EDI Implementation Guidelines

ANSI X12 Version /Release 3020
830 Planning Schedule with Release Capability

830 Planning Schedule with Release Capability

Functional Group ID= PS

Introduction:

This standard provides the format and establishes the data contents of a planning schedule with release capability transaction set. The planning schedule with release capability transaction set provides 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:

	Pos No	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
	030	NTE	Note/Special Instruction	F	100		
Not Used	040	CUR	Currency	O	10		
Not Used	050	REF	Reference Numbers	O	12		
	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		
			LOOP-ID – N1			200	
M	090	N1	Name	M	1		
Not Used	100	N2	Additional Name Information	O	2		
Not Used	110	N3	Address Information	O	2		
Not Used	120	N4	Geographic Location	O	1		
Not Used	130	REF	Reference Numbers	O	12		
	140	PER	Administrative Communications Contact	O	3		
Not Used	150	FOB	F.O.B. Related Instructions	O	1		

	Pos No	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes Comments
Not Used	160	CTP	Pricing Information	O	25		
Not Used	170	SSS	Special Services	O	25		
Not Used	180	CSH	Header Sale Condition	O	1		
Not Used	190	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
Not Used	200	DTM	Date/Time/Period	O	10		
Not Used	210	PID	Product/Item Description	O	200		
Not Used	220	MEA	Measurements	O	40		
Not Used	230	PWK	Paperwork	O	25		
Not Used	240	PKG	Marking, Packaging, Loading	O	25		
Not Used	250	TD1	Carrier Details (Quantity and Weight)	O	2		
Not Used	260	TD5	Carrier Details (Routing Sequence/Transit)	O	12		
Not Used	270	TD3	Carrier Details (Equipment)	O	12		
Not Used	280	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	290	MAN	Marks and Numbers	O	10		

Detail:

	Pos No	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes Comments
			LOOP-ID-LIN			10000	
M	010	LIN	Item Identification	M	1		
M	020	UIT	Unit Detail	M	1		
Not used	021	DTM	Date/Time/Period	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		
	080	PID	Product/Item Description	O	1000		
Not Used	090	MEA	Measurements	M	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 Numbers	O	12		
Not Used	150	PER	Administrative Communications Contact	O	3		
Not Used	160	SSS	Special Services	O	25		
Not Used	170	ITA	Allowance, Charge or Service	O	10		
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	205	LDT	Lead Time	O	12		
Not Used	206	QTY	Quantity	O	>1		
			LOOP ID - SLN			100	
Not used	207	SLN	Subline Item Detail	O	1		
Not used	208	PID	Product/Item Description	O	1000		
			LOOP ID – N1			200	
M	210	N1	Name	M	1		
Not Used	220	N2	Additional Name Information	O	2		

Not used	230	N3	Address Information	O	2		
Not used	240	N4	Geographic Location	O	1		
Not used	250	REF	Reference Numbers	O	12		
Not used	260	PER	Administrative Communication Contact	O	3		
Not used	270	FOB	F.O.B. Related Instructions	O	1		
			LOOP ID - FST			260	
Not used	280	FST	Forecast Schedule	O	1		
Not used	281	SDQ	Destination Quantity	O	50		
			LOOP ID – SDP			260	
M	290	SDP	Ship/Delivery Pattern	M	1		
M	300	FST	Forecast Schedule	M	260		
M	320	ATH	Resource Authorization	M	20		
			LOOP ID - SHP			25	
M	330	SHP	Shipped/Received Information	M	1		
M	340	REF	Reference Numbers	M	5		
Not Used	350	TD1	Carrier Details (Quantity and Weight)	O	1		
Not Used	360	TD5	Carrier Details (Routing Sequence/Transit /Time)	O	1		
Not Used	370	TD3	Carrier Details (Equipment)	O	12		
Not used	380	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	390	MAN	Marks and Numbers	O	10		

Summary:

	Pos No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes
M	010	CTT	Transactions Total	M	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 occurence 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

Segment:	**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:		
Comments:	1	The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Transaction Set Identifier Code	**M ID 3/3**
M	ST01	143	Code uniquely identifying a Transaction Set	
			830 X12.14 Planning Schedule	
			Transaction Set Control Number	**M AN 4/9**
M	ST02	329	Identifying control number assigned by the originator for a transaction set.	

