NIfCO LLC

Electronic Data Interchange

Transaction Set

830

Planning Schedule with Release Capability

Functional Group ID = PS
X12 Version 004 Release 010

February 2003

Revision History

Date	Description
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Introduction

This section provides the necessary information to enable trading partners to utilize the ASC X12 standards for the exchange of electronic business documents with Nifco.

Hyperlinks in this document

This document contains hyperlinks to pages .

Inbound Document Key

The following key provides a reference for interpreting the layout of this document. If you have any questions regarding the information or content provided, please contact NIFCO EDI Services via email at

ST - Transaction Set Header [1]

Field #	Elem.	Field Name	Type	Size	NIFCO Usage
ST01[2]	143[3]	Transaction[4] Set ID	ID[5]	3[6]	830[7]

Example[8]: ST*830*211040004

1. Segment Identifier and Name
2. Data Element Reference Designator
3. Data Element Reference Number
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5. Data Element Type
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830 Planning Schedule with Release Capability

Functional Group ID=PS

Introduction:

This manual 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. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
			LOOP ID - N1			200	
	230	N1	Name	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
M	010	LIN	Item Identification	M	1		
	020	UIT	Unit Detail	O	1		
	230	ATH	Resource Authorization	O	20		
			LOOP ID - FST			>1	
	410	FST	Forecast Schedule	O	1		n2
			LOOP ID - SHP			25	
	470	SHP	Shipped/Received Information	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	010	CTT	Transaction Totals	O	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 occurrence 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.

Segment: ISA Interchange Control Header

Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Syntax Notes:
Semantic Notes:
Comments:
Notes: EXAMPLE:

ISA*00* *00* *12*6148363808 *01*001084672
*030227*1733*U*00400*000000110*0*P*~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information NIFCO usage: 00 = No authorization information present Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA02**	**I02**	**Authorization Information** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) NIFCO usage is blanks.	**M AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code to identify the type of information in the Security Information NIFCO usage: 00 = No authorization information present Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA04**	**I04**	**Security Information** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) NIFCO usage: Blank spaces	**M AN 10/10**
M	**ISA05**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified NIFCO usage: 12 (Nifco Main Phone Number). Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**ISA06**	**I06**	**Interchange Sender ID** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	**M AN 15/15**

			NIFCO usage: 6148363808 (Nifco Main Phone Number)		
M	**ISA07**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified NIFCO usage is defined by NIFCO's trading partner. Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 2/2**
M	**ISA08**	**I07**	**Interchange Receiver ID** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them NIFCO usage is defined by our trading partner.	**M**	**AN 15/15**
M	**ISA09**	**I08**	**Interchange Date** Date of the interchange NIFCO usage is the standard YYMMDD.	**M**	**DT 6/6**
M	**ISA10**	**I09**	**Interchange Time** Time of the interchange NIFCO usage is 4 digits HHMM.	**M**	**TM 4/4**
M	**ISA11**	**I10**	**Interchange Control Standards Identifier** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer NIFCO usage: U for US EDI Community of ASC X12, TDCC and UCS. Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 1/1**
M	**ISA12**	**I11**	**Interchange Control Version Number** This version number covers the interchange control segments NIFCO usage: 00400 - first release version of standard version 004010. Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 5/5**
M	**ISA13**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender NIFCO usage is a unique reference number maintained by NIFCO .	**M**	**N0 9/9**
M	**ISA14**	**I13**	**Acknowledgment Requested** Code sent by the sender to request an interchange acknowledgment (TA1) NIFCO usage: 0 = No Acknowledgement Requested 1 = Interchange Acknowledgement Requested Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 1/1**
M	**ISA15**	**I14**	**Usage Indicator** Code to indicate whether data enclosed by this interchange envelope is test, production or information NIFCO usage: P = Produciton Data T = Test Data NOTE: NIFCO sends this to the partners specification but does not use it internally.	**M**	**ID 1/1**
M	**ISA16**	**I15**	**Component Element Separator** Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator NIFCO usage is as mutually defined by NIFCO and the trading partner.	**M**	**AN 1/1**

Segment: **GS** **Functional Group Header**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Syntax Notes:
Semantic Notes:
1 GS04 is the group date.
2 GS05 is the group time.
3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
Comments:
1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.
Notes: EXAMPLE:

```
GS*PS*6148363808*001084672*20030227*1733*110*X*004010~
```

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets NIFCO usage is PS, Planning Schedule with Release Capabilty (830). Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners NIFCO uses a defined code to route files internal to NIFCO. A full set of the codes is available in the "Forecast ID" document. DO NOT HARDCODE as these values change with no prior notification.	**M AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners This field is the same as the ISA08 unless otherwise agreed upon with the trading partner.	**M AN 2/15**
M	**GS04**	**373**	**Date** Date expressed as CCYYMMDD	**M DT 8/8**
M	**GS05**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) NIFCO usage is 4 digits, HHMM.	**M TM 4/8**
M	**GS06**	**28**	**Group Control Number** Assigned number originated and maintained by the sender This is a unique NIFCO maintained control number.	**M N0 1/9**
M	**GS07**	**455**	**Responsible Agency Code** Code used in conjunction with Data Element 480 to identify the issuer of the standard NIFCO usage: X, ASC X12 Committee. Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 1/2**

