

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 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 v3020/4010, 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 v3020/4010 without the necessity for any additional standard related documentation.

2.1. FUNCTIONAL DEFINITION

The Release is a Transaction Set from a Antolin to a 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 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 v3020/4010 is a message, which is sent from 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 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 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!
- 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*XXXXXXXXXX" as a digits code (XXXXXXXXXX).

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 Numbers | 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 |

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~GA-MAILBOX
~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. See EDI Form | M |
| 705 (06) | Interchange Sender ID | ID..15 | To be supplied by GA. See EDI Form | 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", "00302", "00401" | 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: v3020: GS~PS~GA-MAILBOX~SUPPLIER-MAILBOX~110516~2213~1~X~003020 **CR**
v4010: GS~PS~GA-MAILBOX~SUPPLIER-MAILBOX~**20**110516~2213~1~X~004010 **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. See EDI Form | 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 DT...08 | Date when transaction sets generated: v3020 – YYMMDD v4010 – CCYYMMDD | 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 ", " 004010 " | 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: v3020: BFR~05~~75819040~DL~A~010903~021104~010927 **CR**
v4010: BFR~05~~75819040~SH ~A~**20110904~20121104~20110903** **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. "SH" Shipment Based. | M |
| 676 (05) | Forecast Quantity Qualifier | ID...01 | "A" Actual Discreet Quantities. | M |
| 373 (06) | Date | DT...06 DT...08 | Forecast Start Date: v3020 - YYMMDD v4010 - CCYYMMDD | M |
| 373 (07) | Date | DT...06 DT...08 | Forecast End Date: v3020 - YYMMDD v4010 - CCYYMMDD | M |
| 373 (08) | Date | DT...06 DT...08 | Forecast Generation Date: v3020 - YYMMDD v4010 - CCYYMMDD | 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~XXXXXXXXXX **CR**
N1~ST~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 | Antolin Plant. | C |
| 66 (03) | Identification Code Qualifier | ID...02 | "92" Defined by buyer. | C |
| 67 (04) | Identification Code | AN...17 | Case SF: "XXXXXXXXXX" digits Antolin Supplier ID. Case ST: "XXX" characters Antolin Plant ID. | C |

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**CR**

| 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**CR**

| 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~0000000000**CR**

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

Segment: **LIN** Item Identification Detail
Position: Detail
Usage: Mandatory
Max Use: As Specified in ANSI ASC X12 Standard
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 | " BP ": Buyers Part Number. | O |
| 234 (03) | Product/Service ID | AN...30 | Antolin Part Number. | C |
| 235 (04) | Product/Service ID Qualifier | ID...02 | " PO ": Purchase Order Number. | O |
| 234 (05) | Product/Service ID | AN...30 | PO Number. | C |
| 235 (06) | Product/Service ID Qualifier | ID...02 | " EC ": Engineering Level. | O |
| 234 (07) | Product/Service ID | AN...30 | Antolin Engineering Level | C |
| 235 (08) | Product/Service ID Qualifier | ID...02 | " VP ": Vendor's Part Number. | O |
| 234 (09) | Product/Service ID | AN...30 | Vendor's Part Number. | C |

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

| Tag | Field name | Format | Remarks/value | Used |
|----------|--------------------------|---------|---|------|
| 355 (01) | Unit of Measure Code | ID...02 | " PC ": 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 |

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: As Specified in ANSI ASC X12 Standard
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: As Specified in ANSI ASC X12 Standard
Purpose: Specifies the forecasted dates and quantities
Sample: v3020: 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**
 v4010: FST~544~A~D~**20**110516 **CR** (delayed quantities, could be in transit)
 FST~320~C~D~**20**110516 **CR**
 FST~288~D~W~**20**110523~**20**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 " M " Monthly " F ": Flexible | M |
| 373 (04) | Date | DT...06 DT...08 | v3020 - YYMMDD v4010 - CCYYMMDD | M |
| 373 (05) | Date | DT...06 DT...08 | If 681(03) = "W" or "M" or "F". v3020 - YYMMDD v4010 - CCYYMMDD | M |

Segment: **SHP** Shipped / Received Information
Position: Detail
Usage: Mandatory
Max Use: 2
Purpose: To specify shipment and/or receipt information
Sample: v3020: SHP~01~32~050~110513 **CR**
 SHP~02~5744~051~11010 **CR**
 v4010: SHP~01~32~050~**20**110513**CR**
 SHP~02~5744~051~**20**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. | O |
| 373 (04) | Date | DT...06 DT...08 | " 01 ": Last receipt date. " 02 ": Cumulative quantity start date. v3020 - YYMMDD v4010 - CCYYMMDD | C |
| 337 (05) | Time | TM...04 | Not Used. | O |
| 373 (06) | Date | DT...0x | Not used. | 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 |

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 |

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 

| 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 

| 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):

Version 003020:

ISA~00~ ~00~ ~ZZ~GA-MAILBOX
 ~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~SH~A~110516~110804~110516**CR**
N1~SF~SUPPLIER~92~XXXXXXXXXX**CR**
N4~CITY NAME~XX~123456~XX**CR**
N1~ST~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**

INFORMATION SYSTEMS POLICY 080207

Version 004010:

ISA~00~ ~00~ ~ZZ~GA-MAILBOX
~01~SUPPLIERMAILBOX~110516~2213~U~00401~038613567~0~P~@ CR
GS~PS~GAMAILBOX~SUPPLIERMAILBOX~20110516~2213~1~X~004010 CR
ST~830~302681 CR
BFR~05~~75819040~DL~A~20110516~20110804~n110516 CR
N1~SF~SUPPLIER~92~XXXXXXXXX CR
N4~CITY NAME~XX~123456~XX CR
N1~ST~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~2011050 CR
FST~320~C~D~2011051 CR
FST~288~D~W~20110523~20110529 CR
FST~192~D~W~20110530~20110605 CR
FST~224~D~W~20110606~20110612 CR
FST~224~D~W~20110613~20110619 CR
FST~288~D~W~20110620~20110626 CR
FST~256~D~W~20110627~20110703 CR
FST~320~D~W~20110704~20110710 CR
FST~256~D~W~20110711~20110717 CR
FST~288~D~W~20110718~20110724 CR
FST~448~D~W~20110725~20110801 CR
FST~1408~D~M~20110802~20110901 CR
SHP~01~32~050~20110513 CR
REF~SI~71466950 CR
SHP~02~5744~051~20110101 CR
CTT~20~360672 CR
SE~30~302681 CR
GE~1~1 CR
IEA~1~038613567 CR

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|--|---|--|
|  | <p style="text-align: center;">ANTOLIN ANSI (X12): 830 V3020/4010</p> | <p style="text-align: center;">DSI</p> |
| <p style="text-align: center;">INFORMATION SYSTEMS POLICY 080207</p> | | |

ANTOLIN PLANT CODES

(See [EDI Communications Supplier Form](#))