Montaplast of North America,Inc.

IMPLEMENTATION GUIDELINES FOR ASC X12 EDI CONVENTIONS
SHIPPING SCHEDULE (830)
VERSION/RELEASE 004010

Guideline Version 2.5.1
Issue Date 2012Feb08

Montaplast of North America, Inc.
2011 Hoover Boulevard
40601 FRANKFORT
USA

Data Format Specification:

Data Elements

Data elements and data segments can be classified differently in different transaction sets:

M	Mandatory
O	Optional
X	Conditional – depends on contents of other field or condition

All data elements are assigned minimum required and maximum permissible character lengths specified in the data element dictionary. If a data element is transmitted, it must meet minimum/maximum length requirements, regardless of the element's content.
Each data element has a defined data type specified in the data element dictionary. Data types include:

ID	Identification
R	Explicit
AN	Alphanumeric
DT	Date
TM	Time
4/10	Element Length 10, use at least 4

Table 1: Heading

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	1		
020	BFR	Beginning Segment for Planning Schedule	M	1		
030	PER	Administrative Communication Contact	O	1		
		LOOP ID - N1			200	
040	N1	Name	O	1		

Table 2: Detail

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
		LOOP ID - LIN			10000	
010	LIN	Item Identification	M	1		
020	UIT	Unit Detail	M	1		
030	PID	Product/Item Description	O	R		
040	REF	Reference Identification	O	12		
050	ATH	Resource Authorization	O	20		
		LOOP ID - FST			R	
060	FST	Forecast Schedule	O	1		
		LOOP ID - SHP			25	
070	SHP	Just-In-Time Schedule	O	1		
080	REF	Reference Identification	O	12		

Table 3: Summary

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	O	1		
020	SE	Transaction Set Trailer	M	1		

Segment: **ISA** **Interchange Control Header**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per interchange
Max Use: 1
Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes: **1.** The actual values of the data element separator and the data segment terminator for this interchange are set by the interchange control header. For a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the data segment terminator. The extent of this particular usage of the data element separator and the data segment separator terminator is from this header to and including the next interchange trailer.
The interchange control number value in ISA13 in this header must match the value in the same data element n the corresponding interchange control trailer in IEA02 .
Comments: The first occurrence of the data element separator (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk "*". The first occurrence of the segment terminator, 1 byte after the data element ISA16, defines the actual value of the data segment terminator and is graphically displayed as ~.
Example:

ISA*00* *00* *01*94868894 *ZZ*Supplier *110523*1058*U*00401*000000096*0*P*:~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
ISA01	**I01**	**Authorization Information Qualifier**	**M**	**ID 2/2**
		00 No Authorization Information Present		
ISA02	**I02**	**Authorization Information**	**M**	**AN 10/10**
		10 empty spaces must be entered here as the ISA segment is space sensitive.		
ISA03	**I03**	**Security Information Qualifier**	**M**	**ID 2/2**
		00 No Password		
ISA04	**I04**	**Security Information**	**M**	**ID 10/10**
		10 empty spaces must be entered here as the ISA segment is space sensitive.		
ISA05	**I05**	**Interchange ID Qualifier**	**M**	**ID 2/2**
		01 DUNS ZZ Mutually Defined		
ISA06	**I06**	**Interchange Sender ID**	**M**	**ID 15/15**
		948686894		
ISA07	**I05**	**Interchange ID Qualifier**	**M**	**ID 2/2**
		01 DUNS ZZ Mutually Defined		
ISA08	**I07**	**Interchange Receiver ID**	**M**	**ID 15/15**
		Left justify, space fill		
		Supplier		
ISA09	**I08**	**Interchange Date**	**M**	**DT 6/6**
		Date of creation		
ISA10	**I09**	**Interchange Time**	**M**	**TM 4/4**
		Time of creation		

