



LEAR[®]
C O R P O R A T I O N

Implementation Guidelines

Material Release
X12 - 830 v.004010

January 24, 2012

Document Change Log

Version	Date	Description
		Draft
1.00	2007.05.30	Document issued.
1.01	2008.04.24	<ul style="list-style-type: none">• Added Interchange Control Structures;• Added supplier part number (LIN);• Changed code FST03-Forecast Timing Qualifier

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830 Planning Schedule with Release Capability

Functional Group ID=PS

1. INTRODUCTION:

This Draft Standard for Trial Use 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.

Notes:

BPN: 830 Business process narrative - LEAR as the customer

General: The transaction is used to send information on a Blanket PO Release or on a Scheduling Agreement Release to a supplier to communicate the part numbers, due dates and associated quantities needed by the customer location. There is normally a paper copy of the Blanket Order Agreement or the Scheduling Agreement that has been sent prior to this 830 Release transaction. The agreement establishes the terms of the relationship and communicates much of the repetitive, standard information that both parties require. Since the customer has previously had communication with the supplier to set up pricing, item description information, contact information, etc that does not change with each release of requirements, this type data is not contained in the subsequent 830 releases.

LEAR sends only one accumulated quantity, the total receipted quantity for the item since the beginning of the blanket order or scheduling agreement. LEAR units might continue to order the same material(s) on the same order number for the life of the part number. This situation may result in a receipt quantity accumulated over multiple years.

The delivery dates and quantities contain an indicator for the supplier to use in order to determine if the delivery date is only a forecasted quantity or if it is in fact a quantity which is committed and may be delivered based on the agreed window around the due date.

2. SEGMENT TABLE

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
4	020	BFR	Beginning Segment for Planning Schedule	M	1		
LOOP ID α N1						200	
5	230	N1	Name	O	1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des	Max.Use	Loop Repeat	Notes and Comments
LOOP ID α LIN						>1	
6	010	LIN	Item Identification	M	1		
7	020	UIT	Unit Detail	R	1		
8	0150	PER	Administrative Communications Contact	O	1		
LOOP ID SDP						260	
9	450	SDP	Ship/Delivery Patt	M	1		
LOOP ID LP						260	
10	460	FST	Forecast Schedule	R	1		
LOOP ID α SHP						25	
11	470	SHP	Shipped/Received Information	M	1		
12	480	REF	Reference Identification	O	5		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des	Max.Use	Loop Repeat	Notes and Comments
13	010	CTT	Transaction Totals	O	1		
14	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. 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.
2. 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.

3. DATA SEGMENT DESCRIPTION

Segment: **ISA Interchange Control Header**
 Positi 010
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1

Purpose: To start and identify an interchange of zero or more functional groups and interchange related control segments

Syntax Notes: 1 The interchange control headers set the actual values of the data element separator, sub element separator, and the data segment terminator for this interchange. It is expected that these values be read dynamically by an EDI translator and are defined here for informational purposes only. In the segment diagram below the:

- Data element separator is represented by the —*“ character (ASCII Hex ”2A“, Decimal ”42“);
- Sub Element Separator is represented by the —<“ (ASCII Hex ”3C“, Decimal ”60“);
- Segment Terminator appears graphically as a — ~ “ or a small box (ASCII Hex ”7E“, Decimal ”126“).

The values are used consistently from the header through the interchange trailer.

