



# ***Delivery Forecast with Release Capability ANSI (X12) 830 v3020***

## **Document Change Log**

Version	Date	Description
1.0	2011.06.08	Document issued.
1.1	2011.09.29	Fix segment BFR "Forecast Type Qualifier"(657) from "SH" to the right value "DL" Delivery Based. Fix segment N1 "SF"(Ship From) Identification Code Qualifier to "92" (Assiged by Customer)
1.2	2011.10.21	Added Vendor's Part Numer at LIN09
1.3	2011.11.22	Added Measurement Units at UIT01 Fixed LOUSiana and Saltillo Plasticos-STP Mailbox. Delete PSO. Added ITP.
1.4	2013.07.17	Added FST02 Code A Immediate for delayed quantities
2.0	2013.11.15	Removed the list Plant Codes. Referenced to EDI Form
2.1	2015.10.19	Clarification ISA Interchange Sender and GS Sender Code
2.2	2018.01.23	Segment terminator changed from "*" to "carriage return"

Issued by: G.Antolin

Distribution: G.Antolin

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## **1. INTRODUCTION**

This document provides the specific description of a subset of the ANSI ASC X12.Delivery Forecast with Release Capability Transaction Set to be used between a Grupo Antolin and a supplier. Hereafter the Transaction set will be called either "830" or "Release".

## **2. MESSAGE DEFINITION**

This document provides the definition of an Order Release Message, based on the ANSI (X12) 830 v3020, to be used in Electronic Data Interchange (EDI) between a G.A. Operating Company and its Trading Partners.

This documentation is fully comprehensive and allows the implementation of the ANSI (X12) 830 v3020 without the necessity for any additional standard related documentation.

### **2.1. FUNCTIONAL DEFINITION**

The Release is a Transaction Set from a Grupo Antolin to a Grupo Antolin supplier. It provides information concerning the quantity and due date requirements for a part being ordered under a Purchase Order.

### **2.2. PRINCIPLES**

The Release and Forecast is intended to:

- Advise the supplier of forecast for a part with forecast date and quantity.
- Advise the supplier of firm demand for a part being ordered under a specific Purchase Order with a specific delivery date and quantity.
- To provide specific information concerning Grupo Antolin Plant destination.
- Advise to the supplier of the last shipment received.

### **2.3. REFERENCES**

The content of this message is based on:

- The message structure as defined by ANSI subset of X12 messages.
- The agreement between the Trading Partners on the data elements to be used, their unique definition, their representation and their values (coded or clear form) as identified in this document.

## **2.4. FIELD OF APPLICATION**

The following definition of Forecast-Release Message in ANSI (X12) format is applicable for the interchange of delivery instructions issued by G.A. for material deliveries to one or more G.A. Operations.

## **3. MESSAGE DESCRIPTION**

The 830 v3020 is a message, which is sent from Grupo Antolin to a party. The message gives the details regarding the Forecast-Release.

### **3.1. INTRODUCTION**

#### 3.1.1. Basic information

#### 3.1.2. Vendor code

The vendor code has been assigned centrally in Grupo Antolin SAP system.

The different vendor codes have now been reported: each vendor code consists of a maximum five digit base.


#### 3.1.3. The receiving plant / Customer Plant Code

- All Grupo Antolin plants are identified by a 3-letters plant-code. (see GA Plant Codes Table)
- All data on the release authorisation refer to plant, order and part number!
- Grupo Antolin Plant will be transmitted in record-type "N1\*ST\*\*92\*XXX" as a 3-letter code (XXX).
- The supplier code will be transmitted in record-type "N1\*Sf\*\*92\*XXXXX" as a 5 digits code maximum(XXXXX).



