

Plex Systems

IMPLEMENTATION GUIDELINES FOR ANSI X12 EDI CONVENTIONS

830 TRANSACTION SET MATERIAL RELEASE Version 004010 Revised January 15, 2019

830 Material Release

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:

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
	130	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			200	
M	230	N1	Name	M	1		
M	250	N3	Address Information	M	2		
M	260	N4	Geographic Location	M	1		
	280	PER	Administrative Communications Contact	O	2		

Detail:

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
			LOOP ID - LIN			>1	
M	010	LIN	Item Identification	M	1		
	020	UIT	Unit Detail	O	1		
	080	PID	Product/Item Description	O	1000		
	150	PER	Administrative Communications Contact	O	3		
	230	ATH	Resource Authorization	O	20		
	678	SDP	Ship/Delivery Pattern	M	1		
			LOOP ID - FST			>1	
	410	FST	Forecast Schedule	0	1		n1
			LOOP ID - SHP			25	

470 SHP Shipped/Received Information	О	1	
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Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	<u>ID</u>	<u>Name</u>	Des.	Max.Use	Repeat	Comments
M	010	CTT	Transaction Totals	M	1		n2
M	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.
- 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.

Revision History	
Date	Change
01/15/2019	Added CTT02 option

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

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:

Ref. <u>Des.</u> ST01	Data <u>Element</u> 143	<u>Name</u> Transaction	Set Identifier Code	Attı M	ributes ID 3/3
		Code unique	ly identifying a Transaction Set		
		830	Planning Schedule with Release Capa	bility	
ST02	329	Transaction	Set Control Number	\mathbf{M}	AN 4/9
			ontrol number that must be unique within the oup assigned by the originator for a transaction		ion set

Segment: \mathbf{BFR} Beginning Segment for Planning Schedule

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

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 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:

Data Element Summary

	5			ributes
Ref.	Data	Nama	AN	SI
<u>Des.</u> BFR01	Element 353	Name Transaction Set Purpose Code	М	ID 2/2
DI KUI	333		IVI	11) 2/2
		Code identifying purpose of transaction set		
		05 Replace		
BFR02	127	Reference Identification	X	AN 1/30
		Reference information as defined for a particular Transaction	on Set	or as specified
		by the Reference Identification Qualifier		
		If a release number is not used this field is mandatory - eith must be used	er BFF	R02 or BFR03
BFR03	328	Release Number	X	AN 1/30
		Number identifying a release against a Purchase Order prev parties involved in the transaction	viously	placed by the
		If a Reference ID is not used this field is mandatory - either must be used	r BPR0	2 or BPR03
BFR04	675	Schedule Type Qualifier	M	ID 2/2
		Code identifying the type of dates used when defining a shi time in a schedule or forecast	ipping	or delivery
		DL Delivery Based		
		SH Shipment Based		
BFR05	676	Schedule Quantity Qualifier	M	ID 1/1
		Code identifying the type of quantities used when defining	a sched	dule or
		forecast		
		A Actual Discrete Quantities		
		C Cumulative Quantities		
BFR06	373	Date	M	DT 8/8
		Date expressed as CCYYMMDD		

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		Forecast start date		
BFR07	373	Date	M	DT 8/8
		Date expressed as CCYYMMDD		
		Ending forecast date		
BFR08	373	Date	M	DT 8/8
		Date expressed as CCYYMMDD		
		Forecast generation date		
BFR09	373	Date	O	DT 8/8
		Date forecast updated		
BFR11	324	Purchase Order Number Purchase order	0	AN 1/22

Segment: DTM Date/Time Reference

Position: 130

Loop:

Level: Heading Usage: Optional Max Use: 10

Purpose: T

To specify identifying information

Syntax Notes: Semantic Notes: Comments:

		Dutu Ei	cinem summary	
Ref.	Data			Attributes ANSI
Des.	Element	<u>Name</u>		
DTM01	374	Date/Time Qua	lifier	M ID 3/3
		Date Code		
		168	Release	
DTM02	373	Date		X DT 8/8
		CCCCMMDD		
DTM03	337	Time		X TM 6/6
		HHMMSS		

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.