BFR

Segment:	**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:	
Comments:	1 If BFR01 equals "04" (Net Change) - BFR09 is required.
	2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
	3 BFR06 - Forecast Horizon Start Date: The date when the forecast horizon (envelope) begins.
	4 BFR07 - Forecast Horizon End Date: The date when the forecast horizon (envelope) ends.
	5 BFR08 - Date Forecast Generated: The date the forecast data was generated.
	6 BFR09 - Date Forecast Updated: The date the forecast was updated with "Net Change" data. (Used only when element 353 in BFR04 equals "04", meaning net change.)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
		Transaction Set Purpose Code	
		Code identifying purpose of transaction set	
M BFR01	353	05 Replace	M ID 2/2
		Reference Number	
		Reference number or identification number as defined for a particular	
X BFR02	127	Transaction Set, or as specified by the Reference Number Qualifier.	X AN 1/30
BFR03	328	**Release Number**	X AN 1/30
		Schedule Type Qualifier	
		Code identifying the type of dates used when defining a shipping or	
		delivery time in a schedule or forecast	
		DL Delivery Based	
M BFR04	675	SH Shipment Based	M ID 2/2
		Schedule Quantity Qualifier	
		Code identifying the type of quantities used when defining a schedule or forecast	
M BFR05	676	A Actual Discrete Quantities	M ID 1/1

			Date		
			Date (YYMMDD)		
M	BFR06	373	Horizon Start Date	M	DT 6/6
			Date		
			Date (YYMMDD)		
M	BFR07	373	Stop Date	M	DT 6/6
			Date		
M	BFR08	373	Date (YYMMDD)	M	DT 6/6
			Date		
X	BFR09	373	Date (YYMMDD)	O	DT 6/6
			Contrct Number		
X	BFR10	367	Contract number	O	AN 1/30
			Purchase Order Number		
X	BFR11	324	Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN 1/22
			Planning Schedule Type Code		
			Code identifying type of planning schedule used		
	BFR12	783	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2

NTE

Segment:	**Note/Special Instruction**
Position:	030
Loop:	
Level:	Heading
Usage:	Floating
Max Use:	100
Purpose:	To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:	
Semantic Notes:	
Comments:	1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
		Note Reference Code	
		Code identifying the functional area or purpose for which the note applies	
X NTE01	363	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 3/3
		Free Form Message	
M NTE02	3	Free-form text	M AN 1/60

PER

Segment:	**Administrative Communications Contact**
Position:	060
Loop:	
Level:	Heading
Usage:	Optinal
Max Use:	3
Purpose:	To identify a person or office to whom administrative communications should be directed
Syntax Notes:	If either PER03 or PER04 is present, then the other is required.
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Contact Function Code	
			Code identifying the major duty or responsibility of the person or group named	
M	PER01	366	Refer to 003020 Data Element Dictionary for acceptable code values.	M ID 2/2
			Name	
	PER02	93	Free-form name	O AN 1/35
			Communication Number Qualifier	
			Code identifying the type of communication number	
	PER03	365	Refer to 003020 Data Element Dictionary for acceptable code values.	X ID 2/2
			Communication Number	
	PER04	364	Complete communications number including country or area code when applicable	X AN 7/25

