830 Material Release

MUVIQ USA, LLC

North America

Division

ANSI ASC X12 4010

Version: 1.0

Publication:

10/01/15

Change Control

Version ID	Date of Update	Updated By:	Description of Version and Change
2015001	10/01/15	Evelyn Herrick	Initial Deployment of this document.
2018001	02/14/18	Evan Meyer	Changes resulting from ERP Migration to CMS: 1. BFR04 - removed DL as an option leaving only SH. BFR05 - changed from C to A. 2. LIN06/07 - added Eng. Change Level as optional. 3. FST01 - changed cumulative to discrete QTY. 4. Updated 830 example and example segments to reflect the changes made. 5. Removed "Dayco N.A. Helpdesk" from
2018002	05/23/18	Evan Meyer	Additional changes resulting from ERP Migration to CMS: 1. BFR04 - added DL and removed SH. All schedules will be Delivery Based. 2. FST03 - include D (daily) as forecast schedule option. 3. SHP – added another occurrence of the shipped/received information segment for last receipt quantity and date. 4. REF – added reference segment to include the last shipment ID received. 5. Updated 830 example and example segments to reflect the changes made. 6. Updated the Business Process Data Content
2018003	07/19/18	Evan Meyer	Corrected the description associated with SHP03 and SHP04 within the SHP segment for the Starting CUM.
2018004	07/25/18	Evan Meyer	Changes to allow both DL (delivery based) and SH (Shipment based) for BFR04 schedule type.
2018005	11/06/24	Erick Whitten	Change company Name, Dayco to MUVIQ

Standards Overview

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.

Business Overview

EDI provides many benefits to support your business in achieving its objectives. EDI reduces paperwork (forms handling), data entry labor costs, printing costs, and postage costs. EDI drives out inefficiencies in the business process.
Organizations choosing EDI should consider that the full benefits are only received when both parties fully integrate the EDI data into their application systems.

Business Processing - Data Content

- MUVIQ will create Material Releases based upon demand from Dayco's customers.
- The releases will be used to communicate both firm and planning requirements.
- Releases will be available on a schedule that your buyer has defined for your supplier code. This may be daily or weekly.
- When a MUVIQ trading partner retrieves their releases, MUVIQ requires that the trading partner transmits a 997 Functional Acknowledgement back to confirm receipt of releases.
- The 997 Functional Acknowledgement must be transmitted to MUVIQ within 24 hours of receiving the 830 Material Release.

Additional Information

Testing Procedure: Additional information regarding EDI Startup and Testing Procedures with *MUVIQ USA LLC* is available in the MUVIQ EDI implementation guide.

Codes: All acceptable codes required to implement the 830 Material release and other transaction sets, have been consolidated into an appendix document. Please contact edisupport@dayco.com

Contacts

EDI Certification:
MUVIQ EDI Support Team
edisupport@dayco.com

Business Relations:
Please contact your Plant or MUVIQ Buyer

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Material Release

Functional Group=PS

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.

Headers:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ISA	Interchange Control Header	M	1			Must use
0200	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
100	ST	Transaction Set Header	M	1			Must use
200	BFR	Beginning Segment for Planning Schedule	M	1			Must use
LOOP ID – N1					**200**		**Must Use**
230	N1	Name	O	1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN					**>1**		**Must Use**
0100	LIN	Item Identification	M	1			Must use
0200	UIT	Unit of Measure	O	1			Must use
LOOP ID – LIN/SDP					**260**		**Must Use**
0450	SDP	Ship/Delivery pattern	O	1			Must use
0460	FST	Forecast schedule	O	260			Must use
LOOP ID – LIN/SHP					**25**		**Must Use**
0470	SHP	Shipped/received Information	O	1			Must use
0480	REF	Reference Identification	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - CTT					**1**		**Must Use**
010	CTT	Transaction Totals	M	1			Must use

Trailers:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	GE	Functional Group Trailer	M	1			Must use
020	IEA	Interchange control Trailer	M	1			Must use

The following is an example 830. All supplier mapping and set up should be based on the 830 Specs and not this example transaction.

