

## Introduction

This guideline provides a description and technical layout of the data segments used when creating 3M's EDI Planning Schedules with Release Capability (Forecast) (ASC X12 transaction set 830) sent to 3M's suppliers. This guideline includes the data segments and elements most commonly sent.

The ASC X12 version presented in this guideline is 004010. If you cannot receive Planning Schedules with Release Capability information in 004010, please consult your 3M EDI contact.

The majority of 3M's EDI Planning Schedule with Release Capability information will be sent to suppliers by 3M manufacturing facilities. There may be variations in the Planning Schedule sent to a supplier based on each manufacturing facility's requirements.

The purpose of this transaction is to communicate information to the supplier that will assist the supplier in providing complete shipments as required by 3M.

Some general comments are:

1. During implementation, a supplier receiving 3M's EDI Planning Schedule with Release Capability information will verify that the forecaster and the supplier have a common understanding of the meaning and use of the information being transmitted.
2. This transaction is used to share information and plans with a supplier in order to assist the supplier in providing 3M with needed supplies on a timely basis.
3. 3M's EDI Planning Schedule with Release Capability (Forecast) may be used in conjunction with the 852 Product Activity Data transaction set in order to communicate forecasts and inventory level information within an SMI (Supplier Managed Inventory) framework. In an SMI framework, the 856 Ship Notice/Manifest or an 855 Purchase Order Acknowledgement will be used by the supplier to communicate shipment information back to the manufacturing facility. In these more complex cases, additional documentation will be provided by 3M.

An example of a paper copy Planning Schedules with Release Capability and its ASC X12 interpretation can be found at the back of this guideline.

**Note: For illustration purposes only, all examples use an asterisk (\*) as the data element separator and a caret (^) as the segment terminator. In actual practice, values must be chosen that do not conflict with the data.**

# 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>Page No.</u>	<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>
4	010	ST	Transaction Set Header	M	1		
5	020	BFR	Beginning Segment for Planning Schedule	M	1		
7	025	XPO	Preassigned Purchase Order Numbers	O	>1		
Not Used	040	CUR	Currency	O	1		
8	050	REF	Reference Identification	O	12		
Not Used	060	PER	Administrative Communications Contact	O	3		
Not Used	070	TAX	Tax Reference	O	3		
Not Used	080	FOB	F.O.B. Related Instructions	O	1		
Not Used	090	CTP	Pricing Information	O	25		
Not Used	100	SAC	Service, Promotion, Allowance, or Charge Information	O	25		
Not Used	110	CSH	Sales Requirements	O	1		
Not Used	120	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
9	130	DTM	Date/Time Reference	O	10		
Not Used	140	PID	Product/Item Description	O	200		
Not Used	150	MEA	Measurements	O	40		
Not Used	160	PWK	Paperwork	O	25		
Not Used	170	PKG	Marking, Packaging, Loading	O	25		
Not Used	180	TD1	Carrier Details (Quantity and Weight)	O	2		
Not Used	190	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	200	TD3	Carrier Details (Equipment)	O	12		
Not Used	210	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	220	MAN	Marks and Numbers	O	10		

### 3M Supplier Planning Schedule with Release Capability

LOOP ID - N1			200
10	230	N1	Name O 1
Not Used	240	N2	Additional Name Information O 2
Not Used	250	N3	Address Information O 2
Not Used	260	N4	Geographic Location O 1
Not Used	270	REF	Reference Identification O 12
Not Used	280	PER	Administrative Communications Contact O 3
Not Used	290	FOB	F.O.B. Related Instructions O 1
LOOP ID - LM			>1
Not Used	300	LM	Code Source Information O 1
Not Used	310	LQ	Industry Code M 100

### Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - LIN			>1				
11	010	LIN	Item Identification	M	1		
13	020	UIT	Unit Detail	O	1		
Not Used	021	DTM	Date/Time Reference	O	10		
Not Used	030	CUR	Currency	O	1		
Not Used	060	PO3	Additional Item Detail	O	25		
Not Used	070	CTP	Pricing Information	O	25		
Not Used	080	PID	Product/Item Description	O	1000		
Not Used	090	MEA	Measurements	O	40		
Not Used	100	PWK	Paperwork	O	25		
Not Used	110	PKG	Marking, Packaging, Loading	O	25		
Not Used	120	PO4	Item Physical Details	O	1		
Not Used	130	PRS	Part Release Status	O	1		
Not Used	140	REF	Reference Identification	O	12		
14	150	PER	Administrative Communications Contact	O	3		
Not Used	170	SAC	Service, Promotion, Allowance, or Charge Information	O	25		
Not Used	180	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
Not Used	190	TAX	Tax Reference	O	3		
Not Used	200	FOB	F.O.B. Related Instructions	O	1		
Not Used	210	LDT	Lead Time	O	12		
Not Used	220	QTY	Quantity	O	>1		n1
Not Used	230	ATH	Resource Authorization	O	20		
Not Used	240	TD1	Carrier Details (Quantity and Weight)	O	1		
Not Used	250	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	260	TD3	Carrier Details (Equipment)	O	12		
Not Used	270	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	280	MAN	Marks and Numbers	O	10		
Not Used	290	DD	Demand Detail	O	10		
LOOP ID - SLN			100				

### 3M Supplier Planning Schedule with Release Capability

Not Used	300	SLN	Subline Item Detail	O	1	
Not Used	310	PID	Product/Item Description	O	1000	
Not Used	315	NM1	Individual or Organizational Name	O	10	
LOOP ID - N1					200	
Not Used	320	N1	Name	O	1	
Not Used	330	N2	Additional Name Information	O	2	
Not Used	340	N3	Address Information	O	2	
Not Used	350	N4	Geographic Location	O	1	
Not Used	360	REF	Reference Identification	O	12	
Not Used	370	PER	Administrative Communications Contact	O	3	
Not Used	380	FOB	F.O.B. Related Instructions	O	1	
LOOP ID - LM					>1	
Not Used	390	LM	Code Source Information	O	1	
Not Used	400	LQ	Industry Code	M	100	
LOOP ID - FST					>1	
15	410	FST	Forecast Schedule	O	1	n2
17	415	QTY	Quantity	O	>1	
Not Used	420	SDQ	Destination Quantity	O	50	
LOOP ID - LM					>1	
Not Used	430	LM	Code Source Information	O	1	
Not Used	440	LQ	Industry Code	M	100	
LOOP ID - SDP					260	
Not Used	450	SDP	Ship/Delivery Pattern	O	1	
Not Used	460	FST	Forecast Schedule	O	260	
LOOP ID - SHP					25	
Not Used	470	SHP	Shipped/Received Information	O	1	
Not Used	480	REF	Reference Identification	O	5	

### Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
18	010	CTT	Transaction Totals	O	1		n3
19	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.

**3M Supplier Planning Schedule with Release Capability**

**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:** 3M Example(s): ST\*830\*200004275^

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Required	ST01	143	<b>Transaction Set Identifier Code</b>	<b>M ID 3/3</b>
			Code uniquely identifying a Transaction Set	
			830 Planning Schedule with Release Capability	
Required	ST02	329	<b>Transaction Set Control Number</b>	<b>M AN 4/9</b>
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			Sender-assigned sequential control number to match control number on SE segment.	

### 3M Supplier Planning Schedule with Release Capability

**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.  
 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.)

**Comments:**

**Notes:** 3M Example(s): BFR\*00\*990101\*\*DL\*A\*19990101\*19991231\*20000103^

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Required	BFR01	353	<b>Transaction Set Purpose Code</b>	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			05 Replace	
Required	BFR02	127	<b>Reference Identification</b>	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Forecast Start Date	
Required	BFR04	675	<b>Schedule Type Qualifier</b>	M ID 2/2
			Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	
			BB Customer Production (Consumption) Based	
			DL Delivery Based	
			SH Shipment Based	
Required	BFR05	676	<b>Schedule Quantity Qualifier</b>	M ID 1/1
			Code identifying the type of quantities used when defining a schedule or forecast	
			A Actual Discrete Quantities	

### 3M Supplier Planning Schedule with Release Capability

<b>Required</b>	<b>BFR06</b>	<b>373</b>	<b>Date</b>	<b>M DT 8/8</b>
			Date expressed as CCYYMMDD	
			Forecast Start Date	
<b>Required</b>	<b>BFR07</b>	<b>373</b>	<b>Date</b>	<b>O DT 8/8</b>
			Date expressed as CCYYMMDD	
			Forecast End Date	
<b>Required</b>	<b>BFR08</b>	<b>373</b>	<b>Date</b>	<b>M DT 8/8</b>
			Date expressed as CCYYMMDD	
			Date the forecast was created.	
	<b>BFR09</b>	<b>373</b>	<b>Date</b>	<b>O DT 8/8</b>
			Date expressed as CCYYMMDD	
			Date the forecast was changed.	

