

# **CVS/Caremark**

## **Implementation Guide**

### **830 Planning Schedule with Release Capability**

#### **Version X12-4010**

# Table of Contents

<b>Introduction:</b> .....	<b>3</b>
<b>ST Transaction Set Header</b> .....	<b>4</b>
<b>BFR Beginning Segment for Planning Schedule</b> .....	<b>5</b>
<b>REF Reference Identification</b> .....	<b>6</b>
<b>N1 Party Identification</b> .....	<b>7</b>
<b>LIN Item Identification</b> .....	<b>8</b>
<b>UIT Unit Detail</b> .....	<b>9</b>
<b>FST Forecast Schedule</b> .....	<b>10</b>
<b>SDQ Destination Quantity</b> .....	<b>11</b>
<b>CTT Transaction Totals</b> .....	<b>13</b>
<b>SE Transaction Set Trailer</b> .....	<b>14</b>
<b>Sample Data</b> .....	<b>15</b>

# 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>
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
	050	REF	Reference Identification	O	12		
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	
M	010	LIN	Item Identification	M	1		
	020	UIT	Unit Detail	O	1		
LOOP ID - FST						>1	
	410	FST	Forecast Schedule	O	1		n2
	420	SDQ	Destination Quantity	O	50		

## 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>
	010	CTT	Transaction Totals	O	1		n3
M	020	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. QTY is used to specify supplemental quantities relevant to the forecast function. However, QTY is not related to the actual forecast quantity in the FST segments.
2. At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
3. 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.

# ST Transaction Set Header

**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:**  
**Business Rules:** Variable Name: STST

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	ST02	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	M AN 4/9

## BFR Beginning Segment for Planning Schedule

**Segment:** BFR Beginning Segment for Planning Schedule

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates

**Syntax Notes:** 1 At least one of BFR02 or BFR03 is required.

**Semantic Notes:** 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.

### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BFR01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set <u>Code</u> <u>Name</u> <b>00 Original</b>	M ID 2/2
	BFR02	127	<b>Reference Identification</b> Sequential Number Assigned by CVS	X AN 1/30
M	BFR04	675	<b>Schedule Type Qualifier</b> Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast <u>Code</u> <u>Name</u> <b>BB Customer Production</b>	M ID 2/2
M	BFR05	676	<b>Schedule Quantity Qualifier</b> Code identifying the type of quantities used when defining a schedule or forecast <u>Code</u> <u>Name</u> <b>A Actual Discrete Quantities</b>	M ID 1/1
M	BFR06	373	<b>Date</b> <b>Beginning Date in First FST (CCYYMMDD)</b>	M DT 8/8
	BFR07	373	<b>Date</b> <b>Ending Date in Last FST (CCYYMMDD)</b>	O DT 8/8
M	BFR08	373	<b>Date</b> <b>Data Creation Date (CCYYMMDD)</b>	M DT 8/8

# REF Reference Identification

**Segment:** **REF** Reference Identification  
**Position:** 050  
**Loop:**  
**Level:** Heading  
**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

	<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	M ID 2/3				
			<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>VR</td> <td>CVS Vendor Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	VR	CVS Vendor Number	
<u>Code</u>	<u>Name</u>							
VR	CVS Vendor Number							
	REF02	127	Reference Identification Value Defined by REF01	X AN 1/30				

## N1 Party Identification

<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

Ref.	Data	Name	Attributes
Des.	Element		
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		<u>Code</u> <u>Name</u>	
		<b>FR From</b>	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification	
		<u>Code</u> <u>Name</u>	
		<b>"1" Duns Number Qualifier</b>	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		<u>Code</u> <u>Name</u>	
		<b>001786664 CVS Duns Number</b>	

## LIN Item Identification

<b>Segment:</b>	<b>LIN</b> Item Identification
<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>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 LIN01 is the line item identification
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 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.</li> </ol>

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN02	235 <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code Name</u> <b>IN Item Number</b>	M ID 2/2
M	LIN03	234 <b>Product/Service ID</b> Identifying number for a product or service <b>CVS Item Number</b>	M AN 1/48
	LIN04	235 <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID <u>Code Name</u> <b>UI Item UPC - U.P.C. Consumer Package Code (1-5-5)</b>	X ID 2/2
	LIN05	234 <b>Product/Service ID</b> Identifying number for a product or service <b>UPC Number or NDC Number</b>	X AN 1/48
	LIN06	235 <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID <u>Code Name</u> <b>UA Case UPC- UA = U.P.C./EAN Case Code (2-5-5)</b>	X ID 2/2
	LIN07	234 <b>Product/Service ID</b> Identifying number for a product or service <b>UPC Number</b>	X AN 1/48