**TRANSACTION SET 830**

<u>Segment ID</u>	<u>Description</u>	<u>Required by GA</u>
ISA	Interchange Control Header	M
GS	Functional Group Header	M
ST	Transaction Set Header	M
BFR	Beginning segment for Planning Schedule	M
N1	Name	M
N3	Street address	M
N4	City/state	M
PER	Admin Communications Contact	M
LIN	Item Identification	M
UIT	Unit Detail	M
PID	Product/ item description	M
SDP	Ship/Delivery Pattern	M
FST	Forecast Schedule	M
SHP	Shipped/ Received information	M
REF	Reference Nunbers	M
CTT	Transaction Totals	M
SE	Transaction Set Trailer	M
GE	Functional Group Trailer	M
IEA	Interchange Control Trailer	M

**NOTE:** The segment terminator character "\*" has been changed by a "carriage return ->

**ABBREVIATIONS**

AN	ALPHANUMERIC
C	CONDITIONAL
DT	DATE
ID	IDENTIFICATION
M	MANDATORY
NO	NUMBER
O	OPTIONAL
R	REFERENCE
TM	TIME



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**Segment: ISA Interchange Control Header**

**Position:** Heading Only  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To start and identify an interchange of one or more functional groups and interchange related control segments.  
**Sample:** ISA~00~ ~00~ ~ZZ~GAMAILBOX  
 ~01~SUPPLIERMAILBOX~110516~2213~U~00200~038613567~0~P~@**CR**

Tag	Field name	Format	Remarks/value	Used
744 (01)	Authorization info. Qualifier	ID...2	"00" No authorization information present	M
745 (02)	Authorization Information	AN..10	Blanks	M
746 (03)	Security Information Qualifier	ID...2	"00" No security information present	M
747 (04)	Security Information	AN..10	Blanks unless mutually agreed upon	M
704 (05)	Interchange ID Sender Qualifier	ID...2	To be supplied by GA. <b>See EDI Form</b>	M
705 (06)	Interchange Sender ID	ID..15	To be supplied by GA. <b>See EDI Form</b>	M
704 (07)	Interchange ID Receiver Qualifier	ID...02	To be supplied by Trading Partner	M
706 (08)	Interchange Receiver ID	ID..15	To be supplied by Trading Partner	M
373 (09)	Date	DT...06	Current Date: YYMMDD	M
337 (10)	Time	TM..04	Current Time: HHMM	M
726 (11)	Interchange Standards Identifier	ID...01	"U" American National Standards (X12)	M
703 (12)	Interchange Version ID	ID...05	"00200"	M
709 (13)	Interchange Control Number	NO...09	This number identifies interchange data to sender	M
749 (14)	Acknowledgement	ID...01	"0" No Acknowledgement requested	M
748 (15)	Test Indicator	AN...01	"P" Production Data	M
701 (16)	Sub-element Separator	AN...01	Hex 7E @	M



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**Segment: GS Functional Group Header**

**Position:** Heading Only  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Starts and identifies a functional group of related transaction sets and provides control and application identification information.  
**Sample:** GS~PS~GAMAILBOX~SUPPLIERMAILBOX~110516~2213~1~X~003020 **CR**

Tag	Field name	Format	Remarks/value	Used
479 (01)	Functional ID	ID...02	"PS" Planning Schedule with Release Capabilities	M
142 (02)	Applications Sender's Code	ID...12	To be supplied by GA. <b>See EDI Form</b>	M
124 (03)	Application Receiver's Code	ID...12	To be assigned at the time of implementation	M
29 (04)	Data Interchange Date	DT...06	Date when transaction sets generated: YYMMDD	M
30 (05)	Data Interchange Time	TM...04	24-hour clock time when transaction set generated: HHMM	M
28 (06)	Data Interchange Control Number	NO...09	Sequentially assigned by Sender	M
455 (07)	Responsible Agency Code	NO...02	"X" American National Standards (X12)	M
480 (08)	Version	ID...12	"003020"	M

**Segment: ST Transaction Set Header Segment**

**Position:** 010  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Indicates the start of a transaction set and assigns control number  
**Sample:** ST~830~1521650 **CR**

Tag	Field name	Format	Remarks/value	Used
143 (01)	Transaction Set ID	ID...03	"830" Planning Schedule with release capability	M
329 (02)	Transaction Set Control Number	AN...09	Sequential number, assigned by sender	M



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**Segment: BFR Beginning Segment for Planning Schedule**

**Position:** Header  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Indicates the beginning of a planning schedule transaction set and identify related forecast envelope dates.  
**Sample:** BFR~05~~75819040~DL~A~010903~021104~010927**CR**

