

PLANNING SCHEDULE WITH RELEASE OUTBOUND

830E

VERSION

004010

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Version : 9

830 Planning Schedule with Release Capability

Functional Group ID= ${\bf PS}$

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:

Pos.	Seg.		X12	Sanmina-SCI		Loop	Notes and
No.	ID	Name	Reg.	Required	Max.Use	Repeat	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 Reg.	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
110.	ID	LOOP ID - LIN	Neq.	Kequireu	Max.Use	>1	Comments
010	LIN	Item Identification	M	Must Use	1		
020	UIT	Unit Detail	О	Must Use	1		
140	REF	Reference Identification	О		12		
150	PER	Administrative Communications Contact	О		3		
220	QTY	Quantity	O		>1		N1
		LOOP ID - SDP				260	
450	SDP	Ship/Delivery Pattern	О	Must Use	1		
460	FST	Forecast Schedule	O	Must Use	260		

Summary:

Pos.	Seg.		X12	Sanmina-SCI		Loop	Notes and
No.	ID	Name	Req.	Required	Max.Use	Repeat	Commentss
010	CTT	Transaction Totals	0	Must Use	1		N2
020	SE	Transaction Set Trailer	M	Must Use	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. 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

Sanmin a-SCI Require d	Ref. Desc.	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability	ID 3/3
Must Use	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	AN4/9

ST~830~0008{

Segment: \mathbf{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: Semantic Notes:

1 At least one of BFR02 or BFR03 is required.

1 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

(envelope) begins.4 BFR07 is the forecast horizon end date: The date when the forecast horizon

4 BFR07 is the forecast horizon end date: The date when the forecast horizo (envelope) ends.

5 BFR08 is the date forecast generated: The date the forecast data was generated.

Data Element Summary

Sanmina-	Ref.	Data	Name	<u>Attributes</u>
SCI	Desc.	Element		-
Required				
Must Use	BFR01	353	Transaction Set Purpose Code	ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
	BFR02	127	Reference Identification	AN 1/30
			Reference information as defined for a particular	
			Transaction Set or as specified by the Reference	
			Identification Qualifier	
			Identifying Number Assigned by Sanmina-SCI.	
Must Use	BFR04	675	Schedule Type Qualifier	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.	
Must Use	BFR05	676	Schedule Quantity Qualifier	ID 1/1
			Code identifying the type of quantities used when	
			defining a schedule or forecast	
			A Actual Discrete Quantities	
Must Use	BFR06	373	Date	DT 8/8
			Date expressed as CCYYMMDD	
			Forecast Start Date	
	BFR07	373	Date	DT 8/8
			Date expressed as CCYYMMDD	
			Forecast End Date	
Must Use	BFR08	373	Date	DT 8/8
			Date expressed as CCYYMMDD	
			Forecast Generated Date	

BFR~00~ABC123E2920110509678914381~~DL~A~20110509~20110509~20110509 9 {

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.

Use this URL for a complete list of ship to codes used by Sanmina-SCI:

Data Element Summary

Sanmina- SCI	<u>Ref.</u> <u>Desc.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Required				
Must Use	N101	98	Entity Identifier Code	ID 2/2
			Code identifying an organizational entity, a physical	
			location, property or an individual	
			BT Bill To	
			BY Buying Party (Purchaser)	
			ST Ship To	
			SE Selling Party	
Must Use	N102	93	Name	AN 1/60
			Free-form name	
Must Use	N103	66	Identification Code Qualifier	ID 1/2
			Code designating the system/method of code	
			structure used for Identification Code (67)	
			92 Assigned by Customer	
Must Use	N104	67	Identification Code	AN 2/80
			Code identifying a party or other code	
			DUNS Number when N101 is BY.	
			Sanmina-SCI's location code when N101 is BT or	
			ST.	
			Sanmina-SCI's supplier code for vendor when N101	
			is SE	

N1~BT~ACCOUNTS PAYABLE~92~NASSC-AP{
N1~BY~SANMINA-SCI CORPORATION~1~79-877-8395{
N1~ST~Sanmina-SCI Corporation~92~443417{
N1~SE~ABC Corporation~92~ABC123{

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.