ISA11	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**
		U United States		
ISA12	**I11**	**Interchange Control Version Number**	**M**	**ID 5/5**
		00401		
ISA13	**I12**	**Interchange Control Number**	**M**	**N0 9/9**
		A number that cannot be repeated within a 1 year period at a time		
ISA14	**I13**	**Acknowledgment Requested**	**M**	**ID 1/1**
		Use “0” for no Ack. Req., use “1” for Ack. Req.		
		0 No Acknowledgement requested		
ISA15	**I14**	**Test Indicator**	**M**	**ID 1/1**
		Use “T” for test data or “P” for production data		
ISA16	**I15**	**Component Element Separator**	**M**	**ID 1/1**

Segment: **GS** **Functional Group Header**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per functional group
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes: See the ASC X12 segment directory for rules and notes
Comments: Strict compliance and agreement on content by trading partners is required.
Example: **GS*PS*948686894*Supplier*20110523*1058*000000096*X*004010~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
GS01	**479**	**Functional Identifier Code**	**M**	**ID 2/2**
		PS **Planning Schedule with release Cabability**		
GS02	**142**	**Application Sender's Code**	**M**	**ID 2/15**
		948686894		
GS03	**124**	**Application Receiver's Code**	**M**	**ID 2/15**
		Supplier		
GS04	**373**	**Date**	**M**	**DT 8/8**
		Date Created		
GS05	**337**	**Time**	**M**	**TM 4/8**
		Time created		
GS06	**25**	**Group Control Number**	**M**	**N0 1/9**
		Start with 1 and increment by 1 for each subsequent GS segment		
GS07	**455**	**Responsible Agency Code**	**M**	**ID 1/2**
		Code used in conjunction with Data Element GS08 to identify the issuer of the standard		
		X **ASC X12 format**		
GS08	**480**	**Version/Release/Industry ID Code**	**M**	**ID 6/12**
		This code indicates the version, release and subrelease of the EDI standard being used, including the GS and GE segments. Positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version		
		004010 Draft Standard		

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes: **1.** The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 810 selects the Invoice Transaction Set).
Semantic Notes: The Transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE).
Comments:
Example: **ST*830*0001~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 830 Planning Schedule	**M ID 3/3**
ST02	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set.	**M AN 4/9**

Segment: **BFR** **Beginning Segment for Shipping Schedule/Production Sequence**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
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.** BFR02 is the identifying number for a forecast assigned by the orderer/purchaser
2. BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins
3. BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends
4. BFR08 is the date forecast generated: The date the forecast data was generated

Comments:
Example: **BFR*05*000000062**DL*A*20110501*20111231*20110414~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
BFR01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set **05 Replace**	**M**	**ID 2/2**
BFR02	**127**	**Reference Number** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **This number must be unique within a contractual agreement, i.e., a scheduling agreement**	**M**	**AN 1/30**
BFR04	**675**	**Schedule Type Qualifier** Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast **DL Delivery Based**	**M**	**ID 2/2**
BFR05	**676**	**Schedule Quantity Qualifier** Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast **A Actual Discrete Quantities**	**M**	**ID 2/2**
BFR06	**373**	**Forecast Start Date** Date (CCYYMMDD)	**M**	**DT 8/8**
BFR07	**373**	**Forecast End Date** Date (CCYYMMDD)	**O**	**DT 8/8**
BFR08	**373**	**Date Document Generated** Date (CCYYMMDD)	**M**	**DT 8/8**

Segment: **PER** **Administrative Communication Contact**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a person or office whom administrative communications should be directed
Syntax Notes: **1.** If PER03 is present, then PER04 is required
Semantic Notes:
Comments:
Example: **PER*BD*George xxxxx*EM*aaa@montaplast.com'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
PER01	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named **BD** **Buyer Name or Department**	**M**	**ID 2/2**
PER02	**93**	Name Free-form name	**O**	**AN 1/35**
PER03	**365**	Communication Number Qualifier Identifying number for a product or service **EM** **Electronic Mail**	**O**	**ID 2/2**
PER04	**364**	**Communication Number** Complete communication number	**O**	**AN 7/21**

Segment: **N1** **Name**
Position: 040
Loop: **N1**
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1.** 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. This N1 loop in the header area can be used to identify the shipping schedule issuer, the supplier, and the ship-to and ship-from locations.
Example: **N1*SF**92*12345~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual **SF** **Ship From** Party responsible for the material or service.	**M ID 2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **92** **Assigned By Buyer**	**X ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code. Montaplast uses a 5-digit supplier code	**X AN 2/20**

Segment: **N1** **Name**
Position: 040
Loop: **N1**
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1.** 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.