N1

Segment:	**Name**
Position:	090
Loop:	N1 Mandatory
Level:	Heading
Usage:	Mandatory
Max Use:	
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.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
			Entity Identifier Code		
			Code identifying an organizational entity or a physical location.		
			MI Planning Schedule/Material Release Issuer		
			SF Ship From		
M	N101	98	SU Supplier/Manufacturer		M ID 2/2
			Name		
	N102	93	Free-form name		X AN 1/35
			Identification Code Qualifier		
			Code designating the system/method of code structure used for Identification Code (67)		
			1 Dun and Bradstreet (Credit Reporting) (DUNS)		
	N103	66	92 Assigned by Buyer or Buyer's Agent		X ID 1/2
			Identification Code		
	N104	67	Code identifying a party.		X AN 2/17

PER

Segment:		**Administrative Communications Contact**	
Position:		140	
Loop:			
Level:		Heading	
Usage:		Optinal	
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.	
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Contact Function Code	
			Code identifying the major duty or responsibility of the person or group named	
			BD Buyer Name or Department	
M	PER01	366	NT Notification Contact	**M ID 2/2**
			Name	
	PER02	93	Free-form name	**O AN 1/35**
			Communication Number Qualifier	
			Code identifying the type of communication number	
	PER03	365	TE Telephone	**X ID 2/2**
			Communication Number	
	PER04	364	Complete communications number including country or area code when applicable	**X AN 7/25**

LIN

Segment:	**Item Identification**	
Position:	010	
Loop:	LIN Mandatory	
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify basic item identification data	
Syntax Notes:	1	If LIN04 is present, then LIN05 is required.
	2	If LIN06 is present, then LIN07 is required.
	3	If LIN08 is present, then LIN09 is required.
	4	If LIN10 is present, then LIN11 is required.
	5	If LIN12 is present, then LIN13 is required.
	6	If LIN14 is present, then LIN15 is required.
	7	If LIN16 is present, then LIN17 is required.
	8	If LIN18 is present, then LIN19 is required.
	9	If LIN20 is present, then LIN21 is required.
	10	If LIN22 is present, then LIN23 is required.
	11	If LIN24 is present, then LIN25 is required.
	12	If LIN26 is present, then LIN27 is required.
	13	If LIN28 is present, then LIN29 is required.
	14	If LIN30 is present, then LIN31 is required.
Semantic Notes:		
Comments:	1	See the Data Dictionary for a complete list of ID's.
	2	LIN01 is the line item identification
	3	LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Assigned Identification	
X	LIN01	350	Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/11
			Product/Service ID Qualifier	
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
M	LIN02	235	BP Buyer's Part Number	M ID 2/2

			Product/Service ID		
M	LIN03	234	Identifying number for a product or service	M	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	LIN04	235	PO Purchase Order Number	O	ID 2/2
			Product/Service ID		
M	LIN05	234	Identifying number for a product or service	M	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN06	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN07	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN08	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN09	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN10	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN11	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN12	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN13	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN14	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN15	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN16	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN17	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN18	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN19	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN20	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN21	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN22	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN23	234	Identifying number for a product or service	X	AN 1/30

			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN24	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN25	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN26	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN27	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN28	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN29	234	Identifying number for a product or service	X	AN 1/30
			Product/Service ID Qualifier		
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
X	LIN30	235	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2
			Product/Service ID		
X	LIN31	234	Identifying number for a product or service	X	AN 1/30

UIT

Segment: **Unit Detail**
Position: 020
Loop: LIN   Mandatory
Level: Detail
Usage: Mandatory
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

	Ref. Des.	Data Element	Name		Attributes
			Unit or Basis for Measurement Code		
			Code identifying the basic unit of measurement.		
M	UIT01	355	Refer to 003020 Data Element Dictionary for acceptable code values.	M	ID 2/2
			Unit Price		
X	UIT02	212	Price per unit of product, service, commodity, etc.	X	R 1/14
			Basis of Unit Price Code		
			Code identifying the type of unit price for an item		
X	UIT03	639	Refer to 003020 Data Element Dictionary for acceptable code values.	O	ID 2/2

