Means Industries, Inc.

Planning Schedule with Release Capability Standard
ANSI X.12 830 version 4010

Revision 1.1

Release Date: 04/30/2018

Description

Transaction Type
The Material Release, known as the Planning schedule with Release capability, is referred to by its transaction set number: 830

Applicable Standard and Conventions
The 830 transaction set is based upon the AIAG Implementation Guideline for Electronic Data Interchange document, for ANSI ASCX12 Version Release 004010.

Mapping
A Material Release (830) transmission is documented on the following pages to show our use of Material Release standards.

Schedule
The frequency of the transmission should roughly parallel the past frequency and regularity of the paper releases. That is, releases are not necessarily created every week, but instead, are determined by the individual plant needs.
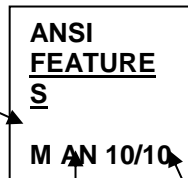
Backup Procedure
If a failure in the EDI process occurs, the Material Release data will be transmitted via fax, or some other method which is timely, reasonable and appropriate under the circumstances.

Key
The **ANSI Features** codes on the following pages are defined as follows:

1) Presence indicator

ANSI FEATURES

M AN 10/10

   M = Mandatory
   O = Optional
   C = Conditional

2) Data element types

   AN = Alpha Numeric

   ID = Identification Code

   DT = Date (CCYYMMDD)

   TM = Time (HHMM)

   R = Real Number – Decimal is explicit

       Example: 1.23 = 1.23

   N0 = Numeric / # of Decimal Places – Decimal is implied

       Example: N1 123 = 12.3

                N2 123 = 1.23

                N3 123 = .123

3) Number of characters permitted (minimum/maximum)

SEGMENT   : ISA - Interchange Control Header

LEVEL : N/A

MAX USAGE/LOOPS : 1 / NONE

PURPOSE : To start and identify an interchange of one or more functional groups and interchange related control segments

GENERAL INFORMATION : None

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
ISA01	744	Authorization Information Qualifier	M ID 02/02	Use "00" (zeros)
ISA02	745	Authorization Information	M AN 10/10	Use spaces
ISA03	746	Security Information Qualifier	M ID 02/02	Use "00" zeros
ISA04	747	Security Information	M AN 10/10	Use spaces
ISA05	704	Interchange Id Qualifier	M ID 02/02	Use "01"
ISA06	705	Interchange Sender Id	M ID 15/15	Our Duns Number
ISA07	704	Interchange Id Qualifier	M ID 02/02	Use "01"
ISA08	706	Interchange Receiver Id	M ID 15/15	Supplier Duns Number
ISA09	373	Date	M DT 06/06	Date of Transmission "YYMMDD"
ISA10	337	Time	M TM 04/04	Time of Transmission "HHMM" 24 Hour
ISA11	726	Interchange Standards ID	M ID 01/01	"U" = USA
ISA12	703	Interchange Version ID	M ID 05/05	"00401"
ISA13	709	Interchange Control Number	M N0 09/09	Unique number will match IEA02
ISA14	749	Acknowledgment Requested	M ID 01/01	"0" = no acknowledgment
ISA15	748	Test Indicator	M ID 01/01	Only use "P" for production data
ISA16	701	Sub-element Separator	M ID 01/01	Must be different than ELEM Separator

ELEMENT SEPARATOR and SEGMENT TERMINATOR

Segment Terminator   HEX "1C"
Element Separator   HEX "2A"
Sub-element Separator HEX "3C"

SEGMENT   **:** GS - Functional Group Header

LEVEL   **:** N/A

MAX USAGE/LOOPS **:** 1 / as required

PURPOSE   **:** To indicate the beginning of a functional group and to provide control information

**GENERAL
INFORMATION**   **: Strict compliance and agreement on content by trading partners is required.**

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
GS01	479	Functional ID	M ID 02/02	For 830 use "PS"
GS02	142	Application Sender Code	M ID 02/12	Our Duns Number
GS03	124	Application Receiver Code	M ID 02/12	Supplier Duns Number
GS04	029	Data Interchange Date	M DT 08/08	Date of transmission "CCYYMMDD"
GS05	030	Data Interchange Time	M TM 04/08	Date of transmission "HHMM" 24 hour
GS06	028	Data Interchange Number	M N0 01/09	Must be the same as the number in GE02
GS07	455	Responsibility Agency	M ID 01/02	"X" for X12
GS08	480	Version	M ID 01/02	"004010" ANSI Version & Release Number

SEGMENT   **:** ST - Transaction Set Header

LEVEL   **:** Heading Only

MAX USAGE/LOOPS **:** 1 / none

PURPOSE   **:** To indicate the start of a transaction set and to assign a control number

**GENERAL
INFORMATION**   **:** The transaction set control number (ST02) in this header must match the
                         transaction set control number (SE02) in the transaction set trailer (SE).
                         This segment is mandatory.