**3M Supplier Planning Schedule with Release Capability**

**Segment:** **XPO** Preassigned Purchase Order Numbers  
**Position:** 025  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To transmit preassigned purchase order numbers  
**Syntax Notes:** 1 If either XPO03 or XPO04 is present, then the other is required.  
**Semantic Notes:** 1 XPO01 is the preassigned purchase order number. If a range of purchase order numbers is to be transmitted, use XPO01 for the first number and XPO02 as the ending number.  
**Comments:** 1 XPO03 and XPO04 specify the location to which the purchase order numbers apply.  
**Notes:** 3M Comments: Used if the purchase order number applies to the whole forecast If the purchase order number applies to the line item, the purchase order number will be sent on the LIN segment.  
 3M Example(s): XPO\*S999999^

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Required	XPO01	324 Purchase Order Number	M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser	



### 3M Supplier Planning Schedule with Release Capability

**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:**

**Notes:** 3M Example(s): REF\*ZZ\*I2 RHYTHM^

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Required	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			ZZ Mutually Defined	
Required	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

### 3M Supplier Planning Schedule with Release Capability

**Segment:** **DTM** Date/Time Reference

**Position:** 130

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
  - 2 If DTM04 is present, then DTM03 is required.
  - 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:** 3M Example(s): DTM\*346\*19990101\*0000^

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>Required</b>	<b>DTM01</b>	<b>374</b>	<b>Date/Time Qualifier</b>	<b>M ID 3/3</b>
			Code specifying type of date or time, or both date and time	
			346 Plan Begin	
			Date on which the plan begins	
<b>Required</b>	<b>DTM02</b>	<b>373</b>	<b>Date</b>	<b>X DT 8/8</b>
			Date expressed as CCYYMMDD	
<b>Required</b>	<b>DTM03</b>	<b>337</b>	<b>Time</b>	<b>X TM 4/8</b>
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	

### 3M Supplier Planning Schedule with Release Capability

**Segment:** **N1** Name  
**Position:** 230  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**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:** 3M Comments: Required by 3M  
 3M Example(s):  
 N1\*ST\*3M HUTCHINSON\*92\*0150^

#### Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	
Required	<b>N101</b> 98 <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	
Required	<b>N102</b> 93 <b>Name</b>	<b>X AN 1/60</b>
	Free-form name	
	3M forecasting facility name	
	<b>N103</b> 66 <b>Identification Code Qualifier</b>	<b>X ID 1/2</b>
	Code designating the system/method of code structure used for Identification Code (67)	
	N104 will contain a four-character or eight-character 3M destination code. Upon request, suppliers are provided with a table of 3M destination codes.	
	92 Assigned by Buyer or Buyer's Agent	
	<b>N104</b> 67 <b>Identification Code</b>	<b>X AN 2/80</b>
	Code identifying a party or other code	

### 3M Supplier Planning Schedule with Release Capability

<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> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 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>
<b>Notes:</b>	<p>3M Comments: UPC Number (element LIN05) will be sent when available.</p> <p>3M Example(s):            LIN*1*BP*11001168001^            LIN*2*BP*26100032478*PO*T123456^</p>

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Required	LIN01	350 Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		Sequential number	
Required	LIN02	235 Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		LIN03 will contain 3M product ID without dashes.	
		BP Buyer's Part Number	
Required	LIN03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	

### 3M Supplier Planning Schedule with Release Capability

<b>LIN04</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		PO Purchase Order Number	
<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X AN 1/48</b>
		Identifying number for a product or service	

**3M Supplier Planning Schedule with Release Capability**

**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:**

**Notes:** 3M Example(s): UIT\*LB^

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u> <u>Name</u></b>	<b><u>Attributes</u></b>
<b>Required</b>	<b>UIT01</b>	<b>C001 Composite Unit of Measure</b>	<b>M</b>
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
<b>Required</b>	<b>C00101</b>	<b>355 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	
		3M uses many codes from the ASC X12 code list.	