Example: **N1*ST**92*01~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual **ST** **Ship To** Location where the Material Release Issuer (MI) wants the Supplier (SU) to ship to.	**M ID 2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **92** **Assigned by Buyer**	**X ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code. Montaplast uses the following site codes: 01 = Montaplast Morsbach 08 = Montaplast Suzhou 09 = Montaplast Frankfort	**X AN 2/20**

Segment: **N1** **Name**
Position: 040
Loop: **N1**
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1.** 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.
.
Example: **N1*BY**92*01~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual **BY Buying party (purchaser)**	**M ID 2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **92 Assigned by Buyer**	**X ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code. Montaplast uses the following site codes: 01 = Montaplast Morsbach 08 = Montaplast Suzhou 09 = Montaplast Frankfort	**X AN 2/20**

Segment: **LIN** **Item Identification**
Position: 010
Loop: **LIN**
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
Semantic Notes: **1.** LIN01 is the item identification
Comments:
Example: **LIN*1*BP*4545454545*VP*676767676 PO*323232~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
LIN01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**M**	**ID 2/2**
LIN02	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **BP Buyer's Part Number**	**M**	**ID 2/2**
LIN03	**234**	**Product/Service ID - Buyer's Part** Identifying number for a product or service	**M**	**AN 1/40**
LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **VP Vendor’s Part Number**	**O**	**ID 2/2**
LIN05	**234**	**Product/Service ID – Line Item Number on Contract** Identifying number for a product or service	**O**	**AN 1/40**

Segment: **UIT** **Unit Detail**
Position: 020
Loop: **LIN**
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes:
Semantic Notes:
Comments:
Example: **UIT*EA~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
UIT01	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	**M ID 2/2**

Segment: **PID** **Product/Item Description**
Position: 030
Loop: **LIN**
Level: Detail
Usage: Optional
Max Use: R
Purpose: To describe a product or process
Syntax Notes:
Semantic Notes:
Comments:
Example: **PID*F****information~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PID01	**349**	**Item description Code** Code indicationg the format of a description **F Free Form**	**M ID 1/1**
PID05	**352**	**Description** Free-form text	**X AN 1/80**

Segment: **REF** **Reference Identification**
Position: 040
Loop: **LIN**
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments: **Used to convey the dock code**
Example: **REF*DK*1~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **DK Dock Number**	**M ID 2/3**
REF02	**127**	**Reference Identification - Dock Code** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: # ATH Resource Authorization
Position: 050
Loop: **LIN**
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify resource authorization (i.e. finished labor, material)
Syntax Notes: **1. At least one of ATH02 or ATH03 is required**
2. If ATH03 is present, then ATH05 is required
Semantic Notes:
Comments:
Example: **ATH*FI*110809*55**20110801~**
ATH*MT*110913*6620110901~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
ATH01	**672**	**Resource Authorization Code** Code identifying the resource which the buyer as authorizing the seller to commit to **FI Finished Fabrication** **MT Material**	**M**	**ID 2/3**
ATH02	**373**	**Cumulative quantity end date** Date (YYMMDD)	**M**	**DT 6/6**
ATH03	**380**	**Cumulative Quantity** Numeric value of quantity	**M**	**R 1/10**
ATH05	**373**	**Cumulative quantity start date** Date (YYMMDD)	**M**	**DT 6/6**

Segment: **FST** **Forecast Schedule**
Position: 060
Loop: **LIN/FST**
Level: Detail
Usage: Required
Max Use: 1
Purpose: To specify the forecasted dates and quantities
Syntax Notes: **1.** If either FST06 or FST07 is present, then the other is required
Semantic Notes:
Comments: **1.** Firm discrete quantities daily
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.
3. At least one FST loop is required