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 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

Sanmina-	Ref.	<u>Data</u>	<u>Name</u>	Attributes
SCI Required	<u>Desc.</u>	<u>Element</u>		
	LIN01	350	Assigned Identification	AN 1/11
			PO line Number (1)	
Must Use	LIN02	235	Product/Service ID Qualifier	ID 2/2
			Code identifying the type/source of the descriptive	
			number used in Product/Service ID (234)	
			BP Buyer's Part Number	
Must Use	LIN03	234	Product/Service ID	AN 1/48
			Identifying number for a product or service	
			Sanmina-SCI's Part Number	
Must Use	LIN04	235	Product/Service ID Qualifier	ID 2/2
			Code identifying the type/source of the descriptive	
			number used in Product/Service ID (234)	
			MG Manufacturer's Part Number	
Must Use	LIN05	234	Product/Service ID	AN 1/48
			Identifying number for a product or service	
			Manufacturer's Part Number	
Must Use	LIN06	235	Product/Service ID Qualifier	ID 2/2
			Code identifying the type/source of the descriptive	
			number used in Product/Service ID (234)	
			PO Purchase Order Number	
Must Use	LIN07	234	Product/Service ID	AN 1/48
			Identifying number for a product or service	
			Purchase Order Number	

LIN~~BP~ LF12345-T~MG~74HC6789-T ~PO~B29123456{

Segment: UIT Unit Detail

Position: 020
Loop: LIN
Level: Detail
X12 Usage: Optional

Sanmina-SCI 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

Sanmina- SCI	Ref. Desc.	<u>Data</u> Element	<u>Name</u>	<u>Attributes</u>
Required	<u> Beset</u>	<u> </u>		
Must Use	UIT01	C001	Composite Unit of Measure	
Widst Osc	01101	C001	To identify a composite unit of measure (See	
			Figures Appendix for examples of use)	
		355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	ID 2/2
	UIT02	212	Unit Price Price per unit of product, service, commodity, etc.	R 1/17

UIT~EA~112.34{

REF Reference Numbers **Segment:**

Position: LIN Loop: Level: Detail X12 Usage: Optional Sanmina-SCI Usage: Optional

Max Use:

Purpose: To specify identifying numbers.

At least one of REF02 or REF03 is required. **Syntax Notes:**

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: Comments:

REF04 contains data relating to the value cited in REF02. 1

Data Element Summary

Sanmina- SCI Required	Ref. Desc.	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	ID 2/2
			Code qualifying the Reference Information	
			MF Manufacturer	
Must Use	REF02	127	Reference Number	AN 1/30
			Reference Number	

REF~MF~XYZ Corporation{

Note: If present, the REF segment contains the AVL information for the Sanmina-SCI Part Numbers.

Segment: PER Administrative Communications Contact

Position: 150
Loop: LIN
Level: Detail
X12 Usage: Optional
a-SCI Usage: Optional

Sanmina-SCI Usage: Op

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

	Ref.	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
Sanmina-	Desc.	Element		
SCI Required				
Must Use	PER01	366	Contact Function Code	ID 2/2
			Code identifying the major duty or responsibility of	
			the person or group named	
			BD Buyer Name or Department	
	PER02	93	Name	AN 1/60
			Free-form name	
			Sanmina-SCI's Contact Name	
	PER03	365	Communication Number Qualifier	ID 2/2
			Code identifying the type of communication	
			number	
			TE Telephone	
	PER04	364	Communication Number	AN 1/80
			Complete communications number including	
			country or area code when applicable	
			Sanmina-SCI Contact Telephone Number	
	PER05	365	Communication Number Qualifier	ID 2/2
			Code Identifying the type of communication	
			number	
			EM Email Address of the Buyer when PER01	
			is BD	
	PER06	364	Communication Number	AN 1/80
			Complete communications number	
			Email Address of the Buyer when PER01is BD	

PER~BD~Smith, John~TE~603-555-1854~EM~john.smith@sanmina-sci.com{

Segment: QTY Quantity

Position: 220 Loop: LIN Level: Detail X12 Usage: Optional

Sanmina-SCI Usage: Optional

Max Use: >1

Purpose: To specify quantity information

Syntax Notes: 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.