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

		Duta Lici	icht Summary			
Ref.	Data			Attr AN	ribut SI	es
Des.	Element	Name				
N101	98	Entity Identifier (Code	M	ID	4/4
		Code identifying an individual	n organizational entity, a physical location	n, proj	perty	or an
		MI	Planning Schedule/Material Release Iss	suer		
		ST	Ship To			
		SU	Supplier/Manufacturer			
		SF	Ship From			
N102	93	Name		X	AN	1/60
		Free-form name				
N103	66	Identification Cod	le Qualifier	X	ID	1/2
		Code designating to Code (67)	he system/method of code structure used	for Id	entifi	cation
		1	D-U-N-S Number, Dun & Bradstreet			
		92	Assigned by Buyer or Buyer's Agent			
N104	67	Identification Cod	le	X	AN	2/80

Code identifying a party or other code

Segment: N3 Address Information

Position: 250

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Data Element Summary

Ref.	Data Floment	Nomo	Attributes ANSI
<u>Des.</u> N301	Element 166	Name Address Information	M AN 1/5 <u>5</u>
N302	166	Address information Address Information	O AN 1/55

Address information

N4 Geographic Location **Segment:**

Position: 260

> Loop: N1 Optional

Level: Heading Usage: Optional

1

Max Use:

Purpose: To specify the geographic place of the named party If N406 is present, then N405 is required.

Syntax Notes: Semantic Notes:

Comments:

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

A combination of either N401 through N404, or N405 and N406 may be adequate to

		Data Element Summary		
Ref.	Data			ibutes SI
<u>Des.</u> N401	Element 19	Name City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate go	overnn	nent agency
N403	116	Postal Code	O	ID 3/15
N404	26	Code defining international postal zone code excluding pund (zip code for United States)	_	
N4U4	26	Country Code	O	ID 2/3
		Code identifying the country		

Segment: PER Administrative Communications Contact

Position: 060 Loop: N1 Level: Heading Usage: Optional

Max Use:

To identify a person or office to whom administrative communications **Purpose:**

should be directed.

Syntax Notes: If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.

If either PER07 or PER08 is present, then the other is required.

Semantic Notes: Comments:

Data Element Summary

Ref.	Data				ANSI		
<u>Des.</u> PER03	Element 365	Name Commu	unication Number Qualifier	M	ID 2/2		
		Code id	entifying the type of communication number.				
		FX	Facsimile				
		TE	Telephone				
PER04	364	Commu	inication Number				
				М	ANI 1/15		

M AN 1/15

Attributes

Complete communications number including country or area code when applicable.

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.
- G If side at INIA on INIA 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: Comments:

- 1 LIN01 is the line item identification
- 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

		Duta Eleme	and Summary	A 44 •1	4
Ref.	Data			Attrib ANSI	
Des.	Element	Name		ANSI	
LIN 01	350	Assigned Identificati	on	O AN	N 1/20
	350	Assigned Identificati	WII	0 111	1/20
		Not Used			
LIN02	235	Product/Service ID	Qualifier	M]	ID 2/2
		Code identifying the t Product/Service ID (2	ype/source of the descriptive number use 34)	ed in	
		BP	Buyer's Part Number		
T TN102	224	D 1 4/0 1 D		3.5 4.	NT 1/00
LIN03	234	Product/Service ID		M A	N 1/80
		Identifying number for	or a product or service		
LIN04	235	Product/Service ID	Qualifier	\mathbf{X}	ID 2/2
		Code identifying the t Product/Service ID (2	ype/source of the descriptive number use 34)	ed in	
		PO	Purchase Order Number		
LIN05	234	Product/Service ID		X Al	N 1/48

Identifying number for a product or service

LIN06 235 **Product/Service ID Qualifier Engineering Change Level** EC LIN07 234 Product/Service ID Identifying number for product LIN08 235 **Product/Service ID Qualifier** X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor Product Number LIN09 Product/Service ID X AN 1/80 234

Identifying number for a product or service

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:

Data Element Summary

		·	Attributes
Ref.	Data		ANSI
Des.	Element	<u>Name</u>	
UIT01	355	Unit or Basis for Measurement Code	M ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CH	Containe
DZ	Dozen
EA	Each
FT	Foot
GA	Gallon
LB	Pound
PR	Pair
ST	Set
UN	Unit
YD	Yard