Notes: SA*00* *00* *ZZ*XXX *ZZ*YYY
 *070410*1731*U*00401*000000051*0*T*<

Data Element Summary

Ref.	Data		Att butes
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M ISA01	I01	Authorization Information Qualifi Code to identify the type of information in the Authorization Information. ”00“ No authorization information presente (no meaningful information in I02).	ID 2/2
M ISA02	I02	Authorization Informati Information used for additional identification or authorization of the interchange sender or the data in interchange; the type of information is set by the authorization information qualifier. Use 10 spaces	AN 10/10

M	ISA03	I03	Security Information Qualifi "00" No security information present (no meaningful information in I04).	ID 2/2
M	ISA04	I04	Security Informati 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. Use 10 spaces	AN 10/10
M	ISA05	I05	Interchange ID Qualifi Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element qualified. "ZZ" Mutually Defined	ID 2/2
M	ISA06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the sender ID to route data to them; the sender always codes this value in the sender ID element	ID 1/15
M	ISA07	I05	Interchange ID Qualifi Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element qualified. "ZZ" Mutually Defined	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.	ID 1/15
M	ISA09	I08	Interchange Date Date of the interchange Format: "YYMMDD"	DT 6/6
M	ISA10	I09	Interchange Time Time of the interchange Format: "HHMM" = 24 hour clock	TM 4/4
M	ISA11	I10	Interchange Control Standards Identifi	ID 1/1

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.

”U” U.S. EDI Community of ASC X12, TDCC, and UCS

M	ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments. ”00401” U.S. EDI Community of ASC X12, TDCC, and UCS	ID 5/5
M	ISA13	I12	Interchange Control Number Unique number assigned to control transmission, also used in IEA02 segment.	NO 9/9
M	ISA14	I13	Acknowledgment Request Code sent by the sender to request an interchange acknowledgment. ”0” No Acknowledgment Request	ID 1/1
M	ISA15	I14	Test Indicator Code to indicate whether data enclosed by this interchange envelope is test, production or information. ”P” Production ”T” Test	ID 1/1
O	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. Use —<“(ASCII Hex ”3C” Decimal ”60”.	ID 1/1

Segment: **GS** Functional Group Header
 Positi 020
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the beginning of a functional group and to provide control information
 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: GS*PS*XXX*YYY*20070509*1731*00051*X*004010

Data Element Summary

Ref.	Data			<u>Att butes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>		
M GS01	479	Functional Identifier Code	Code identifying a group of application related transaction sets.	ID 2/2
M GE02	142	Application Sender's Code	Code identifying party sending transmission; codes agreed to by trading partners.	AN 2/15
M GE03	124	Application Receiver's Code	Code identifying party receiving transmission. Codes agreed to by trading partners.	AN 2/15
M GE04	373	Date	Date expressed as CCYYMMDD. Transmission date use.	AN 8/8
M GE05	337	Time	Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS. Transmission time 24 hour clock use.	AN 4/8
M GE06	28	Group Control Number	Assigned number originated and maintained by the sender.	NO 1/9
M GE07	455	Responsible Agency Code		ID 1/2

Code used in conjunction with Data Element 480 to identify the issuer of the standard.
 'X' Accredited Standards Committee X12

M	GE08	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	AN 1/12
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Segment: **ST** Transaction Set Header
 Positi 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:
 Notes **ST*830*000788000**

Data Element Summary

Ref.	Data		<u>Attributes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M ST01	143	Transaction Set Identifier	M ID 3/3
		Code uniquely identifying a Transaction Set	
		830 Planning Schedule	
M ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction setfunctional group assigned by the originator for a transaction set	

Segment: **BFR** Beginning Segment for Planning Schedule
 Positi 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.
 Notes: BFR*00**000788000*DL*A***20070410

Data Element Summary

Ref.	Data	<u>Attributes</u>	
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M	BFR01	353	M ID 2/2
		Transaction Set Purpose Code	
		Code identifying purpose of transaction set	
		00 Original	
M	BFR03	328	R AN 1/30
		Release Number	
		Number identifying a release against	
		Purchase Order previously placed by the	
		parties involved in the transaction	
		LEAR Program Number	
	BFR04	675	C ID 2/2
		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	BFR05	676	M ID 1/1
		Schedule Quantity Qualifier	
		Code identifying the type of quantities used	
		when defining a schedule or forecast.	
		A Actual Discrete Quantities	
M	BFR08	373	M DT 8/8
		Date	
		Date (CCYYMMDD)	
		Date Release Generation	