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
ST01	143	Transaction Set ID Identifier	M ID 03/03	"830" = Material Release
ST02	329	Transaction Set Control Number	M AN 04/09	A unique control number assigned to each transaction set within a functional group, incremented by 1 for each subsequent transaction set. Same as SE02.

SEGMENT   : BFR - Beginning Segment for Planning Schedule

LEVEL   : Heading

MAX USAGE/LOOPS : 1 / none

PURPOSE   : To indicate the beginning of a planning schedule transaction set and related forecast dates

GENERAL INFORMATION   : None

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
BFR01	353	Transaction Set Purpose	M ID 02/02	"05" Replacement
BFR02	127	Forecast Order Number	C AN 01/30	Not used
BFR03	328	Release Number	C AN 01/30	Same as LIN09
BFR04	675	Forecast Type Qualifier	M ID 02/02	"SH" = Shipment based
BFR05	676	Forecast Quantity Qualifier	M ID01/01	"A" = Actual Discrete Quantities
BFR06	373	Horizon Start Date	M DT 08/08	"CCYYMMDD"
BFR07	373	Horizon End Date	M DT 08/08	"CCYYMMDD"
BFR08	373	Forecast Generation Date	M DT 08/08	"CCYYMMDD"

SEGMENT   **:** N1 - Name

LEVEL   **:** Heading

MAX USAGE/LOOPS **:** 1 / 200

PURPOSE   **:** To identify a party by type of organization, name and code

**GENERAL
INFORMATION**   **:** The N1 will be used to identify the ship to location

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
N101	098	Organization Identifier	M ID 02/02	"ST" for Ship to Location
N103	066	Identification Code Qualifier	M ID 02/02	"92" = Assigned by Buyer
N104	067	Identification Code	M AN 02/17	Code identifying a party "US02"=MPS Saginaw "US03"=MTP Saginaw "US07"=MTP Sterling Heights "US10"=MTP Shelby Township "CA08"=MTP London

SEGMENT   **:** LIN - Line Item Detail

LEVEL   **:** Detail

MAX USAGE/LOOPS **:** 1 / 10,000

PURPOSE   **:** To specify basic item identification data

**GENERAL
INFORMATION**   **:** This Segment will be used for our Part number, Purchase Order number and
                           Purchase Order line number

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
LIN02	235	Product ID Qualifier	M ID 02/02	"BP" = Buyers Part
LIN03	234	Product ID	M AN 01/30	Buyers Part Number
LIN04	235	Product ID Qualifier	M ID 02/02	"PO" = Purchase Order Number
LIN05	234	Product ID	M AN 01/30	Buyers Purchase Order Number
LIN06	235	Product ID Qualifier	M ID 02/02	"PL" = Purchase Order Line Number
LIN07	234	Product ID	M AN 01/30	Buyers Purchase Order Line Number
LIN08	235	Product ID Qualifier	M ID 02/02	"RL" = Release Number
LIN09	234	Product ID	M AN 03/03	Purchase Order Release Number

SEGMENT   **:** UIT - Unit Detail

LEVEL   **:** Detail

MAX USAGE/LOOPS   **:** 1 / None

PURPOSE   **:** To specify item unit data

**GENERAL
INFORMATION**   **:** This Segment indicates the unit of measure for all quantities relating to the line item

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
UIT01	355	Unit of Measurement Code	M ID 02/02	Any valid ANSI code
UIT02		Exponent		Not used
UIT03		Multiplier		Not used

SEGMENT   **:** ATH - Resource Authorization

LEVEL   **:** Detail

MAX USAGE/LOOPS   **:** 20 / None

PURPOSE   **:** To specify resource authorization

**GENERAL
INFORMATION**   **:** None

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
ATH01	672	Resource Authorization Qualifier	M ID 02/02	"PQ" = Cumulative Quantity Received "MT" = Material Authorization
ATH02	373	Date	C DT 08/08	"PQ" = Last Received Date "CCYYMMDD" "MT" = Not Used
ATH03	380	Quantity	C R 01/10	"PQ" = Last Qty Received "MT" = Authorized Material
ATH04	380	Quantity	O R 01/10	"PQ"= Year to Date Received "MT"= Not Used
ATH05	373	Date "CCYYMMDD"	C DT 08/08	"PQ" = Purchase Order Date
		"CCYYMMDD"		"MT" = Purchase Order Date