Segment: PID Product/Item Description

Position: 080

Loop: LIN Mandatory

Level: Detail
Usage: Optional
Max Use: 1000

Purpose: To describe a product or process in coded or free-form format

Syntax Notes: Semantic Notes: Comments:

Notes:

Data Element Summary

Ref.	Data	Nama	·		Attributes ANSI		
<u>Des.</u> PID01	Element 349	Name Item Descriptio	n Type	M	ID 1/1		
		Code indicating	the format of a description				
		F	Free-form				
PID05	352	Description		\mathbf{X}	AN 1/80		

A free-form description to clarify the related data elements and their content

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.

Ref.	Data			
Des.	Element	Name	Att	<u>ributes</u>
ATH01	672	Resource Authorization Code	M	ID 3/3
		Code identifying the resource which the buyer is authorizing commit to	the s	eller to
		FI Finished (Labor, Material, and Overhea	d/Bu	rden)
		MT Material		
		PQ Previous Quantity Authorized		
ATH02	373	Date	X	DT 8/8
		Date expressed as CCYYMMDD		
		Authorization through date		
ATH03	380	Quantity	X	R 1/15
		Numeric value of quantity		
		Authorization cumulated quantity		
ATH05	373	Date	X	DT 8/8
		Date expressed as CCYYMMDD		
		Start date for cumulative quantity authorization		
ATH03	380	commit to FI Finished (Labor, Material, and Overhead MT Material PQ Previous Quantity Authorized Date Date expressed as CCYYMMDD Authorization through date Quantity Numeric value of quantity Authorization cumulated quantity Date Date expressed as CCYYMMDD	X X	DT 8/8

Segment: \mathbf{SDP} Ship/Delivery Pattern

Position: 678

Loop: LIN/SDP Mandatory

Level: Detail
Usage: Mandatory
Max Use: 1000

Purpose: To identify specific ship/delivery requirements

Syntax Notes: Semantic Notes: Comments:

Notes:

Data Element Summary

Ref.	Data	N.	Attributes ANSI
Des. SDP01	Element 678	Name Ship/Delivery Code	M ID 1/2
		Code which specifies the delivery pattern	
		N As Directed	
SDP02	679	Ship/Delivery Code	M ID 1/2

F As Directed

Segment: FST Forecast Schedule

Position: 410

Loop: LIN/SDP Optional

Level: Detail Usage: Optional

Max Use:

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.

Data Element Summary

Ref.	Data			Attributes ANSI	
Des.	Element	<u>Name</u>			
FST01	380	Quantity		M	R 1/15
		Numeric value of qu	uantity		
FST02	680	Forecast Qualifier		\mathbf{M}	ID 1/1
		Code specifying the associated with a fo A C D	e sender's confidence level of the forecas orecast Immediate Firm Planning	t data	or an action
FST03	681	Forecast Timing Q	Qualifier	M	ID 1/1
		Code specifying int	erval grouping of the forecast		
		C	Daily		
		D	Discrete		
		F	Flexible Interval (from Date X through	Date	Y)
		\mathbf{W}	Weekly Bucket		
		M	Monthly Bucket (Calendar Months)		
FST04	373	Date		M	DT 8/8
		Date expressed as C	CCYYMMDD		
		Scheduled date			
FST05	373	Date		o	DT 8/8
		Date expressed as C	CCYYMMDD		
		Not Used			
FST06	374	Date/Time Qualific	er	M	ID 1/1
		Code specifying typ	pe of date or time		

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Not used

FST07 337 Time X TM 4/8

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)

Not Used

FST08 128 Reference Identification Qualifier X ID 2/3

Code qualifying the Reference Identification

DO Delivery Order Number/RAN

FST09 127 Reference Identification X AN 1/30

Reference information as specified by the Reference Identification Qualifier

${\bf Segment:} {\bf SHP} \ {\bf Shipped/Received \ Information}$

Position: 470
Loop: SHP
Level: Detail
Usage: Used
Max Use: 2

Purpose: To specify shipment and/or receipt information.