Comments:

Data Element Summary

	Ref.	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
Sanmina-	Desc.	Element		
<u>SCI</u>				
Required				
Must Use	QTY01	673	Quantity Qualifier	ID 2/2
			Code specifying the type of quantity	
			02 Cumulative Quantity	
Must Use	QTY02	380	Quantity	R 1/15
			Numeric value of quantity	
Must Use	QTY03	C001	Composite Unit of Measure	
			To identify a composite unit of measure (See	
			Figures Appendix for examples of use)	
	C00101	355	Unit or Basis for Measurement Code	ID 2/2
			Code specifying the units in which a value is being	
			expressed, or manner in which a measurement has	
			been taken	

Note: We will send only Discrete Quantities.

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:

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

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

FST Forecast Schedule **Segment:**

Position: Loop: **SDP** Level: Detail X12 Usage: Optional

Sanmina-SCI Usage: Mandatory

Max Use:

Purpose: To specify the forecasted dates and quantities

If either FST06 or FST07 is present, then the other is required. **Syntax Notes:**

If either FST08 or FST09 is present, then the other is required.

If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 **Semantic Notes:** 1

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.

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

Sanmina- SCI	Ref. Desc.	<u>Data</u> Element	<u>Name</u>	<u>Attributes</u>
Required				
Must Use	FST01	380	Quantity	R 1/15
			Numeric value of quantity	
Must Use	FST02	680	Forecast Qualifier	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	
Must Use	FST03	681	Forecast Timing Qualifier	ID 1/1
			Code specifying interval grouping of the forecast.	
			W Monday of Weekly Bucket.	
Must Use	FST04	373	Date	DT 8/8
			Date expressed as CCYYMMDD	

FST~100~D~W~20110813{

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

Sanmina- SCI	Ref. Desc.	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Required				
Must Use	CTT01	354	Number of Line Items	N0 1/6
			Total number of line items in the transaction set	

CTT~1{

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

	Ref.	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
Sanmina-	Desc.	Element		
<u>SCI</u>				
Required				
Must Use	SE01	96	Number of Included Segments	N0 1/6
			Total number of segments included in a	
			transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	AN 4/9
			Identifying control number that must be unique	
			within the transaction set functional group	
			assigned by the originator for a transaction set	

SE~20~0008{

Example: 830E Planning Schedule with Release

```
~00~
                               ~01~SANMINACORP ~01~012345678
ISA~00~
~110509~1217~U~00401~00000007~0~P~>{
GS~PS~SANMINACORP~12345678~20110509~1217~08~X~004010{
ST~830~0008{
BFR~00~ABC123E2920110509678914381~~DL~A~20110509~20120509~2011050
9 {
N1~BT~ACCOUNTS PAYABLE~92~NASSC-AP{
N1~BY~SANMINA-SCI CORPORATION~1~79-877-8395{
N1~ST~Sanmina-SCI Corporation~92~443417{
N1~SE~ABC Corporation~92~ABC123{
LIN~~BP~ LF12345-T~MG~74HC6789-T ~PO~B29123456{
UIT~EA{
CUR~BY~USD{
PER~BD~Smith, John~TE~603-555-1854~EM~john.smith@sanmina-sci.com{
QTY~01~3400~EA{
SDP~Y~Y{
FST~100~C~W~20110509{
FST~200~D~W~20110516{
FST~600~D~W~20110523{
FST~600~D~W~20110530{
FST~700~D~W~20110606{
FST~600~D~W~20110613{
FST~600~D~W~20110620{
LIN~~BP~9999-1111-T~MG~L44444CS4~PO~B29456789{
UIT~EA{
CUR~BY~USD{
PER~BD~Smith, John~TE~603-555-1854~EM~john.smith@sanmina-sci.com{
QTY~01~3300~EA{
SDP~Y~Y{
FST~200~D~W~20110509{
FST~600~D~W~20110516{
FST~600~D~W~20110523{
FST~700~D~W~20110530{
FST~600~D~W~20110606{
FST~600~D~W~20110613{
CTT~1{
SE~33~0008{
GE~1~08{
IEA~1~00000007{
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