M	**GS08**	**480**	**Version / Release / Industry Identifier Code** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed NIFCO usage: Usage is 004010, Draft Standard as approved for Release in October, 1997. Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**AN 1/12**

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:
Notes: EXAMPLE:

ST*830*0025

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	**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 The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction.	**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:
Notes: EXAMPLE:

BFR*00*0000001**DL*A*20010201*20010201*20010201***4500999999

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BFR01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set NIFCO usage: 00 Original	**M ID 2/2**
	BFR03	**328**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction This field is optional at the header level. NIFCO places the purchase order release number in the LIN segment element 234 at the line item level.	**X AN 1/30**
M	**BFR04**	**675**	**Schedule Type Qualifier** Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast NIFCO usage: DL DeliveryBased	**M ID 2/2**
M	**BFR05**	**676**	**Schedule Quantity Qualifier** Code identifying the type of quantities used when defining a schedule or forecast NIFCO usage: A Actual Discrete Quantities	**M ID 1/1**

M	**BFR06**	**373**	**Date** Date expressed as CCYYMMDD NIFCO usage Horizon Start Date	**M**	**DT 8/8**
	BFR07	**373**	**Date** Date expressed as CCYYMMDD NIFCO usage Horizon End Date	**O**	**DT 8/8**
M	**BFR08**	**373**	**Date** Date expressed as CCYYMMDD NIFCO usage Generation Date	**M**	**DT 8/8**

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.
Notes: EXAMPLE:

```
N1*ST**1*6148363808~
```

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual NIFCO usage ST = Ship To Free-form name	**M**	**ID 2/3**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) NIFCO usage 12 Nifco Main Phone Number	**X**	**ID 1/2**
	N104	**67**	**Identification Code** NIFCO usage Nifco Main Phone Number	**X**	**AN 2/80**

Segment: **LIN** **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 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.
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.
Notes: EXAMPLE:

```
LIN**BP*04407*PO*823403*ZZ*0~
```

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
			Alphanumeric characters assigned for differentiation within a transaction set		
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) NIFCO usage BP Buyer's Part Number	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** NIFCO usage: NIFCO assigned part number.	**M**	**AN 1/48**
	LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) NIFCO usage PO Purchase Order Number Qualifier	**X**	**ID 2/2**
	LIN05	**234**	**Product/Service ID** NIFCO usage NIFCO's Purchase Order Number	**X**	**AN 1/48**
	LIN06	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)
NIFCO usage
ZZ Mutually Defined

LIN07	**234**	**Product/Service ID** Identifying number for a product or service Code identifying the type/source of the descriptive number used in Product/Service ID (234) NIFCO usage Purchase Order Release Revision Number	**X**	**AN 1/48**

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:
Notes: EXAMPLE:

UIT*EA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**UIT01**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**M**
M	**C00101**	**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 NIFCO usage EA Each Power to which a unit is raised	**M ID 2/2**

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.
Notes: EXAMPLE:

ATH*FI*20030301*00*20030301~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ATH01**	**672**	**Resource Authorization Code** Code identifying the resource which the buyer is authorizing the selller to commit to NIFCO usage FI Finished (Labor, Material and Overhead/Burden) Material	**M**	**ID 2/2**
	ATH02	**373**	**Date** NIFCO usage Resource Date	**X**	**DT 8/8**
	ATH03	**380**	**Quantity** NIFCO usage Finished Cum	**X**	**R 1/15**
	ATH05	**373**	**Date** Date expressed as CCYYMMDD NIFCO usage Cumulative Start Date	**X**	**DT 8/8**

Segment: **FST** **Forecast Schedule**

Position: 410
Loop: FST Optional
Level: Detail
Usage: Optional
Max Use: 1
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.
2 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.
3 This is a 13 week bucket

Notes:

EXAMPLE:

```
FST*60*C*W*20030224~
```

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**FST01**	**380**	**Quantity** Numeric value of quantity NIFCO usage Forecast Quantity	**M R 1/15**
M	**FST02**	**680**	**Forecast Qualifier** Code specifying the sender's confidence level of the forecast data or an action associated with a forecast NIFCO usage C Firm	**M ID 1/1**
M	**FST03**	**681**	**Forecast Timing Qualifier** Code specifying interval grouping of the forecast NIFCO usage W Weekly Buck (Monday through Saturday)	**M ID 1/1**
M	**FST04**	**373**	**Date** Date expressed as CCYYMMDD NIFCO usage Starting Date	**M DT 8/8**