Syntax Notes: Semantic Notes: Comments:

Notes:

Ref.	Data		Attributes
		Nome	ANSI
<u>Des.</u> SHP01	Element 673	Name Quantity Qualifier	O ID 2/2
		Code which specifies the type of quant	ity
		01 Discrete Quantity	7
		02 Cumulative Quan	
SHP02	380	Quantity	X R 1/15
		Numeric Value of Quantity	
SHP03	374	Date/Time Qualifier	X ID 3/3
		Code which specifies the type of date.	
		O11 Shipped	
		051 Cumulative Quan	itity Start
SHP04	373	Date	O DT 8/8
		Date received (011) or	
		Cumulative Quantity Start Date (CCY)	YMMDD)
SHP06	373	Date	O DT 8/8
2==	2.0	Cumulative Quantity End Date (CCYY	

Segment: REF Reference Numbers

Position: 480
Loop: SHP
Level: Detail
Usage: Used
Max Use: 2

Purpose: To specify indentifying information

Syntax Notes: Semantic Notes: Comments:

Notes:

Ref.	Data		,	Attr ANS	ibutes SI
<u>Des.</u> REF01	Element 128	Name Reference Qua	alifier	M	ID 2/3
		Code qualifyin	g the reference ID		
		SI	Shipper ID		
REF02	127	Reference ID		X	AN 1/30

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Optional

Max Use:

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.

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.

Ref. <u>Des.</u> CTT01	Data Element 354	Name Number of Line Items Total number of line items in the transaction set	Attributes M N0 1/6
		Total number of LIN segments	
CTT02	347	Hash Total	O R 1/10

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.

Ref.	Data			
Des.	Element	<u>Name</u>	Attr	<u>ributes</u>
SE01	96	Number of Included Segments	M	N0 1/10
		Total number of segments included in a transaction set include segments	ling S	ST and SE
SE02	329	Transaction Set Control Number	M	AN 4/9
		Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction		ion set

CTT*2~ SE*69*0001~

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```
Sample:
ISA*00*
                                                   *130916*0200*U*00401*000000112*0*T*<~
           *00*
                   *ZZ*ACME
                                   *ZZ*SUPPLIER
GS*PS*ACME*SUPPLIER*20130916*0200*112*X*004010~
ST*830*0001~
BFR*05**20130916*DL*A*20130916*20131125*20130916~
DTM*168*20130916*020002~
N1*MI*ACME MANUFACTURING*92*ACME1~
N1*SU*SUPPLIER*1*123456789~
N1*SF*SUPPLIER*1*123456789~
N1*ST*ACME*92*ACME1~
N3*ACME PRODUCTS INC.~
N4*ALBUQUERQUE*NM*48329~
LIN**BP*ACME PART NO*EC*BD*PO*000330~
UIT*PC~
PID*F****LX GRAB HANDLE SWITCH~
ATH*PQ*20130916*8161**20121231~
ATH*FI**14129**20121231~
ATH*MT**14129**20121231~
SDP*N*F~
FST*50*C*W*20130916~
FST*0*D*W*20130917~
FST*0*D*W*20130918~
FST*0*D*W*20130919~
FST*0*D*W*20130920~
FST*200*D*W*20130923~
FST*0*D*W*20130924~
FST*0*D*W*20130925~
FST*0*D*W*20130926~
FST*0*D*W*20130927~
FST*0*D*W*20130930~
SHP*01*500*011*20120410~
SHP*02*8161*051*20121231**20120410~
REF*SI*123123~
LIN**BP*111-W5W*EC*AA*PO*000330~
UIT*PC~
PID*F****BULB 5 W~
ATH*PO*20130916*2500**20121231~
ATH*FI**2756**20121231~
ATH*MT**2756**20121231~
SDP*N*F~
FST*56*D*W*20130916~
FST*0*D*W*20130917~
FST*0*D*W*20130918~
FST*0*D*W*20130919~
FST*0*D*W*20130920~
FST*0*D*W*20130923~
FST*95*D*W*20130924~
FST*0*D*W*20130925~
FST*0*D*W*20130926~
FST*0*D*W*20130927~
FST*0*D*W*20130930~
FST*190*D*W*20131007~
SHP*01*500*011*20100314~
SHP*02*2500*051*20121231**20100314~
REF*SI*741~
```

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