Example: **FST*300*C*D*20110602**002*0800~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
FST01	**380**	**Net Quantity** Numeric value of quantity	**M R 1/15**
FST02	**680**	**Forecast Qualifier** Code specifying the sender's confidence level of the forecast data or an action associated with a forecast **D Planning** **C Firm**	**M ID 1/1**
FST03	**681**	**Forecast Timing Qualifier** Code specifying interval grouping of the forecast **M Monthly** **W Weekly** **D Discrete**	**M ID 1/1**
FST04	**373**	**Schedule Line Date From** Date (CCYYMMDD)	**M DT 8/8**
FST05	**373**	**Schedule Line Date to** Date (CCYYMMDD)	**O DT 8/8**

Segment: **SHP** **Shipped/Received Information**
Position: 070
Loop: **LIN/SHP**
Level: Detail
Usage: Required
Max Use: 1
Purpose: To specify shipment and/or receipt information
Syntax Notes: 1. If SHP01 is present, then SHP02 is required
2. If SHP03 is present, then SHP04 is required

Semantic Notes: This segment is used to give information on either the last shipment shipped or cumulative quantity shipped to date
Comments: **1**. The SHP-Segment is used to communicate shipment, delivery, or receipt information and many include discrete or cumulative quantities and dates

Example: **SHP*01*66*011*20110501~**
SHP*02*88888~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
SHP01	**673**	**Quantity qualifier** Code specitying the type of quantity **01** **Discrete Quantity** **02** **Cumulative Quantity**	**M**	**ID 2/2**
SHP02	**380**	**Quantity** Numeric value of quantity	**M**	**R 1/10**
SHP03	**374**	**Date/Time Qualifier** Code specifying interval grouping of the forecast **011** **Shipped**	**O**	**ID 3/3**
SHP04	**373**	**Date** Date (CCYYMMDD)	**O**	**DT 8/8**

Segment: **REF** **Reference Identification**
Position: 080
Loop: **LIN /SHP**
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying numbers
Syntax Notes:
Semantic Notes:
Comments:
Example: **REF*SI*12345678~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M ID 2/3**
		SI **Shippers Identifying Number for Shipment (SID). A unique number (to the shipper) assigned by the shipper to identify the shipment**	
REF02	**127**	**Reference Identification - Dock Code** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: **Summary**
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
Semantic Notes:
Comments: **1.** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Example: **CTT*1~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	**354**	**Number of Line Items** Total number of line items (LIN segments) in the transaction set	**M N0 1/6**

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.
2. The Transaction Set Control Number value in this trailer must match the same element value in the Transaction Set Header (ST02).
Example: **SE*45*0003~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
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**

Segment: **GE** **Functional Group Trailer**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per functional group
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic 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).
Comments:
Example: **GE*1*31~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	**97**	**Number of Transaction Sets Included** Total number of ST segments in group	**M N0 1/6**
GE02	**28**	**Group Control Number** Must be identical to the same data element in the associated group header (GS06)	**M N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per Interchange
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes: The interchange control number IEA02 in this trailer must match the value in ISA13
Comments:
Example: **IEA*1*000000031~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
IEA01	**I16**	**Number of Included Functional Groups** Number of GS segments included between ISA and this IEA	**M**	**N0 1/5**
IEA02	**I12**	**Interchange Control Number** Must match ISA13	**M**	**N0 9/9**

