

# 830 BorgWarner Material Release

Functional Group ID=**PS**

## Introduction:

This Standard 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		
	190	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
LOOP ID - N1						200	
M	230	N1	Name	M	1		
M	250	N3	Address Information	M	2		
M	260	N4	Geographic Location	M	1		
M	280	PER	Administrative Communications Contact	M	2		

## 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		
	080	PID	Product/Item Description	O	1000		
	150	PER	Administrative Communications Contact	O	3		
	230	ATH	Resource Authorization	O	20		
LOOP ID - FST						>1	
	410	FST	Forecast Schedule	O	1		n1
LOOP ID - SHP						25	
	470	SHP	Shipped/Received Information	O	1		

## 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		n2
M	020	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. 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.
2. 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.

**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>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

**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:**

#### Data Element Summary

				Attributes
				ANSI /
				BW Features
Ref.	Data	Name		
Des.	Element			
M	BFR01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			05 Replace	
127	BFR02	Reference Identification		
			X AN 1/30	
			X AN 1/20	
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			If a release number is not used this field is mandatory - either BFR02 or BFR03 must be used	
328	BFR03	Release Number		
			X AN 1/30	
			X AN 1/10	
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
			If a Reference ID is not used this field is mandatory - either BPR02 or BPR03 must be used	
M	BFR04	675	Schedule Type Qualifier	M ID 2/2
			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	
M	BFR05	676	Schedule Quantity Qualifier	M ID 1/1
			Code identifying the type of quantities used when defining a schedule or forecast	
			A Actual Discrete Quantities	
			C Cumulative Quantities	
M	BFR06	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			Forecast start date	

**M**

**BFR08**

**373**

**Date**

**M DT 8/8**

Date expressed as CCYYMMDD

Date forecast created

**Segment:** **PER** **Administrative Communications Contact**  
**Position:** 280  
**Loop:** N1  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 2  
**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

Attributes				
	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>ANSI /</u>
	<u>Des.</u>	<u>Element</u>		<u>BW Features</u>
M	PER01	366	<b>Contact Function Code</b>	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named.	
			EX Expeditor	
			IC Information Contact	
			SC Schedule Contact	
M	PER03	365	<b>Communication Number Qualifier</b>	M ID 2/2
			Code identifying the type of communication number.	
			FX Facsimile	
			TE Telephone	
M 364		PER04	<b>Communication Number</b>	
			<u>X AN 1/80</u>	
			M AN 1/15	
			Complete communications number including country or area code when applicable.	

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**

				Attributes
				ANSI /
				<u>BW</u> <u>Features</u>
M	<u>Ref.</u> <u>Des.</u> REF01	<u>Data</u> <u>Element</u> 128	<u>Name</u> Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification L1 Letters or Notes	
127		REF02	Reference Identification <u>X AN 1/30</u>	
			X AN 1/15 Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This is a sequential number indicating the sequential position of this note within the transaction set	
	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

<b>Segment:</b>	<b>TD5</b>	<b>Carrier Details (Routing Sequence/Transit Time)</b>
<b>Position:</b>	190	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	12	
<b>Purpose:</b>	To specify the carrier and sequence of routing and provide transit time information	
<b>Syntax Notes:</b>	<b>1</b> At least one of TD502 TD504 TD505 TD506 or TD512 is required. <b>2</b> If TD502 is present, then TD503 is required. <b>3</b> If TD507 is present, then TD508 is required. <b>4</b> If TD510 is present, then TD511 is required. <b>5</b> If TD513 is present, then TD512 is required. <b>6</b> If TD514 is present, then TD513 is required. <b>7</b> If TD515 is present, then TD512 is required.	
<b>Semantic Notes:</b>	<b>1</b> TD515 is the country where the service is to be performed.	
<b>Comments:</b>	<b>1</b> When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.	

