning document

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
				<u>M</u> <u>ID</u> 1/2
>>	PRS01	682	Part Release Status Code	
			Code identifying the status of the specific part number being released or forecast or being used in an engineering change	
			Any valid X12 code value.	

**Segment:** **REF** **Reference Identification**  
**Position:** 140  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**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:**

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>> REF01	128	<b>Reference Identification Qualifier</b>	<b>M ID 2/3</b>
		Code qualifying the Reference Identification	
		DK Dock Number	
		LF Assembly Line Feed Location	
		RL Reserve Assembly Line Feed Location	
REF02	127	<b>Reference Identification</b>	<b>X AN 1/30</b>
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

**Segment:** **PER Administrative Communications Contact**  
**Position:** 150  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 3  
**Purpose:** To identify a person or office to whom administrative communications should be directed  
**Syntax Notes:**

- 1** If either PER03 or PER04 is present, then the other is required.
- 2** If either PER05 or PER06 is present, then the other is required.
- 3** If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

Data Element Summary				
Ref.	Data	Name	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>M</u> <u>ID</u> <u>2/2</u>	
>> PER01	366	Contact Function Code		
		Code identifying the major duty or responsibility of the person or group named		
		EX Expeditor		
PER02	93	Name	O AN 1/60	
		Free-form name		

**Segment: ATH Resource Authorization****Position:** 230**Loop:** LIN Mandatory**Level:** Detail**Usage:** Optional**Max Use:** 20**Purpose:** To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule**Syntax Notes:** 1 At least one of ATH02 or ATH03 is required.

2 If ATH03 is present, then ATH05 is required.

3 If ATH04 is present, then ATH05 is required.

**Semantic Notes:** 1 ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.

2 ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).

3 ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

**Comments:** 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.

2 ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element</b>		
>> ATH01	672	<b>Resource Authorization Code</b>	<b>M ID 2/2</b>
		Code identifying the resource which the buyer is authorizing the seller to commit to	
		FI	Finished (Labor, Material, and Overhead/Burden)
		MT	Material
		PQ	Cumulative Quantity Required Prior to First Schedule Period
ATH02	373	<b>Date</b>	<b>X DT 8/8</b>
		Date expressed as CCYYMMDD	
ATH03	380	<b>Authorization Cum Required Quantity</b>	<b>X R 1/15</b>
		Numeric value of quantity	
ATH05	373	<b>Required Ship Date</b>	<b>X DT 8/8</b>
		Date expressed as CCYYMMDD	

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	320
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of N102 or N103 is required.</li> <li>2 If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>2 N105 and N106 further define the type of entity in N101.</li> </ol>

Data Element Summary				
Ref.	Data	Name	Attributes	
<u>Des.</u>	<u>Element</u>			
>> N101	98	<b>Entity Identifier Code</b>	M	ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual		
		ST Ship To		
N102	93	<b>Name</b>	X	AN 1/60
		Free-form name		
N103	66	<b>Identification Code Qualifier</b>	X	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
N104	67	<b>Identification Code</b>	X	AN 2/80
		Code identifying a party or other code		

**Segment:** **N3** **Address Information**  
**Position:** 340  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

Data Element Summary			
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>
>>	N301	166	<b>Address Information</b> Address information
	N302	166	<b>Address Information</b> Address information
			<u>Attributes</u>
			M AN 1/55
			O AN 1/55

<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	350
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	<b>1</b> If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. <b>2</b> N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	

<b>Segment:</b>	<b>FST</b> <b>Forecast Schedule</b>
<b>Position:</b>	460
<b>Loop:</b>	SDP     Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional (Must Use)
<b>Max Use:</b>	260
<b>Purpose:</b>	To specify the forecasted dates and quantities
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either FST06 or FST07 is present, then the other is required.</li> <li>2 If either FST08 or FST09 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval.</li> <li>2 FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m.</li> </ol>

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	<b>FST01</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>M R 1/15</b>
>>	<b>FST02</b>	<b>680</b>	<b>Forecast Qualifier</b> Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C                      Firm D                      Planning	<b>M ID 1/1</b>
>>	<b>FST03</b>	<b>681</b>	<b>Forecast Timing Qualifier</b> Code specifying interval grouping of the forecast C                      Daily D                      Discrete F                      Flexible Interval (from Date X through Date Y) M                      Monthly Bucket (Calendar Months)	<b>M ID 1/1</b>
>>	<b>FST04</b>	<b>373</b>	<b>Forecast Begin Date</b> Date expressed as CCYYMMDD	<b>M DT 8/8</b>
	<b>FST05</b>	<b>373</b>	<b>Forecast End Date</b> Date expressed as CCYYMMDD	<b>O DT 8/8</b>



<b>Segment:</b>	<b>SHP</b>	<b>Shipped/Received Information</b>
<b>Position:</b>	470	
<b>Loop:</b>	SHP	Optional
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify shipment and/or receipt information	
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If SHP01 is present, then SHP02 is required.</li> <li>2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.</li> <li>3 If SHP04 is present, then SHP03 is required.</li> <li>4 If SHP05 is present, then SHP03 is required.</li> </ol>	
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).</li> <li>2 SHP06 is the cumulative quantity end date.</li> </ol>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.</li> <li>2 If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.</li> </ol>	

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	<b>Quantity Qualifier</b>	O ID 2/2
		Code specifying the type of quantity	
		01 Discrete Quantity	
		02 Cumulative Quantity	
SHP02	380	<b>Quantity</b>	X R 1/15
		Numeric value of quantity	
SHP03	374	<b>Date/Time Qualifier</b>	X ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		050 Received	
		051 Cumulative Quantity Start	
SHP04	373	<b>Date</b>	X DT 8/8
		Date expressed as CCYYMMDD	
SHP05	337	<b>Time</b>	X ID 4/8
		Time expressed in HHMMSS	
SHP06	373	<b>Date</b>	X DT 8/8
		Date expressed as CCYYMMDD	

**Segment:** **REF** **Reference Identification**  
**Position:** 480  
**Loop:** SHP Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 5  
**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:**

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>> REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment	<b>M ID 2/3</b>
REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X AN 1/30</b>

<b>Segment:</b>	<b>CTT</b>	<b>Transaction Totals</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Summary	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set	
<b>Syntax Notes:</b>	<b>1</b> If either CTT03 or CTT04 is present, then the other is required. <b>2</b> If either CTT05 or CTT06 is present, then the other is required.	
<b>Semantic Notes:</b>		
<b>Comments:</b>	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.	

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
>>	CTT01	354	Number of Line Items	M N0 1/6
		Total number of line items in the transaction set		
		Total number of LIN segments		
	CTT02	347	Hash Total	O R 1/10
		Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.		
		Hash total of quantities released (FST01)		

**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.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
>>	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	<b>M N0 1/10</b>
>>	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>M AN 4/9</b>