Tag	Field name	Format	Remarks/value	Used
353 (01)	Transaction Set Purpose Code	ID...02	"05" Replace	M
127 (02)	Reference Number	AN...30	Not Used	C
328 (03)	Release Number	AN...30	Release transmission Number. Increasing identification Non-consecutive counter.	M
675 (04)	Forecast Type Qualifier	ID...02	"DL" Delivery Based	M
676 (05)	Forecast Quantity Qualifier	ID...01	"A" Actual Discreet Quantities	M
373 (06)	Date	DT...06	Forecast Start Date: YYMMDD	M
373 (07)	Date	DT...06	Forecast End Date: YYMMDD	M
373	Date	DT...06	Forecast Generated Date: YYMMDD	M

**Segment: N1 Name Segment**

**Position:** Heading Only  
**Usage:** Mandatory  
**Max Use:** As Specified in ANSI ASC X12 Standard  
**Purpose:** To identify a partner by type of organization, name and code.  
**Sample:** N1~SF~SUPPLIER~92~XXXXX**CR**  
 N1~ST~GRUPO ANTOLIN PLANT~92~XXX**CR**

Tag	Field name	Format	Remarks/value	Used
98 (01)	Organization Identifier	ID...02	"SF": Ship From "ST": Ship To	M
93 (02)	Name	AN...35	Grupo Antolin Plant	C
66 (03)	Identification Code Qualifier	ID...02	Case SF: "92" Case ST: "92"	C
67 (04)	Identification Code	AN...17	<b>Case SF:</b> "XXXXX" maximum five digits Grupo Antolin Supplier ID. <b>Case ST:</b> "XXX" characters Grupo Antolin Plant ID.	C



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**Segment: N3 Street Address Segment**

**Position:** Heading Only  
**Usage:** Mandatory  
**Max Use:** As Specified in ANSI ASC X12 Standard  
**Purpose:** To supply the location of the named party.  
**Sample:** N3~123 ADDRESS

Tag	Field name	Format	Remarks/value	Used
166 (01)	Address	AN...35		M
166 (02)	Address	AN...35		O

**Segment: N4 City/State Segment**

**Position:** Heading Only  
**Usage:** Mandatory  
**Max Use:** As Specified in ANSI ASC X12 Standard  
**Purpose:** To specify the geographic place of the named party  
**Sample:** N4~CITY NAME~XX~123456~XX

Tag	Field name	Format	Remarks/value	Used
98 (01)	City Name	AN...19		C
156 (02)	State or Province Code	AN...02		C
116 (03)	Postal Code	ID...09		O
26 (04)	Country Code	ID...02		O

**Segment: PER Admin Communications Contact Segment**

**Position:** Heading Only  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a person or office to whom administrative communications should be directed.  
**Sample:** PER~BD~~TE~00000000000

Tag	Field name	Format	Remarks/value	Used
366 (01)	Contact Function Code	ID...02	" <b>BD</b> ": Buyer's Dept.	M
93 (02)	Name	AN...35	No Used	O
365 (03)	Communications Number Qualifier	ID...02	" <b>TE</b> ": Telephone	O
364 (04)	Communication Number	AN...21		C
326 (05)	Request Reference Number	AN...45	Not Used	C





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**Segment: LIN Item Identification Detail**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Specifies basic item identification data.  
**Sample:** LIN~00020~BP~156018970~PO~480054~EC~001 **CR**

Tag	Field name	Format	Remarks/value	Used
350 (01)	Assigned Identifier	AN...11	P.O. Line Item	O
235 (02)	Product/Service ID Qualifier	ID...02	" <b>BP</b> ": Buyers Part Number	O
234 (03)	Product/Service ID	AN...30	Grupo Antolin Part Number	C
235 (04)	Product/Service ID Qualifier	ID...02	" <b>PO</b> ": Purchase Order Number	O
234 (05)	Product/Service ID	AN...30	PO Number	C
235 (06)	Product/Service ID Qualifier	ID...02	" <b>EC</b> ": Engineering Level	O
234 (07)	Product/Service ID	AN...30	Grupo Antolin Engineering Level	C
235 (08)	Product/Service ID Qualifier	ID...02	" <b>VP</b> ": Vendor's Part Number	O
234 (09)	Product/Service ID	AN...30	Vendor's Part Number	C