Example 1 EDI Structure

EDI FORMAT	**INTERPRETATION**
ST*830*0003~	X12 Transaction Set = 862 (Shipping Schedule) Transaction Set Control Number = 0030
BFR*05*000000062**DL*A*20110501*20111231*20110414~	Transaction Set Purpose = 05 (Replace) Unique Reference Number = 000000062 Current Date = 14/04/2011 Delivery Based Actual discrete quantities Horizon Start Date = 05/01/2011 Horizon End Date = 12/31/2011 Actual discrete quantities
PER*BD*George xxx*EM*aaa@montaplast.com~ N1*SF**92*12345~	Communication Name = George xxx Electronic Mail = aaa@montaplast.com Ship From ID Code Number = 12345
N1*ST**92*01~	Ship To ID Plant Code Number = 01
LIN*1*BP*4545454545*VP*676767676 ~	Customer-assigned Part Number 4545454545 Vendor-assigned PartNumber 676767676
UIT*EA~	Unit of Measure = Each
PID*F****information~ REF*DK*1~	Free text= information Dock number = 1
ATH*FI*20110809*55**20110801~	Finished Fabrication: Start date= 08/11/01 End date= 08/11/09 Quantity= 55
FST*3000*D*M*20110602*20111331~	Quantity =3000 Schedule Line Date From = 06/02/2011 Schedule Line Date To = 12/31/2011
SHP*02*120000~	Shipped Cumulative Quantity = 120000
SHP*01*800*011*20110412~	Last Shipped Quantity = 800 Last Shipped Date = 04/12/2011
REF*SI*12345678~	Last Shippers Identify Number = 12345678
CTT*1~	Total number of Lin Items = 1
SE*31*0003~	Total Number of Segments = 31 Transaction Set Control Number = 0003

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ID	Identification
R	Explicit
AN	Alphanumeric
DT	Date
TM	Time
4/10	Element Length 10, use at least 4

Table 1: Heading

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	1		
020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
		LOOP ID - N1			200	
030	N1	Name	O	1		

Table 2: Detail

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
		LOOP ID - LIN			10000	
010	LIN	Item Identification	M	1		
020	UIT	Unit Detail	M	1		
030	PKG	Marking, Packaging, Loading	O	R		
040	REF	Reference Identification	O	12		
050	FST	Forecast Schedule	O	1		
		LOOP ID - SHP			10	
060	SHP	Just-In-Time Schedule	O	1		
070	REF	Reference Identification	O	12		

Table 3: Summary

Pos. No.	Seg. ID	Name	Req.	Max. Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	O	1		
020	SE	Transaction Set Trailer	M	1		

Segment: **ISA** **Interchange Control Header**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per interchange
Max Use: 1
Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes: **1.** The actual values of the data element separator and the data segment terminator for this interchange are set by the interchange control header. For a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the data segment terminator. The extent of this particular usage of the data element separator and the data segment separator terminator is from this header to and including the next interchange trailer.
The interchange control number value in ISA13 in this header must match the value in the same data element n the corresponding interchange control trailer in IEA02 .
Comments: The first occurrence of the data element separator (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk "*". The first occurrence of the segment terminator, 1 byte after the data element ISA16, defines the actual value of the data segment terminator and is graphically displayed as ~.
Example:
ISA*00* *00* *01*948686894 *ZZ*Supplier *110523*1058*U*00401*000000096*0*P*:~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	**I01**	**Authorization Information Qualifier**	**M ID 2/2**
		00 No Authorization Information Present	
ISA02	**I02**	**Authorization Information**	**M AN 10/10**
		10 empty spaces must be entered here as the ISA segment is space sensitive.	
ISA03	**I03**	**Security Information Qualifier**	**M ID 2/2**
		00 No Password	
ISA04	**I04**	**Security Information**	**M ID 10/10**
		10 empty spaces must be entered here as the ISA segment is space sensitive.	
ISA05	**I05**	**Interchange ID Qualifier**	**M ID 2/2**
		01 DUNS ZZ Mutually Defined	
ISA06	**I06**	**Interchange Sender ID**	**M ID 15/15**
		948686894	
ISA07	**I05**	**Interchange ID Qualifier**	**M ID 2/2**
		01 DUNS ZZ Mutually Defined	
ISA08	**I07**	**Interchange Receiver ID**	**M ID 15/15**
		Left justify, space fill	
		Supplier	
ISA09	**I08**	**Interchange Date**	**M DT 6/6**
		Date of creation	
ISA10	**I09**	**Interchange Time**	**M TM 4/4**
		Time of creation	