Example:

*ISA*00* *00* *01*150148617 *ZZ*XXXXXXXXX *180209*1300*U*00401*180000001*0*P*>~*
*GS*PS*150148617*XXXXXXXXX*20180209*1300*180000001*X*004010~*
*ST*830*8300001~*
*BFR*05**180209*DL*A*20180209**20180209~*
*N1*SF*SUPPLIER NAME*92*123456~*
*N1*ST*MUVIQ USA - SPRINGDALE*92*112~*
*LIN*1*BP*AA1234*PO*112000165*EC*A~*
*UIT*EA~*
*SDP*N*F~*
*FST*100*C*D*20180212~*
*FST*0*C*D*20180213~*
*FST*0*C*D*20180214~*
*FST*50*C*D*20180215~*
*FST*0*C*D*20180216~*
*FST*200*D*W*20180219~*
*FST*400*D*W*20180226~*
*FST*400*D*W*20180305~*
*FST*450*D*W*20180312~*
*FST*0*D*W*20180319~*
*FST*400*D*W*20180326~*
*FST*0*D*W*20180402~*
*FST*400*D*W*20180409~*
*FST*0*D*W*20180416~*
*FST*300*D*W*20180423~*
*FST*300*D*W*20180430~*
*FST*0*D*W*20180507~*
*FST*425*D*W*20180514~*
*FST*1600*D*W*20180709~*
*FST*1600*D*W*20180806~*
*SHP*01*12000*050*20180122~*
*REF*SI*1234567ABC~*
*SHP*02*12000*051*20180122~*
*LIN*2*BP*BB1234*PO*112000187*EC*B~*
*UIT*EA~*
*SDP*N*F~*
*FST*0*C*D*20180212~*
*FST*0*C*D*20180213~*
*FST*50*C*D*20180214~*
*FST*0*C*D*20180215~*
*FST*0*C*D*20180216~*
*FST*150*D*W*20180312~*
*FST*175*D*W*20180409~*
*SHP*01*100*050*20180129*
*REF*SI*1234568XYZ~*
*SHP*02*3500*051*20180129*
*CTT*2~*
*SE*45*8300001~*
*GE*1*180000001~*
*IEA*1*180000001~*

Segment:	**ISA** Interchange Control Header
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To start and identify an interchange of zero or more functional groups and interchange-related control segments
Example: ISA*00* *00* *01*150148617 *01*123456789 *1800209*1300*U*00401*180000001*0*P	

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA02	I02	**Authorization Information** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	**Security Information Qualifier** Code to identify the type of information in the Security Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA04	I04	**Security Information** 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 (I03)	M	AN	10/10	Must use
ISA05	I05	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2	Must use
ISA06	I06	**Interchange Sender ID** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **Code** **Name** 01 Duns (Dun & Bradstreet)	M	ID	2/2	Must us

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	M	AN	15/15	Must use
ISA09	I08	**Interchange Date** Date of the interchange	M	DT	6/6	Must use
ISA10	I09	**Interchange Time** Time of the interchange	M	TM	4/4	Must use
ISA11	I10	**Interchange Control Standards Identifier** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer **All valid standard codes are used.**	M	ID	1/1	Must use
ISA12	I11	**Interchange Control Version Number** Code specifying the version number of the interchange control segments **Code** **Name** 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
ISA13	I12	**Interchange Control Number** A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	**Acknowledgment Requested** Code sent by the sender to request an interchange acknowledgment (TA1) **Code** **Name** 0 No Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	**Usage Indicator** Code to indicate whether data enclosed by this interchange envelope is test, production or information **All valid standard codes are used.**	M	ID	1/1	Must use
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	M		1/1	Must us

Segment:	**GS** Functional Group Header
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	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
Semantic:	1: GS04 is the group date. 2: GS05 is the group time. 3: The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
Example:	GS*PS*150148617*123456789*20180209*1300*180000001*X*004010

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code** Code identifying a group of application related transaction sets **Code** **Name** PS Material Release (830)	M	ID	2/2	Must use
GS02	142	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	**Date** Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	**Time** 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)	M	TM	4/8	Must use
GS06	28	**Group Control Number** Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	**Responsible Agency Code** Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 **All valid standard codes are used.**	M	ID	1/2	Must use
GS08	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. **Code** **Name** 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use