PID

Segment:		**Product/Item Description**
Position:		080
Loop:		LIN Mandatory
Level:		Detail
Usage:		Mandatory
Max Use:		1000
Purpose:		To describe a product or process in coded or free-form format
Syntax Notes:	1	If PID04 is present, then PID03 is required.
	2	At least one of PID04 or PID05 is required.
Semantic Notes:		
Comments:	1	If PID01 = ``F'', then PID05 is used. If PID01 = ``S'', then PID04 is used. If PID01 = ``X'', then both PID04 and PID05 are used.
	2	Use PID03 to indicate the organization that publishes the code list being referred to.
	3	PID04 should be used for industry-specific product description codes.
	4	Use PID06 when necessary to refer to the product surface or layer being described in the segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Item Description Type	
			Code indicating the format of a description	
M	PID01	349	F Free-form	M ID 1/1
			Product/Process Characteristic Code	
			Code specifying the product or process characteristic being described.	
X	PID02	750	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/3
			Agency Qualifier Code	
			Code identifying the agency assigning the code values	
X	PID03	559	Refer to 003020 Data Element Dictionary for acceptable code values.	X ID 2/2
			Product Description Code	
			A code from an industry code list which provides specific data about a	
X	PID04	751	product characteristic	X AN 1/12
			Description	
	PID05	352	A free-form description to clarify the related data elements and their content	X An 1/80
			Surface/Layer/Position Code	
			Code indicating the product surface, layer or position that is being described	
X	PID06	752	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2

N1

Segment:	**Name**		
Position:	210		
Loop:	N1	Mandatory	
Level:	Heading		
Usage:	Mandatory		
Max Use:			
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.	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
			Entity Identifier Code		
			Code identifying an organizational entity or a physical location.		
M	N101	98	ST Ship to	M	ID 2/2
			Name		
	N102	93	Free-form name	X	AN 1/35
			Identification Code Qualifier		
			Code designating the system/method of code structure used for Identification Code (67)		
			1 Dun and Bradstreet (Credit Reporting) (DUNS)		
	N103	66	92 Assigned by Buyer or Buyer's Agent	X	ID 1/2
			Identification Code		
	N104	67	Code identifying a party.	X	AN 2/17

SDP

Segment:	**Ship/Delivery Pattern**	
Position:	290	
Loop:	SDP Mandatory	
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify specific ship/delivery requirements	
Syntax Notes:		
Semantic Notes:		
Comments:	**1**	The intent of this segment is to define the routine ship or delivery patterns, asrequired, when order quantities are in "buckets", such as weekly, monthly. Ship/delivery patterns eliminate the need to transmit discrete quantities and dates for each required shipment or delivery. It is assumed that a "bucketed" quantity is to be divided equally by the ship/delivery pattern. For example, a weekly quantity of 100 with a delivery pattern of Monday and Wednesday would result in 50 to be delivered on Monday and 50 to be delivered on Wednesday.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
		Ship/Delivery or Calendar Pattern Code	
		Code which specifies the days for routine shipments or deliveries.	
M SDP01	678	Y No Pattern	M ID 1/2
		Ship/Delivery Pattern Time Code	
		Code which specifies the time for routine shipments or deliveries	
M SDP02	679	Z Mutually Defined	M ID 1/1
		Ship/Delivery or Calendar Pattern Code	
		Code which specifies the days for routine shipments or deliveries.	
X SDP03	678	Refer to 003020 Data Element Dictionary for acceptable code values	O ID 1/2
		Ship/Delivery Pattern Time Code	
		Code which specifies the time for routine shipments or deliveries	
X SDP04	679	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 1/1
		Ship/Delivery or Calendar Pattern Code	
		Code which specifies the days for routine shipments or deliveries.	
X SDP05	678	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 1/2
		Ship/Delivery Pattern Time Code	
		Code which specifies the time for routine shipments or deliveries	
X SDP06	679	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 1/1
		Ship/Delivery or Calendar Pattern Code	
		Code which specifies the days for routine shipments or deliveries.	
X SDP07	678	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 1/2
		Ship/Delivery Pattern Time Code	
		Code which specifies the time for routine shipments or deliveries	
X SDP08	679	Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 1/1