ISA11	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**
		U United States		
ISA12	**I11**	**Interchange Control Version Number**	**M**	**ID 5/5**
		00401		
ISA13	**I12**	**Interchange Control Number**	**M**	**N0 9/9**
		A number that cannot be repeated within a 1 year period at a time		
ISA14	**I13**	**Acknowledgment Requested**	**M**	**ID 1/1**
		Use “0” for no Ack. Req., use “1” for Ack. Req.		
		0 No Acknowledgement requested		
ISA15	**I14**	**Test Indicator**	**M**	**ID 1/1**
		Use “T” for test data or “P” for production data		
ISA16	**I15**	**Component Element Separator**	**M**	**ID 1/1**

Segment: **GS** **Functional Group Header**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per functional group
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes: See the ASC X12 segment directory for rules and notes
Comments: Strict compliance and agreement on content by trading partners is required.
Example: **GS*SS*948686894*Supplier*20110523*1058*000000096*X*004010~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
GS01	**479**	**Functional Identifier Code**	**M**	**ID 2/2**
		SS Shipping Schedule		
GS02	**142**	**Application Sender's Code**	**M**	**ID 2/15**
		948686894		
GS03	**124**	**Application Receiver's Code**	**M**	**ID 2/15**
		Supplier		
GS04	**373**	**Date**	**M**	**DT 8/8**
		Date Created		
GS05	**337**	**Time**	**M**	**TM 4/8**
		Time created		
GS06	**25**	**Group Control Number**	**M**	**N0 1/9**
		Start with 1 and increment by 1 for each subsequent GS segment		
GS07	**455**	**Responsible Agency Code**	**M**	**ID 1/2**
		Code used in conjunction with Data Element GS08 to identify the issuer of the standard		
		X ASC X12 format		
GS08	**480**	**Version/Release/Industry ID Code**	**M**	**ID 6/12**
		This code indicates the version, release and subrelease of the EDI standard being used, including the GS and GE segments. Positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version		
		004010 Draft Standard		

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes: **1.** The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 810 selects the Invoice Transaction Set).
Semantic Notes: The Transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE).
Comments:
Example: **ST*862*0001~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 862 Shipping Schedule	**M ID 3/3**
ST02	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set.	**M AN 4/9**

Segment: **BSS** **Beginning Segment for Shipping Schedule/Production Sequence**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes:
Semantic Notes: **1**. Use BSS02 to indicate a document number
2. Use BSS03 to indicate the date of this document
3. Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins)
4. Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends)
5. BSS10 is the identifying number for a forecast assigned by the orderer/purchaser
Comments:
Example: **BSS*02*098704*20110414*DL*20110519*20110608****777777*A~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
BSS01	**353**	**Transaction Set Purpose Code** Code identifying purpose of trasaction set **01** **Cancellation** **02** **Add** **05** **Replace**	**M**	**ID 2/2**
BSS02	**127**	**Reference Number** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**	**AN 1/30**
BSS03	**373**	**Issue Date** Date (CCYYMMDD)	**M**	**DT 8/8**
BSS04	**675**	**Schedule Type Qualifier** Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast **DL** **Delivery Based** Specifies when the material must be at the receiving location.	**M**	**ID 2/2**
BSS05	**373**	**Horizon Start Date** Date (CCYYMMDD)	**M**	**DT 8/8**
BSS06	**373**	**Horizon End Date** Date (CCYYMMDD)	**M**	**DT 8/8**
BSS11	**676**	**Schedule Quantity Qualifier** Code identifying the type of quantities used when defining a schedule or forecast **A** **Actual Discrete Quantities**	**O**	**ID 1/1**

Segment: **N1** **Name**
Position: 040
Loop: **N1**
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1.** 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. This N1 loop in the header area can be used to identify the shipping schedule issuer, the supplier, and the ship-to and ship-from locations.
Example: N1*SF**92*12345~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual **SF** **Ship From** Party responsible for the material or service.	**M ID 2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **92** **Assigned By Buyer**	**X ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code. Montaplast uses a 5-digit supplier code	**X AN 2/20**

Segment: **N1** **Name**
Position: 040
Loop: **N1**
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1.** 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.