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**Segment: UIT Unit Detail**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Specifies item unit data.  
**Sample:** UIT~PC

Tag	Field name	Format	Remarks/value	Used
355 (01)	Unit of Measure Code	ID...02	<b>"PC":</b> Each - Piece YD Yard LB Pounds MR Meters KG Kilograms LT Liters RL Rolls IN Inches FT Foots GA Gallons SM Square Meters GR Grams ML Milliliters CA Case BX Box PK Packet (No pack) DZ Dozen PR Pair	M
212 (02)	Unit Price	R....14	Not Used	C
639 (03)	Basis of Unit Price Code	ID...01	Not Used	O



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**Segment: PID Product Item Description**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To describe a product in coded or free – form.  
**Sample:** PID~F~~~~ENCADREMENT MIR R25/Y30/ESPACE NOIR **CR**

Tag	Field name	Format	Remarks/value	Used
349 (01)	Item Description Type	ID...01	"F"	O
750 (02)	Product char code	ID...03	Not Used	O
348 (03)	Item Description qualifier	ID...02	Not Used	O
751 (04)	Product / Description Code	ID...12	Not Used	O
352 (05)	Description	AN...80	Part Description	C

**Segment: SDP Ship / Delivery Pattern**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Identifies specific ship/delivery requirements  
**Sample:** SDP~Y~Y **CR**

Tag	Field name	Format	Remarks/value	Used
678 (01)	Ship/Delivery Pattern Code	ID...02	"Y": None	M
679 (02)	Ship/Delivery Pattern Timing Code	ID...01	"Y": None	M

**Segment: FST Forecast Schedule**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Specifies the forecasted dates and quantities.  
**Sample:** FST~544~A~D~110516 **CR** (delayed quantities, could be in transit)  
 FST~320~C~D~110516 **CR**  
 FST~288~D~W~110523~110529 **CR**

Tag	Field name	Format	Remarks/value	Used
380 (01)	Quantity	R....10	Forecast Quantity	M
680 (02)	Forecast Qualifier	ID...01	"A": Immediate "C": Firm Schedule to Ship "D": Planning Schedule for Reference Only	M
681 (03)	Forecast Timing Qualifier-	ID...01	"D": Discrete "W" Weekly "F": Flexible	M
373 (04)	Date	DT...06	YYMMDD	M
373 (05)	Date	DT...06	If 681(03) = "W" or "F". YYMMDD	M



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**Segment: SHP Shipped / Received Information**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify shipment and/or receipt information.  
**Sample:** SHP~01~32~050~110513 **CR**  
 SHP~02~5744~051~110101 **CR**

Tag	Field name	Format	Remarks/value	Used
673 (01)	Quantity Qualifier	ID...02	"01": Discrete quantity "02": Cumulative quantity shipped	O
380 (02)	Quantity	R....10		C
374 (03)	Date time Qualifier	ID...03	"050": Received "051": Cumulative quantity start date	O
373 (04)	Date	DT...06	YYMMDD	C
337 (05)	Time	TM...04	No Used	O
373 (06)	Date	DT...06	Last receipt date: YYMMDD	C
337 (07)	Time	TM...04	Not Used	O

**Segment: REF Reference Numbers**

**Position:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers.  
**Sample:** REF~SI~71466950 **CR**

Tag	Field name	Format	Remarks/value	Used
128 (01)	Reference Number Qualifier	ID...02	"SI": Shipper	M
127 (02)	Reference Number	AN...30		C
352 (03)	Description	AN...80		C



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**Segment: CTT Transaction Totals**

**Position:** Summary Only  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Transmits s hash total for a specific element or elements in the transaction set.  
**Sample:** CTT~20~360672

Tag	Field name	Format	Remarks/value	Used
354 (01)	Number of Line Items	NO...06	Number of LIN segments in this transaction set	M
347 (02)	Hash Totals	R....10	Sum of Quantity Ordered Element FST (01)	O