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u> <u>ANSI /</u> <u>BW Features</u>
TD501	133	<b>Routing Sequence Code</b>	<b>O ID ½</b>
		Code describing the relationship of a carrier to a specific shipment movement	
		1	1st Carrier after Origin Carrier
		2	2nd Carrier after Origin Carrier
		3	3rd Carrier after Origin Carrier
		4	4th Carrier after Origin Carrier
		5	5th Carrier after Origin Carrier
		6	6th Carrier after Origin Carrier
		7	7th Carrier after Origin Carrier
		8	8th Carrier after Origin Carrier
		9	9th Carrier after Origin Carrier
		A	Origin Carrier, Agent's Routing (Rail)
		B	Origin/Delivery Carrier (Any Mode)
		O	Origin Carrier (Air, Motor, or Ocean)
		Z	Mutually Defined
TD502	66	<b>Identification Code Qualifier</b>	<b>X ID ½</b>
		Code designating the system/method of code structure used for Identification Code (67)	
		TD502 and TD503 are used to indicate specific carrier information	
		1	D-U-N-S Number, Dun & Bradstreet
		2	Standard Carrier Alpha Code (SCAC)
		91	Assigned by Seller or Seller's Agent
		92	Assigned by Buyer or Buyer's Agent
		93	Code assigned by the organization originating the transaction set
	TD503	<b>Identification Code</b>	
67		<b>X AN 2/80</b>	
		<b>X AN 2/30</b>	
		Code identifying a party or other code	



<b>TD504</b>	<b>91</b>	<b>Transportation Method/Type Code</b>	<b>X ID ½</b>
		Code specifying the method or type of transportation for the shipment	
		These codes are used for non-specific carrier information	
		AF Air Freight	
		CE Customer Pickup / Customer's Expense	
		D Parcel Post	
		E Expedited Truck	
		H Customer Pickup	
		J Motor	
		L Contract Carrier	
		M Motor (Common Carrier)	
		P Private Carrier	
		SR Supplier Truck	
		T Best Way (Shippers Option)	
		U Private Parcel Service	
<b>TD505</b>	<b>387</b>	<b>Routing</b>	<b>X AN 1/35</b>
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
		Free form routing information	

**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.

#### Data Element Summary

				Attributes
				ANSI /
				BW Features
Ref.	Data	Name		
Des.	Element			
M	N101	98	Entity Identifier Code	M ID 2/3
Code identifying an organizational entity, a physical location, property or an individual				
MI Planning Schedule/Material Release Issuer				
ST Ship To				
SU Supplier/Manufacturer				
N102	93	Name	X	AN 1/60
Free-form name				
N103	66	Identification Code Qualifier	X	ID 1/2
Code designating the system/method of code structure used for Identification Code (67)				
1 D-U-N-S Number, Dun & Bradstreet				
92 Assigned by Buyer or Buyer's Agent				
This code is used if the identification code was assigned by BorgWarner				
N104 Identification Code				
67		X	AN	2/80
X AN 2/30				
Code identifying a party or other code				

**Segment:** N3 Address Information  
**Position:** 250  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

#### Data Element Summary

<b>Ref.</b>	<b>Data</b>	<b>Name</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>	
M	N301	Address Information
166		<u>M AN 1/55</u>
		M AN 1/40
		Address information
	N302	Address Information
166		<u>O AN 1/55</u>
		O AN 1/40
		Address information

**Attributes**  
**ANSI /**  
**BW Features**

**Segment:** **N4 Geographic Location**  
**Position:** 260  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**  
**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.

#### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
			ANSI / BW Features
19	N401	City Name	
		<u>O AN 2/30</u>	
		<b>O AN 2/10</b>	
		Free-form text for city name	
N402	156	<b>State or Province Code</b>	<b>O ID 2/2</b>
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	<b>Postal Code</b>	<b>O ID 3/15</b>
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
N404	26	<b>Country Code</b>	<b>O ID 2/3</b>
		Code identifying the country	

<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>	1	If either LIN04 or LIN05 is present, then the other is required.
	2	If either LIN06 or LIN07 is present, then the other is required.
	3	If either LIN08 or LIN09 is present, then the other is required.
	4	If either LIN10 or LIN11 is present, then the other is required.
	5	If either LIN12 or LIN13 is present, then the other is required.
	6	If either LIN14 or LIN15 is present, then the other is required.
	7	If either LIN16 or LIN17 is present, then the other is required.
	8	If either LIN18 or LIN19 is present, then the other is required.
	9	If either LIN20 or LIN21 is present, then the other is required.
	10	If either LIN22 or LIN23 is present, then the other is required.
	11	If either LIN24 or LIN25 is present, then the other is required.
	12	If either LIN26 or LIN27 is present, then the other is required.
	13	If either LIN28 or LIN29 is present, then the other is required.
	14	If either LIN30 or LIN31 is present, then the other is required.
<b>Semantic Notes:</b>	1	LIN01 is the line item identification
<b>Comments:</b>	1	See the Data Dictionary for a complete list of IDs.
	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.

#### Data Element Summary

			<b>Attributes</b>	
			<b>ANSI /</b>	<b>BW Features</b>
350		<b>LIN 01</b>	<b>Assigned Identification</b>	
			<b>O AN 1/20</b>	
M	LIN02	235	<b>O AN 1/10</b>	
			Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	235	<b>Product/Service ID Qualifier</b>	<b>M ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
M	LIN03		Buyers part number is mandatory and will always be in LIN03.	
			BP Buyer's Part Number	
234	LIN03		<b>Product/Service ID</b>	
			<b>M AN 1/48</b>	
	LIN04	235	<b>M AN 1/25</b>	
			Identifying number for a product or service	
	LIN04	235	<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)	
	LIN05		Revision level and purchase order number are optional and may be in LIN05 or LIN07	
			EC Engineering Change Level	
234	LIN05		This code is used for "part revision level"	
			PO Purchase Order Number	
	LIN05		<b>Product/Service ID</b>	
			<b>X AN 1/48</b>	
			<b>X AN 1/15</b>	
			Identifying number for a product or service	



234	LIN06	235	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			EC	Engineering Change Level	
				This code is used for "part revision level"	
			PO	Purchase Order Number	
	LIN07		<b>Product/Service ID</b>		
			<u><b>X AN 1/48</b></u>		
			<b>X AN 1/15</b>		
			Identifying number for a product or service		

**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

				Attributes
				ANSI /
				<u>BW Features</u>
M	<u>Ref.</u> <u>Des.</u> UIT01	<u>Data</u> <u>Element</u> C001	<u>Name</u> <b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	<b>M</b>
M	C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CH Container DZ Dozen EA Each FT Foot GA Gallon LB Pound PR Pair ST Set UN Unit YD Yard	<b>M ID 2/2</b>
212		UIT02	<b>Unit Price</b> <u>X R 1/17</u>  <b>X R 1/6</b> Price per unit of product, service, commodity, etc.	



<b>Segment:</b>	<b>PID</b> <b>Product/Item Description</b>
<b>Position:</b>	080
<b>Loop:</b>	LIN            Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1000
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>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.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	

#### Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
				ANSI / BW Features
M	PID01	349	Item Description Type	M ID 1/1
			Code indicating the format of a description F                      Free-form	
352		PID05	Description	
			X AN 1/80	
			X AN 1/25	
			A free-form description to clarify the related data elements and their content	
			This is the part description and is required by BorgWarner	

**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				Attributes
	Ref. Des.	Data Element	Name	ANSI / BW Features
M	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			EX Expeditor	
			BD Buyer Name or Department	
			Buyer or material scheduler name	
93		PER02	Name	
			<u>O AN 1/60</u>	
			O AN 1/20	
			Free-form name	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			TE Telephone	
364		PER04	Communication Number	
			<u>X AN 1/80</u>	
			X AN 1/15	
			Complete communications number including country or area code when applicable	