SEGMENT   **:** SDP - Ship / Delivery Pattern

LEVEL   **:** Detail

MAX USAGE/LOOPS   **:** 1 / None

PURPOSE   **:** To identify specific ship/delivery requirements

**GENERAL
INFORMATION**   **:** This segment specifies what day of the week and/or a time frame during the day
                            a shipment is to be made

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
SDP01	678	Ship/Delivery Pattern	M ID 01/02	Any valid ANSI code
SDP02	679	Ship/Delivery Pattern Time	M ID 01/02	Any valid ANSI code

SEGMENT   **:** FST - Forecast Schedule

LEVEL   **:** Detail

MAX USAGE/LOOPS **:** 104 / None

PURPOSE   **:** To specify the forecast dates and quantities

**GENERAL
INFORMATION**   **:** This Segment is mandatory

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
FST01	380	Quantity	M R 01/10	Must use
FST02	680	Forecast Qualifier	M ID 01/01	"C" = Firm or "D" = Discrete (Planning)
FST03	681	Forecast Timing Qualifier	M ID 01/01	"D" = Discrete
FST04	373	Date	M DT 08/08	Due Date = "CCYYMMDD"

SEGMENT   **:** CTT - Transaction Totals

LEVEL   **:** Summary

MAX USAGE/LOOPS **:** 1 / None

PURPOSE   **:** To transmit the total number of LIN segments within this transaction set

GENERAL
INFORMATION   **:** This segment allows the receiver to perform checks for completeness and
                                     correctness of this transaction set

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
CTT01	354	Number of Line Items	M N0 01/06	Total number of LIN segments
CTT02	347	Hash Total	M R 01/10	Accumulation of FST values

SEGMENT   : SE Transaction Set Trailer

LEVEL   : Trailer

MAX USAGE/LOOPS   : 1 / None

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.

**GENERAL
INFORMATION**   : The number of included segments is the total of all segments used in the transaction set
                           including the ST and SE segments. The transaction set control number value in this
                           trailer must match the same element value in the transaction header (ST02)

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
SE01	096	Number of Included Segments	M N0 01/06	
SE02	329	Transaction Set Control Number	M AN 04/08	Same as corresponding ST02

SEGMENT **:** GE - Function Group Trailer

LEVEL **:** N/A

MAX USAGE/LOOPS **:** 1 / as required

PURPOSE **:** To indicate the end of a functional group of related transaction sets

GENERAL
INFORMATION **:** The data interchange control number (GE02) in trailer must be identical to the same data
element in the associated functional group header (GS)

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
GE01	097	Number of Included Transaction Sets	M N0 01/06	The total number of ST/SE pairs within the functional group
GE02	028	Data Interchange Control Number	M N0 01/09	Must be identical to the same data element in the associated group header (GS06)

SEGMENT   **:** IEA Interchange Control Trailer

LEVEL   **:** N/A

MAX USAGE/LOOPS : 1 / None

PURPOSE   **:** To define the end of an interchange of one or more functional groups and interchange
                                related control segments

**GENERAL
INFORMATION**   **:** The interchange control number in this trailer must match the value in the ISA13 element

ELEM NO	#	NAME	ANSI FEATURES	COMMENTS
IEA01	405	Number of Included Groups	M N0 01/05	Number of GS segments included between ISA and this IEA
IEA02	709	Interchange Control Number	M N0 09/09	Must Match ISA13

830 Example

ISA*00*   *00*   *01*112900746   *01*123456789   *100129*0849*U*04010*000000240*0*P*/~
GS*PS*112900746*123456789*20100129*0849*123*X*004010~
ST*830*0001~
BFR*05**199*SH*A*20100119*99991230*20100129~
N1*ST**92*US02~
LIN**BP*19999*PO*5500000999*PL*00010*RL*199~
UIT*EA~
ATH*MT**1920000**20100510~
ATH*PQ*20100120*40000*1600000*20100122~
SDP*Y*Y~
FST*0*C*D*20100129~
FST*40000*C*D*20100201~
FST*40000*C*D*20100208~
FST*40000*D*D*20100215~
FST*40000*D*D*20100222~
FST*40000*D*D*20100301~
FST*40000*D*D*20100308~
FST*40000*D*D*20100315~
FST*40000*D*D*20100322~
FST*0*D*D*20100329~
FST*40000*D*D*20100405~
FST*40000*D*D*20100412~
FST*40000*D*D*20100419~
FST*40000*D*D*20100426~
FST*40000*D*D*20100503~
CTT*1*520000~
SE*25*0001~
GE*1*123~
IEA*1*000000240~