



Agilent Technologies Company Guideline

For
**Electronic
Data
Interchange**
Transaction Set

830

Planning Schedule - Outbound

Functional Group ID=**PO**

Version 003
Release 020
March 2002

830**Planning Schedule with Release Capability****Functional Group=PS****Notes:**

- 2/280 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.
 3/010 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.

Trading Partner:

Agilent Outbound 830 Trading Partner Guidelines for version 3020

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BFR	Beginning Segment for Planning Schedule	M	1			Must use
LOOP ID - N1					200		
090	N1	Name	O	1			Used
LOOP ID - N1					200		
090	N1	Name	O	1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN					10000		
010	LIN	Item Identification	M	1			Must use
020	UIT	Unit Detail	M	1			Must use
LOOP ID - FST					260		
280	FST	Forecast Schedule	O	1		N2/280	Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	M	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number

Comments:

- 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).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set.	M	ID	3/3	Must use
		<u>Code Name</u> 830 X12.14 Planning Schedule				
ST02	329	Transaction Set Control Number Description: Identifying control number assigned by the originator for a transaction set.	M	AN	4/9	Must use

BFR Beginning Segment for Planning Schedule

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

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

Syntax:

1. BFR02 R0203 -- At least one of BFR02 or BFR03 is required.

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.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BFR01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set. <u>Code Name</u> 05 Replace	M	ID	2/2	Must use
BFR02	127	Reference Number Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C	AN	1/30	Used
BFR04	675	Schedule Type Qualifier Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast. <u>Code Name</u> DL Delivery Based	M	ID	2/2	Must use
BFR05	676	Schedule Quantity Qualifier Description: Code identifying the type of quantities used when defining a schedule or forecast. <u>Code Name</u> A Actual Discreet Quantities	M	ID	1/1	Must use
BFR06	373	Date Description: Date (YYMMDD). Trading Partner: Forecast Start Date Since the standard only allows Agilent Technologies to send a 'YYMMDD' date with no century reference, Agilent Technologies advises that trading partners who need to map century to their application use a windowing technique to calculate the century value. Recommended: If the 'YY' portion of the date is between 90-99, map '19' as the century value sent to the application; if the 'YY' portion of the date is between 00-89, map '20' as the century value sent to the application.	M	DT	6/6	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BFR07	373	<p>Date Description: Date (YYMMDD). Trading Partner: Forecast End Date</p> <p>Since the standard only allows Agilent Technologies to send a 'YYMMDD' date with no century reference, Agilent Technologies advises that trading partners who need to map century to their application use a windowing technique to calculate the century value. Recommended: If the 'YY' portion of the date is between 90-99, map '19' as the century value sent to the application; if the 'YY' portion of the date is between 00-89, map '20' as the century value sent to the application.</p>	M	DT	6/6	Must use
BFR08	373	<p>Date Description: Date (YYMMDD). Trading Partner: Schedule Generation Date</p> <p>Since the standard only allows Agilent Technologies to send a 'YYMMDD' date with no century reference, Agilent Technologies advises that trading partners who need to map century to their application use a windowing technique to calculate the century value. Recommended: If the 'YY' portion of the date is between 90-99, map '19' as the century value sent to the application; if the 'YY' portion of the date is between 00-89, map '20' as the century value sent to the application.</p>	M	DT	6/6	Must use

N1 Name

Pos: 090	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

To identify a party by type of organization, name and code

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity or a physical location. <u>Code Name</u> SE Selling Party	M	ID	2/2	Must use
N102	93	Name Description: Free-form name. Trading Partner: Supplier Name	C	AN	1/35	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67). <u>Code Name</u> 92 Assigned by Buyer or Buyer's Agent	C	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party. Trading Partner: Supplier Site Code	C	AN	2/17	Used

N1 Name

Pos: 090	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

To identify a party by type of organization, name and code

Syntax:

R0203 -- At least one of N102 or N103 is required.

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity or a physical location. <u>Code Name</u> ST Ship To	M	ID	2/2	Must use
N102	93	Name Description: Free-form name. Trading Partner: Ship To Name (Inventory Org Name)	C	AN	1/35	Used

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 4

To specify basic item identification data.

Syntax:

C0405 -- If LIN04 is present, then LIN05 is required

Comments:

1. See the Data Dictionary for a complete list of ID's.
2. LIN01 is the line item identification

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). <u>Code Name</u> BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service. Trading Partner: Buyer's Part Number	M	AN	1/30	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). <u>Code Name</u> VP Vendor's (Seller's) Part Number	O	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service. Trading Partner: Vendor Part Number	C	AN	1/30	Used

UIT

Unit Detail

Pos: 020	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 1

To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	355	Unit of Measurement Code	M	ID	2/2	Must use
		Description: Code identifying the basic unit of measurement.				
		<u>Code</u> <u>Name</u>				
		EA Each				

FST Forecast Schedule

Pos: 280	Max: 1
Detail - Optional	
Loop: FST	Elements: 5

To specify the forecasted dates and quantities

Comments:

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
FST01	380	Quantity Description: Numeric value of quantity.	M	R	1/15	Must use						
FST02	680	Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data. <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Firm</td> </tr> <tr> <td>D</td> <td>Planning</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	C	Firm	D	Planning	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>											
C	Firm											
D	Planning											
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of the forecast. <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Discrete</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	D	Discrete	M	ID	1/1	Must use		
<u>Code</u>	<u>Name</u>											
D	Discrete											
FST04	373	Date Description: Date (YYMMDD). Trading Partner: Forecast Start Date <p>Since the standard only allows Agilent Technologies to send a 'YYMMDD' date with no century reference, Agilent Technologies advises that trading partners who need to map century to their application use a windowing technique to calculate the century value. Recommended: If the 'YY' portion of the date is between 90-99, map '19' as the century value sent to the application; if the 'YY' portion of the date is between 00-89, map '20' as the century value sent to the application.</p>	M	DT	6/6	Must use						
FST05	373	Date Description: Date (YYMMDD). Trading Partner: Forecast End Date <p>Since the standard only allows Agilent Technologies to send a 'YYMMDD' date with no century reference, Agilent Technologies advises that trading partners who need to map century to their application use a windowing technique to calculate the century value. Recommended: If the 'YY' portion of the date is between 90-99, map '19' as the century value sent to the application; if the 'YY' portion of the date is between 00-89, map '20' as the century value sent to the application.</p>	O	DT	6/6	Used						

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

To transmit a hash total for a specific element in the transaction set

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set.	M	N0	1/6	Must use

SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comments:

- SE is the last segment of each transaction set.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments.	M	N0	1/6	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number assigned by the originator for a transaction set.	M	AN	4/9	Must use