



**SANMINA-SCI  
CORPORATION**

**PLANNING SCHEDULE  
RESPONSE  
INBOUND**

**830R**

**VERSION**

**004010**

**Prepared By : Sanmina-SCI Information Technology & Services**  
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**Version : 2**

# 830 Planning Schedule with Release Capability

## Functional Group ID=PS

### Introduction:

This 830 Planning Schedule with Release Capability standard provides the format and establishes the data contents of a planning schedule with release capability transaction set. This guideline convention provides the recommended standardized format and establishes the data contents of the Response to Forecast (RTF) for use within the context of an Electronic Data Interchange (EDI) environment.

Response to Forecast is a business process designed to link customer procurement and planning systems with the supplier's order and scheduling systems.

### Heading:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	Must Use	1		
020	BFR	Beginning Segment for Planning Schedule	M	Must Use	1		
LOOP ID - N1							200
230	N1	Name	O	Must Use	1		

### Detail:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - LIN							>1
010	LIN	Item Identification	M	Must Use	1		
LOOP ID - SDP							260
450	SDP	Ship/Delivery Pattern	O	Must Use	1		
460	FST	Forecast Schedule	O	Must Use	260		

### Summary:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	O	Must Use	1		N1
020	SE	Transaction Set Trailer	M	Must Use	1		

### Transaction Set Notes

- Sanmina-SCI requests suppliers return confirmations for each of the first 13 weeks of the forecast, including weeks with zero forecast. Beyond 13 weeks, confirmations can be returned only for weeks with a planned quantity. Suppliers should not return responses to firm schedules in this transaction set.
- Number of line items (CTT01) is the accumulation of the number of LIN segments.

**Available characters:** A-Z, a-z, 0-9, -, +, {, }, [, ], 9, 0, :, ;, %, |, <, >, !, ", \$, ~, ^, &, #, =, |, @, ä, å, ö, Ä, Å, Ö

**Segment:** **ST** **Transaction Set Header**  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**X12 Usage:** Mandatory  
**Sanmina-SCI 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>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability	<b>ID 3/3</b>
Must Use	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>AN4/9</b>

ST~830~0008{

**Segment:** **BFR** Beginning Segment for Planning Schedule  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**X12 Usage:** Mandatory  
**Sanmina-SCI Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates  
**Syntax Notes:** 1 At least one of BFR02 or BFR03 is required.  
**Semantic Notes:** 1 If BFR01 contains the value "04" (Net Change), BFR09 is required.  
 2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.  
 3 BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.  
 4 BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.  
 5 BFR08 is the date forecast generated: The date the forecast data was generated.

**Data Element Summary**

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>BFR01</b>	<b>353</b>	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response	<b>ID 2/2</b>
Must Use	<b>BFR02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>Note: Supplier must return the value sent by SANM in SANM's outbound 830 BFR02 field.</i>	<b>AN 1/30</b>
Must Use	<b>BFR04</b>	<b>675</b>	<b>Schedule Type Qualifier</b> Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast. DL Delivery Based.	<b>ID 2/2</b>
Must Use	<b>BFR05</b>	<b>676</b>	<b>Schedule Quantity Qualifier</b> Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities	<b>ID 1/1</b>
Must Use	<b>BFR06</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD Forecast Start Date	<b>DT 8/8</b>
	<b>BFR07</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD Forecast End Date	<b>DT 8/8</b>
Must Use	<b>BFR08</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD Forecast Generated Date	<b>DT 8/8</b>

BFR~11~XYZ001E34201110811684244818~~DL~A~20110811~20120811~20110811{

**Segment:** **N1** Name  
**Position:** 230  
**Loop:** N1  
**Level:** Heading  
**X12 Usage:** Optional  
**Sanmina-SCI Usage:** Mandatory  
**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**

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>N101</b>	<b>98</b>	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SE Selling Party	<b>ID 2/3</b>
Must Use	<b>N102</b>	<b>93</b>	<b>Name</b> Free-form name	<b>AN 1/60</b>
Must Use	<b>N103</b>	<b>66</b>	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Customer	<b>ID 1/2</b>
Must Use	<b>N104</b>	<b>67</b>	<b>Identification Code</b> Code identifying a party or other code <i>Note: Supplier must return the value sent by SANM in SANM's outbound 830 N104 field for the Seller address.</i>	<b>AN 2/80</b>

N1~SE~XYZ Corporation~92~XYZ001{

**Segment:** **LIN** **Item Identification**  
**Position:** 010  
**Loop:** LIN Mandatory  
**Level:** Detail  
**X12 Usage:** Mandatory  
**Sanmina-SCI Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Syntax Notes:**

- 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.