FST

Segment:	**Forecast Schedule**	
Position:	300	
Loop:	SDP	Mandatory
Level:	Detail	
Usage:	Mandatory	
Max Use:	260	
Purpose:	To specify the forecast dates and quantities	

Syntax Notes:
1. If either FST06 or FST07 is present, then the other is required.
2. If either FST08 or FST09 is present, then the other is required.

Semantic Notes:

Comments:
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.
2. If FST03-"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.
3. FST06 - To qualify 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 "AM" or "PM"

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Quantity	
M	FST01	380	Numeric value of quantity	M R 1/15
			Forecast Qualifier	
			Code specifying the sender's confidence level of the forecast data.	
			A Immediate	
			C Firm	
M	FST02	680	D Planning	M ID 1/1
			Forecast Timing Qualifier	
			Code specifying interval grouping of the forecast	
			D Discrete	
			F Flexible Interval (from Date X through Date Y)	
M	FST03	681	W Weekly Bucket (Monday through Sunday)	M ID 1/1
			Date	
M	FST04	373	Date (YYMMDD)	M DT 6/6
			Date	
	FST05	373	Date (YYMMDD)	O DT 6/6
			Date/Time Qualifier	
			Code specifying type of date or time, or both date and time	
X	FST06	374	Refer to 003020 Data Element Dictionary for acceptable code values.	X ID 3/3

X			**Time**		
	FST07	337	Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	**X**	**TM 4/6**
			Reference Number Qualifier		
			Code qualifying the Reference Number.		
X	FST08	128	Refer to 003020 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
			Reference Number		
			Reference number or identification number as defined for a particular		
X	FST09	127	Transaction Set, or as specified by the Reference Number Qualifier.	**X**	**AN 1/30**

ATH

Segment:	**Resource Authorization**
Position:	320
Loop:	LIN Mandatory
Level:	Detail
Usage:	Mandatory
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:

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

2   ATH02 - Resource Authorization Thru-Date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.

3   ATH03 - Current Cumulative Requirements Quantity: The cumulative quantity that has been authorized to-date from the cumulative start-date (ATH05) through the resource authorization thru-date (ATH02).

4   ATH04 - Maximum Cumulative Requirements Quantity: The maximum cumulative quantity that has been authorized to-date from the cumulative start-date (ATH05) through the resource authorization thru-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.

5   ATH05 - 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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
		Resource Authorization Code	
		Code identifying the resource which the buyer is authorizing the seller to commit to	
		FI Finished (Labor, Material, and Overhead/Burden)	
		MT Material	
M ATH01	**672**	PQ Cumulative Quantity Required Prior to First Schedule Period	**M ID 2/2**
		Date	
X ATH02	**373**	Date (YYMMDD)	**X DT 6/6**
		Quantity	
ATH03	**380**	Numeric value of quantity	**X R 1/15**

			Quantity		
X	ATH04	380	Numeric value of quantity	O	R 1/15
			Date		
	ATH05	373	Date (YYMMDD)	X	DT 6/6

SHP

Segment:	**Shipped/Received Information**
Position:	330
Loop:	SHP Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify shipment and/or receipt information
Syntax Notes:	1 If SHP01 is present, then SHP02 is required.
	2 If SHP04 is present, then SHP03 is required.
Semantic Notes:	
Comments:	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 = "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.
	3 SHP04 - The date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
	4 SHP06 - The cumulative quantity end date.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
		Quantity Qualifier	
		Code specifying the type of quantity	
		01 Discrete Quantity	
SHP01	673	02 Cumulative Quantity	O ID 2/2
		Quantity	
SHP02	380	Numeric value of quantity	X R 1/15
		Date/Time Qualifier	
		Code specifying type of date or time, or both date and time	
		050 Received	
SHP03	374	051 Cumulative Quantity Start	X ID 3/3
		Date	
SHP04	373	Date (YYMMDD)	O DT 6/6
		Time	
X SHP05	337	Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O TM 4/6
		Date	
		Date (YYMMDD)	
SHP06	373	Last Recipt Date	O DT 6/6
		Time	
X SHP07	337	Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O TM 4/6