Segment:	**ST** Transaction Set Header
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To Indicate the start of a transaction set and to assign a control number
Semantic:	The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate set definition
Example:	ST*830*8300001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set **Code** **Name** 830 Material Release	M	ID	3/3	Must use
ST02	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	M	AN	4/9	Must use

Segment:	**BFR** Beginning Segment for Material Release
Level:	**Header**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To indicate the beginning of the Material Release Transaction Set Whether a ship or delivery based forecast and related forecast envelope dates
Syntax:	1: R0203 – At least one of BFR02 or BFR03 is required
Semantic:	1: BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins 2: BFR08 is the date forecast generated
Example:	BFR*05**180209*DL*A*20180209**20180209 BFR*05**180209*SH*A*20180209**20180209

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BFR01	353	**Transaction set Purpose Code** Code identifying purpose of transaction set **Code** **Name** 05 Replacement 12 Test	M	ID	2/2	Must use
BFR03	328	**Release Number** Number Identifying a release against a purchase order	X	AN	1/30	Must use
BFR04	675	**Schedule type qualifier** Code identifying the types of dates used **Code** **Name** DL Delivery Based SH Shipment Based	M	ID	2/2	Must use
BFR05	676	**Schedule quantity Qualifier** Code identifying the type of quantities used in the FST segment **Code** **Name** A Actual Discrete Quantities	M	ID	1/1	Must use
BFR06	373	**Date** Date expressed as CCYYMMDD Note: Horizon start date	M	DT	8/8	Must use
BFR08	373	**Date** Date expressed as CCYYMMDD Note: Release date	M	DT	8/8	Must use

Segment:	**N1** Name
Level:	**Header**
Loop:	N1 **REPEAT:** 200
Usage:	**Mandatory**
Max Use:	1
Purpose:	To identify a party by type of organization, name ,and code
Syntax:	1: R0203 – At least one of N102 or N103 is required 2: P0304 – If either N103 or N104 is present, then the other is required
Example:	N1*SF*SUPPLIER NAME*92*123456 N1*ST*MUVIQ USA – SPRINGDALE*92*112

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **Code** **Name** ST Ship To SF Ship From	M	ID	2/3	Must use
N102	93	**Name** Free-form name	X	AN	1/60	Optional
N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **Code** **Name** 92 Plant Code or Vendor Code	X	ID	2/2	Must use
N104	67	**Identification Code** Code identifying a party or other code *Note:* *Vendor Code – Assigned by MUVIQ* *Buyer Plant Code – Assigned by MUVIQ*	X	AN	3/5	Must use

Segment:	**LIN** Item Identification
Level:	**Detail**
Loop:	LIN **REPEAT: >1**
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify basic item identification data
Syntax:	1 P0405 - If either LIN04 or LIN05 is present, then the other is required.
Example:	LIN*1*BP*BB1234*PO*112000187*EC*B

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	**Assigned Identification** Line Number	O	AN	1/20	Must use
LIN02	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service	M	ID	2/2	Must use
		Code **Name** BP Buyer's Part Number				
LIN03	234	**Product/Service ID** Identifying number for a product or service	M	AN	1/48	Must use
LIN04	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID	X	ID	2/2	Must use
		Code **Name** PO Purchase Order Number				
LIN05	234	**Product/Service ID** Identifying number for a product or service	X	AN	1/48	Must use
LIN06	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID	X	ID	2/2	Used
		Code **Name** EC Engineering Change Level				
LIN07	234	**Product/Service ID** Identifying number for a product or service	X	AN	1/48	Used

Segment:	**UIT** Unit of Measure
Level:	**Detail**
Loop:	LIN
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify the item unit data
Example:	UIT*EA

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
UIT01	355	**Unit of Measure code**	M	ID	2/2	Must use
		Note: *Use any acceptable code in the ASC X12 Data Element Dictionary.*				

Segment:	**SDP** Delivery Pattern
Level:	**Detail**
Loop:	LIN/SDP
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify delivery pattern
Example:	SDP*N*F