Segment: **N1** Name
 Positi 230
 Loop: N1 Optional Max Use: 200
 Level: Heading
 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..
 Notes

```
N1*ST**92*20
N1*Sf**92*00000000015289
```

Data Element Summary

Ref.	Data		<u>Attributes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M N101	98	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		SF Ship From	
		ST Ship To	
M N103	66	Identification Code Qualifier	M ID 1/2
		Code designating the system/method of code structure used for Identification Code	
		92 Assigned by Buyer or Buyer's Agent	
M N104	67	Identification Code	M AN 5/5
		Code identifying a party or other code	

Segment: **LIN** Item Identification
 Positi 010
 Loop: LIN Mandatory Max Use: >1
 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
 Notes: LIN**BP*AR70022*PO*049353*VP*L0057207AA01

Data Element Summary

Ref.	Data	Attributes	
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M	LIN02	235	M ID 2/2
		Product/Service ID Qualifier	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		BP Buyer's Part Number	
M	LIN03	234	M AN 1/30
		Product/Service ID	
		Identifying number for a product or service	
		LEAR Part Number	
	LIN04	235	O ID 2/2
		Product/Service ID Qualifier	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		PO Purchase Order Number	
	LIN05	234	C AN 1/30
		Product/Service ID	
		Identifying number for a product or service	
		LEAR Purchase Order Number	
	LIN06	235	O ID 2/2
		Product/Service ID Qualifier	
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		VP Vendor's (Seller's) Part Number	
	LIN07	234	C AN 1/30
		Product/Service ID	
		Identifying number for a product or service	
		Supplier Part Number	

Segment: **UIT** Unit Detail
 Positi 020
 Loop: LIN Mandatory Max Use: >1
 Level: Detail
 Usage: Mandatory
 Max Use: 1
 Purpose: To specify item unit data
 Syntax Notes:
 Notes: UIT*PC

Data Element Summary

Ref.	Data			Attributes
<u>Des</u>	<u>Element</u>	<u>Name</u>		
M	UIT01	C001	Composite Unit of Measure To identify a composite unit of measure	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	M ID 2/2

Segment: **PER** Administrative Communication Contact
 Positi 150
 Loop: LIN Mandatory Max Use: >1
 Level: Detail
 Usage: Optional
 Max Use: 1
 Purpose: To identify a person or office to whom administrative communications should be direct

Syntax Notes:

Notes PER*SC*G. PACHANO

Data Element Summary

Ref.	Data		<u>Attributes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
PER01	366	Contact Function Code Code identifying the major or responsibility of the person or grupo named SC Schedule Contact	O ID 2/2
PER02	93	Name Name of contact, office or location	C AN 1/35

Segment: **SDP** AShip/Delivery Pattern
 Positi 450
 Loop: LIN Mandatory Max Use: >1
 Level: Detail
 Usage: Optional
 Max Use: 1
 Purpose: To identify specific ship/delivery requirements
 Syntax Notes:
 Notes: SDP*Z*Z

Data Element Summary

Ref.	Data		Attributes
<u>Des</u>	<u>Element</u>	<u>Name</u>	
SDP01	678	Ship/Delivery or Calendar Pattern Code Code which specifies the routine shipment, deliveries, or calendar pattern Z Mutually Defined	O ID 1/2
SDP02	679	Ship/Delivery Pattern Time Code Code which specifies the time for routine shipment or deliveries Z Mutually Defined	O ID 1/1

Segment: **FST** Forecast Schedule
 Positi 460
 Loop: LP Optional Max Use: 260
 Level: Detail
 Usage: Mandatory
 Max Use: 1
 Purpose: To specify the forecasted dates and quantities
 Syntax Notes:
 Notes: FST*350****20070417