**Segment: SE Transaction Set Trailer Segment**

**Position:** 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 ST and SE segments).  
**Sample:** SE~30~302681

Tag	Field name	Format	Remarks/value	Used
96 (01)	Number of Included Segments	NO...06	Total number of all segments in transaction set, including the ST and SE segments	M
329 (02)	Transaction Set Control Number	AN...09	This number must match the transaction set. (Control number ST (02))	M



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**Segment: GE Functional Group Trailer (END)**

**Position:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of a functional group and provide control information.  
**Sample:** GE~1~1 **CR**

Tag	Field name	Format	Remarks/value	Used
97 (01)	Number of included Transaction Sets	NO...06	Total number of transactions sets included	M
28 (02)	Data Interchange Control Number	NO...09	Sequential number that must match GS(06)	M

**Segment: IEA Interchange Control Trailer**

**Position:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Defines the end of an interchange of one or more functional groups and interchange related control segments.  
**Sample:** IEA~1~038613567 **CR**

Tag	Field name	Format	Remarks/value	Used
405 (01)	Number of Included Groups	NO...05	Count of the number of Functional Groups included in a transmission	M
709 (02)	Interchange Control Number	NO...09	Together with ISA(13) this number assigned by Customer identifies interchange data to supplier. This number should be used for Audit trails.	M



**SAMPLE INTERCHANGE (SHOWN AS INDIVIDUAL SEGMENTS):**

ISA~00~ ~00~ ~ZZ~GAMAILBOX  
 ~01~SUPPLIERMAILBOX~110516~2213~U~00200~038613567~0~P~@ **CR**  
 GS~PS~GAMAILBOX~SUPPLIERMAILBOX~110516~2213~1~X~003020 **CR**  
 ST~830~302681 **CR**  
 BFR~05~75819040~DL~A~110516~110804~110516 **CR**  
 N1~SF~SUPPLIER~92~XXXXX **CR**  
 N4~CITY NAME~XX~123456~XX **CR**  
 N1~ST~GRUPO ANTOLIN PLANT~92~XXX **CR**  
 N3~123 ADDRESS **CR**  
 N4~BELVIDERE~IL~61008~US **CR**  
 PER~BD~TE~0000000 **CR**  
 LIN~00410~BP~197013321-01~PO~123456 **CR**  
 UIT~PC **CR**  
 PID~F~~~~SUBSTRATE ASSY MK49 RR RH BG BG 09 **CR**  
 SDP~Y~Y **CR**  
 FST~0~C~D~110509 **CR**  
 FST~320~C~D~110516 **CR**  
 FST~288~D~W~110523~110529 **CR**  
 FST~192~D~W~110530~110605 **CR**  
 FST~224~D~W~110606~110612 **CR**  
 FST~224~D~W~110613~110619 **CR**  
 FST~288~D~W~110620~110626 **CR**  
 FST~256~D~W~110627~110703 **CR**  
 FST~320~D~W~110704~110710 **CR**  
 FST~256~D~W~110711~110717 **CR**  
 FST~288~D~W~110718~110724 **CR**  
 FST~448~D~W~110725~110801 **CR**  
 FST~1408~D~M~110802~110901 **CR**  
 SHP~01~32~050~110513 **CR**  
 REF~SI~71466950 **CR**  
 SHP~02~5744~051~110101 **CR**  
 CTT~20~360672 **CR**  
 SE~30~302681 **CR**  
 GE~1~1 **CR**  
 IEA~1~038613567 **CR**




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**GRUPO ANTOLIN PLANT CODES**

GRUPO ANTOLIN PLANT CODES		
GRUPO ANTOLIN - Plant	Plant Code	Mailbox Code
<p>This information full and updated is available in  <b>EDI Communications Supplier Form</b>            Chapter 6. Grupo Antolin Factories Codes</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;">  <p style="text-align: center;"><b>EDI Communications Supplier Form</b></p> <p style="font-size: small;"> <span>Vista protegida</span> <span>Habilitar edición</span> <span>Advertencia de seguridad</span> <span>Habilitar contenido</span> <span>GA Information</span> <span>Information Required. Fill it, please</span> </p> </div> <p><b>Mailbox code value depends on Communications Type and Normative. See Chapter 7.A. MAILBOX – SFID</b></p>		