### 3M Supplier Planning Schedule with Release Capability

**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:**

**Notes:** 3M Example(s): PER\*PL\*JANE DOE\*TE\*651/555-1234^

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Required	PER01	366 <b>Contact Function Code</b>	<b>M ID 2/2</b>
		Code identifying the major duty or responsibility of the person or group named	
		PL Manufacturing Plant Contact	
Required	PER02	93 <b>Name</b>	<b>O AN 1/60</b>
		Free-form name	
Required	PER03	365 <b>Communication Number Qualifier</b>	<b>X ID 2/2</b>
		Code identifying the type of communication number	
		TE Telephone	
Required	PER04	364 <b>Communication Number</b>	<b>X AN 1/80</b>
		Complete communications number including country or area code when applicable	

### 3M Supplier Planning Schedule with Release Capability

<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>
<b>Notes:</b>	<p>3M Comments: This number will be defined and understood by both 3M and the supplier.</p> <p>3M Example(s): FST*19842*D*C*20000102*20000103^</p>

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Required	FST01	<b>380</b> <b>Quantity</b>	<b>M R 1/15</b>
		Numeric value of quantity	
		This number will be defined and understood by 3M and the supplier.	
Required	FST02	<b>680</b> <b>Forecast Qualifier</b>	<b>M ID 1/1</b>
		Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	
		C Firm	
		D Planning	
Required	FST03	<b>681</b> <b>Forecast Timing Qualifier</b>	<b>M ID 1/1</b>
		Code specifying interval grouping of the forecast	
		A Annually (Calendar Year)	
		C Daily	
		F Flexible Interval (from Date X through Date Y)	
		M Monthly Bucket (Calendar Months)	
		Q Quarterly (Calendar Quarters)	
		T Four week bucket (13 buckets per year)	
		W Weekly Bucket (Monday through Sunday)	
Required	FST04	<b>373</b> <b>Date</b>	<b>M DT 8/8</b>



### 3M Supplier Planning Schedule with Release Capability

		Date expressed as CCYYMMDD	
		Beginning forecast date - Beginning of a forecast timing period; week, month, or flexible period.	
<b>FST05</b>	<b>373</b>	<b>Date</b>	<b>O DT 8/8</b>
		Date expressed as CCYYMMDD	
		Ending forecast - End of a flexible period.	
<b>FST06</b>	<b>374</b>	<b>Date/Time Qualifier</b>	<b>X ID 3/3</b>
		Code specifying type of date or time, or both date and time	
		007 Effective	
<b>FST07</b>	<b>337</b>	<b>Time</b>	<b>X TM 4/8</b>
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	

**3M Supplier Planning Schedule with Release Capability**

**Segment:** **QTY** Quantity

**Position:** 415

**Loop:** FST Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**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:** 3M Example(s): QTY\*47\*19842.000\*LB^

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Required	QTY01	673	<b>Quantity Qualifier</b>	M ID 2/2
			Code specifying the type of quantity	
			47 Primary Net Quantity	
			48 Secondary Net Quantity	
			99 Quantity Used	
			Quantity of units used	
Required	QTY02	380	<b>Quantity</b>	X R 1/15
			Numeric value of quantity	
	QTY03	C001	<b>Composite Unit of Measure</b>	O
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Required	C00101	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

**3M Supplier Planning Schedule with Release Capability**

**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.

**Notes:** 3M Example(s): CTT\*1^

**Data Element Summary**

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

**3M Supplier Planning Schedule with Release Capability**

**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:** 3M Example(s): SE\*32\*200004275^

**Data Element Summary**

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

### 3M Supplier Planning Schedule with Release Capability

#### Planning Schedule Example

This section contains an example to illustrate the use of transaction set 830.