**Semantic Notes:**

- 1 LIN01 is the line item identification

**Comments:**

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provides 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**

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	<b>LIN01</b>	<b>350</b>	<b>Assigned Identification</b> PO line Number (1)	<b>AN 1/20</b>
Must Use	<b>LIN02</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	<b>ID 2/2</b>
Must Use	<b>LIN03</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service Sanmina-SCI's Part Number <i>Note: Supplier must return the part number sent by SANM in SANM's outbound 830 LIN03 field.</i>	<b>AN 1/48</b>
	<b>LIN04</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) MG Manufacturer's Part Number	<b>ID 2/2</b>
	<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service Manufacturer's Part Number	<b>AN 1/48</b>
	<b>LIN06</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	<b>ID 2/2</b>
	<b>LIN07</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service Purchase Order Number	<b>AN 1/48</b>

LIN~~BP~9321-1006-T~MG~LT1121CS8~PO~B01291P9{

**Segment:** **SDP** Ship/Delivery Pattern  
**Position:** 450  
**Loop:** SDP  
**Level:** Detail  
**X12 Usage:** Optional  
**Sanmina-SCI 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, as required, 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**

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SDP01	678	<b>Ship/Delivery or Calendar Pattern Code</b> Code which specifies the routine shipments, deliveries, or calendar pattern Y None (Also Used to Cancel or Override a Previous Pattern)	<b>ID 1/2</b>
Must Use	SDP02	679	<b>Ship/Delivery Pattern Time Code</b> Code which specifies the time for routine shipments or deliveries Y None (Also Used to Cancel or Override a Previous Pattern)	<b>ID 1/1</b>

SDP~Y~Y {

**NOTES:**

- 1) Quantities will always be in weekly buckets.
- 2) Sanmina-SCI requests suppliers return confirmations for each of the first 13 weeks of the forecast, including weeks with zero forecast. Beyond 13 weeks, confirmations can be returned only for weeks with a planned quantity.
- 3) Suppliers should not include forecast response for firmed schedules received in the 830 document. A firm schedule, marked with a C in the 830 FST02 record, should only be responded to in Supplier's 855 document.

**Segment:** **FST Forecast Schedule**  
**Position:** 460  
**Loop:** SDP  
**Level:** Detail  
**X12 Usage:** Optional  
**Sanmina-SCI Usage:** Mandatory  
**Max Use:** 260  
**Purpose:** To specify the forecasted 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:**

- 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.

**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.

**Data Element Summary**

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>FST01</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>R 1/15</b>
Must Use	<b>FST02</b>	<b>680</b>	<b>Forecast Qualifier</b> Code specifying the sender's confidence level of the forecast data or an action associated with a forecast D Planning	<b>ID 1/1</b>
Must Use	<b>FST03</b>	<b>681</b>	<b>Forecast Timing Qualifier</b> Code specifying interval grouping of the forecast. W Monday of Weekly Bucket.	<b>ID 1/1</b>
Must Use	<b>FST04</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD	<b>DT 8/8</b>

FST~400~D~W~20110811 {



**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**X12 Usage:** Optional  
**Sanmina-SCI Usage:** Mandatory  
**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>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTT01	354	<b>Number of Line Items</b> Total number of line items in the transaction set	<b>N0 1/6</b>

CTT~2 {

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**Loop:**  
**Level:** Summary  
**X12 Usage:** Mandatory  
**Sanmina-SCI 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>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	<b>N0 1/10</b>
Must Use	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>AN 4/9</b>

SE~20~0008 {

**Example: 830 Planning Schedule Response (inbound to SANM)**

ISA~00~ ~00~ ~01~049046089 ~01~SANMINACORP  
~110811~1217~U~00401~000000007~0~P~>{  
GS~PS~007321904~SANMINACORP~20110811~1217~08~X~004010{  
ST~830~0008{  
BFR~11~XYZ001E34201110811684244818 ~DL~A~20110811~20120811~20110811{  
N1~SE~XYZ Corporation~92~XYZ001{  
LIN~~BP~9321-1006-T~MG~LT1121CS8~PO~B01291P9{  
SDP~Y~Y{  
FST~0~D~W~20110811{  
FST~0~D~W~20110818{  
FST~0~D~W~20110825{  
FST~0~D~W~20110901{  
FST~0~D~W~20110908{  
FST~0~D~W~20110915{  
FST~0~D~W~20110922{  
FST~0~D~W~20110929{  
FST~0~D~W~20111006{  
FST~0~D~W~20111013{  
FST~0~D~W~20111020{  
FST~0~D~W~20111027{  
FST~0~D~W~20111103{  
FST~25000~D~W~20120209{  
FST~55000~D~W~20120316{  
FST~30000~D~W~20120413{  
LIN~~BP~9300-1001-T~MG~L15121CS9~PO~P01283P9{  
SDP~Y~Y{  
FST~0~D~W~20110818{  
FST~0~D~W~20110825{  
FST~0~D~W~20110901{  
FST~0~D~W~20110908{  
FST~0~D~W~20110915{  
FST~500~D~W~20110922{  
FST~0~D~W~20110929{  
FST~0~D~W~20111006{  
FST~0~D~W~20111013{  
FST~652~D~W~20111020{  
FST~0~D~W~20111027{  
FST~0~D~W~20111103{  
FST~400~D~W~20111117{  
FST~492~D~W~20111222{  
CTT~2{  
SE~40~0008{  
GE~1~08{  
IEA~1~000000007{