Data Element Summary

Ref.	Data		<u>Attributes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M	FST01	380	Quantity M R 1/15
			Numeric value of quantity
	FST02	680	Forecast Qualifier O ID 1/1
			Code specifying the sender's onfidence level of the forecast data or an action associated with a forecast
		D	Planning
	FST03	681	Forecast Timing Qualifier O ID 1/1
			Code specifying interval grouping of the forecast
		D	Discrete
M	FST04	373	Forecast Date M DT 8/8
			Date (CCYYMMDD)

Segment: **SHP** Shipped/Received Information
 Positi: 470
 Loop: SHP Optional Max Use: 25
 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 is required
 Notes: SHP*01*840*050*20070328
 SHP*02*8100

Data Element Summary			
Ref.	Data		<u>Attributes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
SHP01	673	Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative Quantity	O ID 2/2
SHP02	380	Quantity Numeric value of quantity	C R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 050 Received	C ID 3/3
SHP04	373	Date Date (CCYYMMDD)	C DT 8/8

Segment: **REF** Reference Identification
 Positi 480
 Loop: REF Optional Max Use: 5
 Level: Detail
 Usage: Optional
 Max Use: 1
 Purpose: To specify the number of the Last Invoice.
 Syntax Notes: 1 At least one of REF02 or REF03 is required.
 Notes: REF*SI*39009

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des</u>	<u>Element</u> <u>Name</u>	
REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment A unique number (to the shipper) assigned by the shipper to identify the shipment	M ID 2/3
REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30

Segment: **CTT** Transaction Totals
 Positi 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:
 Notes **CTT*2**

Data Element Summary

Ref.	Data		<u>Attributes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
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
 Positi 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:
 Notes SE*30*0001

Data Element Summary

Ref.	Data		<u>Attributes</u>	
<u>Des</u>	<u>Element</u>	<u>Name</u>		
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
	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	O AN 4/9

Segment: **GE** Functional Group Trailer
 Positi 030
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the end of a functional group and to provide control information
 Syntax Notes:
 Notes: GE*001178*00035

Data Element Summary

Ref.	Data		<u>Att butes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
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 Total number of ST/SE pairs between the GS and GE.	N0 1/6
M GE02	28	Group Control Number Assigned number originated and maintained by the sender Sender assigned control number must match the GS06.	N0 1/9

Segment: **IEA** Interchange Control Trailer
 Positi 040
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments.
 Syntax Notes:

Notes: IEA*1*000001178

Data Element Summary

Ref.	Data		<u>Att butes</u>
<u>Des</u>	<u>Element</u>	<u>Name</u>	
M IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange(transmission). "Total number of GS/GE pairs between the ISA and this IEA.	N0 1/5
M IEA02	I12	Interchange Control Number Unique number assigned to control transmission, also used in ISA13 segment.	N0 9/9

4. EXAMPLE OF MESSAGE

Based on AIAG Implementation Guideline - Version 4010 Sample EDI Transmission

```
ISA*00*          *00*          *ZZ*XXX          *ZZ*YYY          *070410*1731*U*00401*000000051*0*T*
GS*PS*XXX*YYY*20070509*1731*00051*X*004010~
ST*830*000788000~
BFR*00**000788000*DL*A***20070410~
N1*ST**Q2*20~
N1*SF**Q2*00000000015289~
LIN**BP*AR70022*PO* 049353~
UIT*PC~
PER*SC*G. PACHANO~
SDP*Z*Z~
FST*350***20070417~
FST*700***20070425~
FST*350***20070503~
FST*350***20070510~
FST*700***20070517~
FST*350***20070524~
FST*700***20070531~
FST*350***20070607~
SHP*01*840*050*20070328~
SHP*02*8100~
REF*SI*39009~
SHP*02*5470~
LIN**BP*AR70024*PO* 049355~
UIT*PC~
PER*SC*G. PACHANO~
SDP*Z*Z~
FST*1000***20070713~
FST*1000***20070813~
SHP*01*1280*050*20070326~
SHP*02*3184~
REF*SI*39055~
SHP*02*8856~
CTT*2~
SE*30*0001~
GE*001178*00035~
IEA*1*000001178~
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