#### 3M HUTCHINSON, #0150 ORIGINAL PLANNING SCHEDULE

**START DATE:** 01/01/1999  
**END DATE:** 12/31/1999  
**CREATE DATE:** 01/03/2000

<b>Buyer's Part #</b>	<b>Planning Quantity</b>	<b>Beginning Date</b>	<b>End Date</b>	<b>Qty, on Hand</b>	<b>Starting Balance</b>	<b>Ending Balance</b>
11001168001	19842	1/2/2000	1/3/2000	6612 lbs	19842 lbs	13230 lbs
	18405	1/3/2000	1/4/2000	13230 lbs	18405 lbs	-1575 lbs
	0	1/4/2000	1/5/2000	0	-5175	-5175
	3125	1/5/2000	1/6/2000	3125	-5175	-8300
	4231	1/6/2000	1/7/2000	4231	-8300	-12534
	24502	1/7/2000	1/8/2000	24502	-12531	-37033

**3M Supplier Planning Schedule with Release Capability**

**ASC X12 FORMAT**  
ST\*830\*200004275^

**INTREPRETATION**

ASC X12 Transaction Set: 830  
Transaction Set Control Number: 200004275

BFR\*00\*990101\*\*DL\*A\*19990101  
\*19991231\*20000103^

Original Planning Schedule ID: 990101  
(Forecast Start Date is 01/01/1999)  
Schedule Type Qualifier: DL = delivery based  
(Consumption) Based Quantity Qualifier:  
A = actual discrete quantities  
Forecast Start Date: 01/01/1999  
Forecast End Date: 12/31/1999  
Forecast Generated Date: 01/03/2000

REF\*ZZ\*I2 RYTHYM^

Plant Type of Forecasting Tool: I2 Rhythm

N1\*ST\*3M HUTCHINSON\*92\*0150^

Ship To: 3M Hutchinson  
3M Facility Code: 0150

LIN\*1\*BP\*11001168001^

Line Item Number: 1  
Buyer's Part Number: 11001168001

UIT\*LB^

Unit of Measure Code: LB = pound

FST\*19842\*D\*C\*20000102\*20000103^

Daily Planning Quantity: 19842  
Beginning Date: 01/02/2000  
Ending Date: 01/03/2000

QTY\*47\*19842.0000\*LB^

Starting Balance: 19842 pounds

QTY\*99\*6612.00000\*LB^

Quantity on Hand: 6612 pounds

QTY\*48\*13230.0000\*LB^

Ending Balance: 13230 pounds

FST\*18405\*D\*C\*20000101\*20000104^

Daily Planning Quantity: 18405  
Beginning Date : 01/01/2000  
Ending Date: 01/04/2000

QTY\*99\*18405.0000\*LB^

Quantity on Hand: 18405 pounds

QTY\*47\*13230.0000\*LB^

Starting Balance: 13230 pounds

QTY\*48\*-5175.00000\*LB^

Ending Balance: -1575 pounds

FST\*0\*D\*C\*20000104\*20000105^

Daily Planning Quantity: 0  
Beginning Date: 01/04/2000  
Ending Date: 01/05/2000

QTY\*99\*0\*LB^

Quantity on Hand: 0 pounds

QTY\*47\*-5175.00000\*LB^

Starting Balance: -5175

QTY\*48\*-5175.00000\*LB

Ending Balance: -5175

### 3M Supplier Planning Schedule with Release Capability

FST*3125*D*C*20000105*20000106^	Daily Planning Quantity: 3125 Beginning Date: 01/05/2000 Ending Date: 01/06/2000
QTY*99*3125.00000*LB^	Quantity on Hand: 3125
QTY*47*-5175.00000*LB^	Starting Balance: -5175
QTY*48*-8300.00000*LB^	Ending Balance: -8300
FST*4231*D*C*20000106*20000107^	Daily Planning Quantity: 4231 Beginning Date: 01/06/2000 Ending Date: 01/07/2000
QTY*99*4231.00000*LB^	Quantity on Hand: 4231
QTY*47*-8300.00000*LB^	Starting Balance: -8300
QTY*48*-12534.0000*LB^	Ending Balance: -12534
FST*24502*D*C*20000107*20000108^	Daily Planning Quantity: 24502 Beginning Date: 01/07/2000 Ending Date: 01/08/2000
QTY*99*24502.0000*LB^	Quantity on Hand: 24502
QTY*47*-12531.0000*LB^	Starting Balance: -12531
QTY*48*-37033.0000*LB^	Ending Balance: -37033
CTT*1^	Number of Line Items: 1
SE*32*200004275	Number of Segments: 32 Transaction Set Control Number: 200004275

**NOTE: Sample planning schedule contains fictitious data.**