REF

Segment:	**Shipped/Received Information**		
Position:	340		
Loop:	SHP	Mandatory	
Level:	Detail		
Usage:	Mandatory		
Max Use:	5		
Purpose:	To specify identifying numbers.		
Syntax Notes:	1	At least one of REF02 or REF03 is required.	
Semantic Notes:			
Comments:			

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
		Reference Number Qualifier	
		Code qualifying the Reference Number.	
M REF01	128	SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment	M ID 2/2
		Reference Number	
		Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	
REF02	127	Last Recipt Shipper Number	X AN 1/30
		Description	
X REF03	352	A free-form description to clarify the related data elements and their content	X AN 1/80

CTT

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
			Number of Line Items	
M	CTT01	354	Total number of line items in the transaction set	M NO 1/6
			Hash Total	
			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	
	CTT02	347	to three-digit field.	O R 1/10
			Weight	
	CTT03	81	Numeric value of weight	O R 1/8
			Unit or Basis for Measurement Code	
			Code identifying the basic unit of measurement.	
	CTT04	355	Refer to 003020 Data Element Dictionary for acceptable code values.	X ID 2/2
			Volume	
	CTT05	183	Value of volumetric measure	O R 1/8
			Unit or Basis for Measurement Code	
			Code identifying the basic unit of measurement.	
	CTT06	355	Refer to 003020 Data Element Dictionary for acceptable code values.	X ID 2/2
			Description	
	CTT07	352	A free-form description to clarify the related data elements and their content	O AN 1/80

SE

Segment: **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

Ref. Des.	Data Element	Name	Attributes
		Number of Included Segments	
M SE01	96	Total number of segments included in a transaction set including ST and SE segments	M NO 1/6
		Transaction Set Control Number	
M SE02	329	Identifying control number assigned by the originator for a transaction set.	M AN 4/9

Example:

```
ISA*00*        *00*        *01*105003        *01*123456
*090908*0814*U*00302*000000055*0*P*:~
GS*PS*105003*123456*090908*081400*55000001*X*003020~
ST*830*1000001~
BFR*05**0000431*DL*A*090908*991231*090908~
N1*ST**92*105003~
N1*SU**01*123456~
LIN**BP*1234-000-000*PO*55123455~
NTE*GEN*DATES SHOWN ARE FOR SHIPMENT BY SUPPLIER~
UIT*EA~
PID*F****DESCRIPTION~
N1*ST**92*105003~
SDP*Y*Z~
FST*2000*C*W*091002~
FST*1000*D*W*091030~
FST*1000*D*W*091204~
FST*1000*D*W*100101~
FST*1000*D*W*100129~
FST*2000*D*W*100226~
FST*0*D*W*100405~
FST*0*D*W*100412~
FST*1000*D*W*100419~
FST*0*D*W*100426~
FST*0*D*W*100501~
FST*1000*D*W*100601~
FST*0*D*W*100701~
FST*0*D*W*100801~
FST*0*D*W*100901~
ATH*PQ**0**090908~
SHP*02*12000*050*090908~
REF*SI*00035846~
CTT*15*10000~
SE*30*1000001~
GE*1*55000001~
IEA*1*000000055~
```

Document Revision

Version	Date	Description	Author
1.0	2009-09-17	Creation	Hans-Ulrich Berger
1.5	2016-Aug-10	Modified JCI or Johnson controls references to be Adient. Removed JCI logo and added Adient logo.	Hemant Bhardwaj