Example: **N1*ST**92*01~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual **ST** **Ship To** Location where the Material Release Issuer (MI) wants the Supplier (SU) to ship to.	**M ID 2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **92** **Assigned by Buyer**	**X ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code. Montaplast uses the following site codes: 01 = Montaplast Morsbach 08 = Montaplast Suzhou 09 = Montaplast Frankfort	**X AN 2/20**

Segment: **N1** **Name**
Position: 040
Loop: **N1**
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1.** 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.

Example: **N1*BY**92*01~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual **BY Bying Party**	**M ID 2/2**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **92 Assigned by Buyer**	**X ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code. Montaplast uses the following site codes: 01 = Montaplast Morsbach 08 = Montaplast Suzhou 09 = Montaplast Frankfort	**X AN 2/20**

Segment: **LIN** **Item Identification**
Position: 010
Loop: **LIN**
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
Semantic Notes: **1.** LIN01 is the item identification
Comments:
Example: **LIN*1*BP*4545454545*VP*676767676~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
LIN01	**350**	**Assigned Identification**	**M**	**ID 2/2**
		Alphanumeric characters assigned for differentiation within a transaction set		
LIN02	**235**	**Product/Service ID Qualifier**	**M**	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BP Buyer's Part Number		
LIN03	**234**	**Product/Service ID - Buyer's Part**	**M**	**AN 1/40**
		Identifying number for a product or service		
LIN04	**235**	**Product/Service ID Qualifier**	**O**	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		VP Vendor’s Part Number		
LIN05	**234**	**Product/Service ID – Line Item Number on Contract**	**O**	**AN 1/40**
		Identifying number for a product or service		

Segment: **UIT** **Unit Detail**
Position: 020
Loop: **LIN**
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes:
Semantic Notes:
Comments:
Example: **UIT*EA~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
UIT01	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. **EA Each**	**M ID 2/2**

Segment: **PKG** **Marking, Packaging, Loading**
Position: 030
Loop: **LIN**
Level: Detail
Usage: Optional
Max Use: R
Purpose: To describe marking, packaging, loading and unloading requirements
Syntax Notes:
Semantic Notes:
Comments:
Example: **PKG*F****information~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PKG01	**349**	**Item description Code** Code indicationg the format of a description **F Free Form**	**M ID 1/1**
PKG05	**352**	**Description** Free-form text	**X AN 1/80**

Segment: **REF** **Reference Identification**
Position: 040
Loop: **LIN**
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments: **Used to convey the dock code**
Example: **REF*DK*1~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **DK Dock Number**	**M ID 2/3**
REF02	**127**	**Reference Identification - Dock Code** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **FST** **Forecast Schedule**
Position: 050
Loop: **LIN/FST**
Level: Detail
Usage: Required
Max Use: 1
Purpose: To specify the forecasted dates and quantities
Syntax Notes: **1.** If either FST06 or FST07 is present, then the other is required
Semantic Notes:
Comments: **1.** Firm discrete quantities daily
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.
3. At least one FST loop is required

Example: **FST*300*C*D*20110602**002*0800~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
FST01	**380**	**Net Quantity** Numeric value of quantity	**M**	**R 1/15**
FST02	**680**	**Forecast Qualifier** Code specifying the sender's confidence level of the forecast data or an action associated with a forecast **C Firm**	**M**	**ID 1/1**
FST03	**681**	**Forecast Timing Qualifier** Code specifying interval grouping of the forecast **D Discrete**	**M**	**ID 1/1**
FST04	**373**	**Requirement Date** Date (CCYYMMDD)	**M**	**DT 8/8**
FST06	**374**	**Requirement Date/Time Qualifier** Code specifying type of date or time, or both date and time **002 Delivery Requested**	**O**	**ID 3/3**
FST07	**337**	**Requirement Time** Time of shipment or delivery when only one shipment is made on a given day. Time expressed in 24-hour clock time as follows: HHMM where HH = hours (00-23), MM = minutes (00-59)	**X**	**TM 4/8**