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDP01	678	**Delivery Type** Code identifying type delivery	M	ID	1/1	Must use
		Code **Name** N As directed				
SDP02	679	**Delivery Pattern Code** Code identifying the delivery pattern	M	ID	1/1	Must use
		Code **Name** F As directed				

Segment:	**FST** Forecast Schedule
Level:	**Detail**
Loop:	LIN/FST **REPEAT**: >1
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify the forecasted dates and quantities
Set Notes:	At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop
Comments:	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
Example:	FST*1000*C*D*20180212 FST*1025*C*D*20180213 FST*0*C*D*20180214 FST*900*C*D*20180215 FST*0*D*D*20180216 FST*3000*D*W*20180219 FST*3500*D*W*20180226 FST*12000*D*M*20180305

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FST01	380	**Quantity** Actual discrete quantity required	M	R	1/15	Must use
FST02	680	**Forecast Qualifier** Forecast type **Code** **Name** C Firm D Planning	M	R	1/1	Must use
FST03	681	**Forecast Period** Code specifying interval grouping of the forecast **Code** **Name** D Discrete Daily W Weekly Bucket M Monthly Bucket	M	ID	1/1	Must use
FST04	373	**Date** Date expressed as CCYYMMDD	M	DT	8/8	Must use

Segment:	**SHP** Shipped/received information
Level:	**Detail**
Loop:	LIN/SHP **REPEAT**: 25
Usage:	**Mandatory**
Max Use:	1
Purpose:	To specify shipment and/or receipt information
Syntax:	C0102 – if SHP01 is present then SHP02 is required L030405 – If SHP03 is present, then at least one of SHP04 or SHP05 is required C0403 - If SHP04 is present then SHP03 is required
Comments:	The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities and dates.
Example:	SHP*01*125*050*20180131 SHP*02*1500*051*20180131

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP01	673	**Quantity qualifier**	O	ID	2/2	Must use
		Code **Name** 1 Discrete Quantity 2 Cumulative Quantity				
SHP02	380	**Quantity** Numeric value of quantity	X	R	1/15	Must use
SHP03	374	**Date/Time qualifier**		ID	3/3	Must use
		Code **Name** 050 Received (discrete) date 051 Cumulative Quantity Start				
SHP04	373	**Date** Date expressed as CCYYMMDD Note: *SHP04 is the last receipt date if SHP03 = 050 or the cumulative starting quantity as of the starting CUM date if SHP03 = 051.*	X	DT	8/8	Must use

Segment:	**REF** Reference Numbers
Level:	**Detail - Shipment**
Loop:	LIN/SHP
Usage:	**Optional**
Max Use:	5
Purpose:	To specify identifying numbers.
Syntax:	If either REF01 or REF02 is present, then the other is required.
Example:	REF*SI*107605

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Number Qualifier** Code qualifying the Reference Number.	M	ID	2/2	Must use
		Code **Name** SI Shipper's Identifying Number for Shipment (SID/ASN number)				
REF02	127	**Reference Number** Reference number as specified by the Reference Number Qualifier.	X	AN	1/30	Must use

Segment:	**CTT** Transaction totals
Level:	**Summary**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Set Notes:	The number of line items (CTT01) is the accumulation of the number of LIN segments.
Example:	CTT*2

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items** Total number of line items in the transaction set	M	N0	1/6	Must use

Segment:	**SE** Transaction Set Trailer
Level:	**Summary**
Loop:	---
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)
Comment:	SE is the last segment of each transaction set.
Example:	SE*24*8300001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
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	M	AN	4/9	Must use

Segment:	**GE** Functional Group Trailer
Level:	**Summary**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To indicate the end of a functional group and to provide control information
Set Notes:	The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06
Example:	GE*24*180000001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	M	N0	1/6	Must use
GE02	28	**Group Control Number** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Segment:	**IEA** Interchange Control Trailer
Level:	**Summary**
Loop:	---
Usage:	**Mandatory**
Max Use:	1
Purpose:	To define the end of an interchange of zero or more functional groups and interchange-related control segments
Example:	IEA*1*180000001

Data Element Summary

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	**Interchange Control Number** A control number assigned by the interchange sender	M	N0	9/9	Must use