## UIT Unit Detail

**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>Data</u>	<u>Name</u>	<u>Attributes</u>				
M	UIT01	C001	Composite Unit of Measure To identify a composite unit of measure	M				
			<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PC</td> <td>Pieces</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	PC	Pieces	
<u>Code</u>	<u>Name</u>							
PC	Pieces							

## FST Forecast Schedule

<b>Segment:</b>	<b>FST</b> Forecast Schedule
<b>Position:</b>	410
<b>Loop:</b>	FST Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<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>
M	<b>FST01</b> 380	<b>Quantity</b> Total Item Quantity	M R 1/15
M	<b>FST02</b> 680	<b>Forecast Qualifier</b> Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	M ID 1/1
M	<b>FST03</b> 681	<b>Forecast Timing Qualifier</b> Code specifying interval grouping of the forecast	M ID 1/1
M	<b>FST04</b> 373	<b>Date</b> <b>Beginning Date (CCYYMMDD)</b>	M DT 8/8
	<b>FST05</b> 373	<b>Date</b> <b>Ending Date (CCYYMMDD)</b>	O DT 8/8

## SDQ Destination Quantity

<b>Segment:</b>	<b>SDQ</b> Destination Quantity
<b>Position:</b>	420
<b>Loop:</b>	FST Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	50
<b>Purpose:</b>	To specify destination and quantity detail
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either SDQ05 or SDQ06 is present, then the other is required.</li> <li>2 If either SDQ07 or SDQ08 is present, then the other is required.</li> <li>3 If either SDQ09 or SDQ10 is present, then the other is required.</li> <li>4 If either SDQ11 or SDQ12 is present, then the other is required.</li> <li>5 If either SDQ13 or SDQ14 is present, then the other is required.</li> <li>6 If either SDQ15 or SDQ16 is present, then the other is required.</li> <li>7 If either SDQ17 or SDQ18 is present, then the other is required.</li> <li>8 If either SDQ19 or SDQ20 is present, then the other is required.</li> <li>9 If either SDQ21 or SDQ22 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 SDQ02 is used only if different than previously defined in the transaction set.</li> <li>2 SDQ03 is the store number.</li> <li>3 SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.</li> </ol>

### Data Element Summary

Ref.	Data Element	Name	Attributes
M	SDQ01	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 <u>Code</u> <u>Name</u> <b>PC Pieces</b>	M ID 2/2
	SDQ02	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) <u>Code</u> <u>Name</u> <b>54 Warehouse -See the link for pertinent DC Codes</b> <a href="http://cvssuppliers.com/distribution-center-id-table">http://cvssuppliers.com/distribution-center-id-table</a>	O ID 1/2
M	SDQ03	67 Identification Code Code identifying a party or other code <b>CVS DC Code</b>	M AN 2/80
M	SDQ04	380 Quantity Numeric value of quantity	M R 1/15
	SDQ05	67 Identification Code Code identifying a party or other code <b>CVS DC Code</b>	X AN 2/80
	SDQ06	380 Quantity Numeric value of quantity	X R 1/15
	SDQ07	67 Identification Code Code identifying a party or other code <b>CVS DC Code</b>	X AN 2/80

SDQ08	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ09	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ10	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ11	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ12	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ13	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ14	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ15	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ16	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ17	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ18	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ19	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ20	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ21	67	<b>Identification Code</b> Code identifying a party or other code	X	AN 2/80
		<b>CVS DC Code</b>		
SDQ22	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
SDQ23	310	<b>Location Identifier</b> Code which identifies a specific location	O	AN 1/30
		<b>CVS DC Code</b>		

## CTT Transaction Totals

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**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.

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6

## SE Transaction Set Trailer

**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

	<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	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

## Sample Data

ISA\*00\*        \*00\*        \*ZZ\*CVS        \*ZZ\*6109719600    \*171020\*171

9\*U\*00400\*000084886\*0\*P\*~

GS\*PS\*CVS\*6109719600\*20171020\*1719\*96\*X\*004010~

ST\*830\*0184~

BFR\*00\*00\*\*BB\*A\*20171112\*20171118\*20171020~

REF\*VR\*40641~

N1\*FR\*\*1\*001786664~

LIN\*\*IN\*925390\*UI\*05042844452\*UA\*00000000000000~

UIT\*PC~

FST\*64\*D\*F\*20171112\*20171118~

SDQ\*PC\*54\*C101\*64~

LIN\*\*IN\*925390\*UI\*05042844452\*UA\*00000000000000~

UIT\*PC~

FST\*7168\*D\*F\*20171119\*20171125~

SDQ\*PC\*54\*L101\*3648\*M101\*1920\*O101\*1600~

LIN\*\*IN\*925390\*UI\*05042844452\*UA\*00000000000000~

UIT\*PC~

FST\*192\*D\*F\*20171126\*20171202~

SDQ\*PC\*54\*L101\*64\*M101\*64\*O101\*64~

CTT\*3~

SE\*18\*0184~

GE\*1\*96~

IEA\*1\*000084886~