Segment: **SHP** **Shipped/Received Information**

Position: 470
Loop: SHP Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify shipment and/or receipt information
Syntax Notes:
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.
Semantic Notes:
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.
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 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
Notes: EXAMPLE:

```
SHP*01*0*011*20030102~
```

.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
SHP01	**673**	**Quantity Qualifier** Code specifying the type of quantity NIFCO usage 01 Discreet Quantity	**O**	**ID 2/2**
SHP02	**380**	**Quantity** NIFCO usage Release Quantity	**X**	**R 1/15**
SHP03	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time NIFCO usage 011 Shipped	**X**	**ID 3/3**
SHP04	**373**	**Date** Date expressed as CCYYYMMDD NIFCO usage Last Receipt Date	**X**	**DT 8/8**

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.
Notes: EXAMPLE:

CTT*1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set	**M N0 1/6**

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

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**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: GE Functional Group Trailer

Position: 025
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Syntax Notes:
Semantic Notes: **1** The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Comments: **1** The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.
Notes: EXAMPLE:

GE*1*535

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GE01**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element NIFCO usage is the number of Transaction Sets in the Interchange Group.	**M N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender NIFCO usage is the GS06, Group Control Number.	**M N0 1/9**

Segment: IEA Interchange Control Trailer

Position: 030
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Syntax Notes:
Semantic Notes:
Comments:
Notes: EXAMPLE:

IEA*1*000005340

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**IEA01**	**I16**	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange NIFCO usage is the number of Function Groups in the transmission.	**M N0 1/5**
M	**IEA02**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender NIFCO usage is the ISA13, Interchange Control Number.	**M N0 9/9**

ASC X12 004010 Sample Document

Typical sample, other options are possible. Variable date bucketing and non-zero quantity buckets are most likely.

Forecast

```
ISA*00*          *00*          *12*6148363808      *01*001084672
*030227*1733*U*00400*000000110*0*P*~
GS*PS*6148363808*001084672*20030227*1733*110*X*004010~
ST*830*0001~
BFR*00**823403*DL*A*20030224*20030525*20030227~
N1*ST**1*6148363808~
```

LIN*00100*BP*04405*PO*823403*ZZ*0	(Day 1)	***Daily***
UIT*EA		***Quantities***
FST*0*D*W*20030205		
LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Day 2)	
UIT*EA		
FST*0*D*W*20030206		
LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Day 3)	
UIT*EA		
FST*0*D*W*20030207		
LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Day 4)	
UIT*EA		
FST*0*D*W*20030208		
LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Day 5)	
UIT*EA		
FST*0*D*W*20030209		
LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Day 6)	
UIT*EA		
FST*0*D*W*20030210		
LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Day 7)	
UIT*EA		
FST*0*D*W*20030211		

LIN*1*BP*107315-001*EC*AA*VP*107315-001	(Week 2)	***Weekly***
UIT*EA		***Quantities***
FST*0*D*W*20030212		

LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 3)
UIT*EA
FST*9408*D*W*20030219
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 4)
UIT*EA
FST*0*D*W*20030226
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 5)
UIT*EA
FST*0*D*W*20030305
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 6)
UIT*EA
FST*0*D*W*20030312
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 7)
UIT*EA
FST*0*D*W*20030319
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 8)
UIT*EA
FST*0*D*W*20030326
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 9)
UIT*EA
FST*0*D*W*20030402
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 10)
UIT*EA
FST*0*D*W*20030409
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 11)
UIT*EA
FST*0*D*W*20030416
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 12)
UIT*EA
FST*616*D*W*20030423
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 13)
UIT*EA
FST*2142*D*W*20030430
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 14)

UIT*EA
FST*1836*D*W*20030507
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 15)
UIT*EA
FST*1550*D*W*20030514
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 16)
UIT*EA
FST*1128*D*W*20030521
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Week 17)
UIT*EA
FST*1141*D*W*20030528

LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 5) ***Monthly***
UIT*EA ***Planning***
FST*1956*D*M*20030604
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 6)
UIT*EA
FST*1643*D*M*20030701
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 7)
UIT*EA
FST*0*D*M*20030801
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 8)
UIT*EA
FST*0*D*M*20030901
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 9)
UIT*EA
FST*0*D*M*20031001
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 10)
UIT*EA
FST*0*D*M*20031101
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 11)
UIT*EA
FST*0*D*M*20031201
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 12)
UIT*EA

FST*0*D*M*20020101
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 13)
UIT*EA
FST*0*D*M*20020201
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 14)
UIT*EA
FST*0*D*M*20020301
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 15)
UIT*EA
FST*0*D*M*20020401
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 16)
UIT*EA
FST*0*D*M*20020501
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 17)
UIT*EA
FST*0*D*M*20020601
LIN*1*BP*107315-001*EC*AA*VP*107315-001 (Month 18)
UIT*EA
FST*0*D*M*20020701

CTT*37
SE*117*0025
GE*1*535
IEA*1*000005340