**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

Ref.	Data	Name	Attributes
Des.	Element		
M	ATH01	672 Resource Authorization Code	M ID 2/2
		Code identifying the resource which the buyer is authorizing the seller to commit to	
		FI Finished (Labor, Material, and Overhead/Burden)	
		MT Material	
	ATH02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Authorization through date	
	ATH03	380 Quantity	X R 1/15
		Numeric value of quantity	
		Authorization cumulated quantity	
	ATH05	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Start date for cumulative quantity authorization	

<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>	<b>1</b> If either FST06 or FST07 is present, then the other is required. <b>2</b> If either FST08 or FST09 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> 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.
<b>Comments:</b>	<b>1</b> 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. <b>2</b> 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.

#### Data Element Summary

				Attributes
				ANSI /
				BW Features
M	FST01	380	<b>Quantity</b>	M R 1/15
			Numeric value of quantity	
M	FST02	680	<b>Forecast Qualifier</b>	M ID 1/1
			Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	
			C Firm	
			D Planning	
M	FST03	681	<b>Forecast Timing Qualifier</b>	M ID 1/1
			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)	
			Q Quarterly (Calendar Quarters)	
			T Four week bucket (13 buckets per year)	
			W Weekly Bucket (Monday through Sunday)	
			X Weekly Bucket (7 day interval)	
M	FST04	373	<b>Date</b>	M DT 8/8
			Date expressed as CCYYMMDD	
			Schedule start date	
	FST05	373	<b>Date</b>	O DT 8/8
			Date expressed as CCYYMMDD	
			End date if flexible interval {F} is used in FST03	
	FST08	128	<b>Reference Identification Qualifier</b>	X ID 2/3
			Code qualifying the Reference Identification	
			RE Release Number	
	FST09		<b>Reference Identification</b>	
127			<b>X AN 1/30</b>	
			<b>X AN 1/20</b>	
			Reference information as defined for a particular Transaction Set or as	

specified by the Reference Identification Qualifier  
This is the reference number for this forecast schedule

<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>	1	If SHP01 is present, then SHP02 is required.
	2	If SHP03 is present, then at least one of SHP04 or SHP05 is required.
	3	If SHP04 is present, then SHP03 is required.
	4	If SHP05 is present, then SHP03 is required.
<b>Semantic Notes:</b>	1	SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
	2	SHP06 is the cumulative quantity end date.
<b>Comments:</b>	1	The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.
	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.

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier	O ID 2/2
		Code specifying the type of quantity	
		01 Discrete Quantity	
		02 Cumulative Quantity	
		07 Cumulative Quantity - Rejected Material	
SHP02	380	Quantity	X R 1/15
		Numeric value of quantity	
		If SHP01 = "01" and SHP03 = "050" this is the Last Received Quantity	
		If SHP01 = "02" and SHP03 = "051" this is the Cumulative Quantity Received	
		If SHP01 = "07" and SHP03 = "051" this is the Cumulative Scrap Qty Received	
SHP03	374	Date/Time Qualifier	X ID 3/3
		Code specifying type of date or time, or both date and time	
		050 Received	
		051 Cumulative Quantity Start	
		Cumulative quantity received	
SHP04	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	
		If SHP01 = "01" and SHP03 = "050" this is last received date	
		If SHP01 = "02" and SHP03 = "051" this is cumulative qty received start date	
		If SHP01 = "07" and SHP03 = "051" this is cumulative scrap qty received start date	
SHP06	373	Date	O DT 8/8
		Date expressed as CCYYMMDD	
		If SHP01 = "07" this is cumulative scrap quantity received end date	
		If SHP01 = "02" this is cumulative quantity received end date	

**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	M N0 1/6
			Total number of line items in the transaction set	
			Total number of LIN segments	

**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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</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	