Segment: **SHP** **Shipped/Received Information**
Position: 060
Loop: **LIN/SHP**
Level: Detail
Usage: Required
Max Use: 1
Purpose: To specify shipment and/or receipt information
Syntax Notes: 1. If SHP01 is present, then SHP02 is required
2. If SHP03 is present, then SHP04 is required

Semantic Notes: This segment is used to give information on either the last shipment shipped or cumulative quantity shipped to date
Comments: **1**. The SHP-Segment is used to communicate shipment, delivery, or receipt information and many include discrete or cumulative quantities and dates

Example: **SHP*01*66*011*20110501~**
SHP*02*88888~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SHP01	**673**	**Quantity qualifier** Code specitying the type of quantity **01** **Discrete Quantity** **02** **Cumulative Quantity**	**M ID 2/2**
SHP02	**380**	**Quantity** Numeric value of quantity	**M R 1/10**
SHP03	**374**	**Date/Time Qualifier** Code specifying interval grouping of the forecast **011** **Shipped**	**O ID 3/3**
SHP04	**373**	**Date** Date (CCYYMMDD)	**O DT 8/8**

Segment: **REF** **Reference Identification**
Position: 070
Loop: **LIN** /SHP
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying numbers
Syntax Notes:
Semantic Notes:
Comments:
Example: **REF*SI*12345678~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M ID 2/3**
		SI **Shippers Identifying Number for Shipment (SID). A unique number (to the shipper) assigned by the shipper to identify the shipment**	
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: **Summary**
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
Semantic Notes:
Comments: **1.** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Example: **CTT*1~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	**354**	**Number of Line Items** Total number of line items (LIN segments) in the transaction set	**M N0 1/6**

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.
2. The Transaction Set Control Number value in this trailer must match the same element value in the Transaction Set Header (ST02).
Example: **SE*45*0003~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
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**

Segment: **GE** **Functional Group Trailer**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per functional group
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic 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).
Comments:
Example: **GE*1*31~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	**97**	**Number of Transaction Sets Included** Total number of ST segments in group	**M N0 1/6**
GE02	**28**	**Group Control Number** Must be identical to the same data element in the associated group header (GS06)	**M N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position:
Loop:
Level: N/A
Usage: Mandatory 1 per Interchange
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes: The interchange control number IEA02 in this trailer must match the value in ISA13
Comments:
Example: **IEA*1*000000031~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
IEA01	**I16**	**Number of Included Functional Groups** Number of GS segments included between ISA and this IEA	**M**	**N0 1/5**
IEA02	**I12**	**Interchange Control Number** Must match ISA13	**M**	**N0 9/9**

Example 1 EDI Structure

EDI FORMAT	**INTERPRETATION**
ST*862*0003~	X12 Transaction Set = 862 (Shipping Schedule) Transaction Set Control Number = 0030
BSS*02*098704*20110414*DL*20110519*20110608*****A~	Transaction Set Purpose = 02 (ADD) Unique Reference Number = 098704 Current Date = 04/14/2011 Delivery Based Horizon Start Date = 05/19/2011 Horizon End Date = 06/08/2011 Actual discrete quantities
N1*BY**92*01~	Buyer/Purchaser ID Code number = 01
N1*SF**92*12345~	Ship From ID Code Number = 12345
N1*ST**92*01~	Ship To ID Plant Code Number = 01
LIN*1*BP*4545454545*VP*676767676~	Customer-assigned Part Number 4545454545 Vendor-assigned PartNumber 676767676
UIT*EA~	Unit of Measure = Each
PKG*F****information~	Free Text= information
REF*DK*1~	Dock number Identify Number = 1
FST*300*C*D*20110602**002*0800~	Daily Firm Shipment Quantity =3000 Shipment Date = 06/02/2011 Shipment Time = 0800 Delivery requested
SHP*02*120000~	Shipped Cumulative Quantity = 120000
SHP*01*800*011*20110412~	Last Shipped Quantity = 800 Last Shipped Date = 04/12/2011
REF*SI*12345678~	Last Shippers Identify Number = 12345678
CTT*1~	Total number of Lin Items = 1
SE*31*0003~	Total Number of Segments = 31 Transaction Set Control Number = 0003