Montaplast of North America,Inc.

IMPLEMENTATION GUIDELINES FOR ASC X12 EDI CONVENTIONS
SHIPPING SCHEDULE (862)
VERSION/RELEASE 004010

Guideline Version 2.4
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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	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
030	NTE	Note/Special instruction	O	100		
		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	REF	Reference Identification	O	12		
		LOOP ID - FST			100	
040	FST	Forecast Schedule	O	1		
		LOOP ID - SHP			96	
050	SHP	Just-In-Time Schedule	O	1		
060	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* *ZZ*721457 *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	
ISA06	**I06**	**Interchange Sender ID**	**M ID 15/15**
		948686894	
ISA07	**I05**	**Interchange ID Qualifier**	**M ID 2/2**
		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*721457*supplier*110523*1058*96*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**
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*110414*DL*110519*110608****777777*A~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
BSS01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set **02** **Add** **05** **Replace** **01** **Cancellation**	**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**
BSS10	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	**M**	**AN 1/30**
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: **NTE** **Note/Special instruction**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit Information in a free-form format
Syntax Notes:
Semantic Notes:
Comments:
Example: **NTE*ZZZ*information~**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
NTE01	**363**	**Nore Reference Code** Code identifying an organizational entity, a physical location, or an individual **ZZZ Mutually Defined**	**M ID 2/2**
NTE02	**3**	**Free Form Message** Free-form text	**X AN 1/60**

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*345678~

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	**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*1~**

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	**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***721457~

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** 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	**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** 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. **EA Each**	**M ID 2/2**

Segment: **REF** **Reference Identification**
Position: 030
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: 040
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: 050
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: 060
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*110414*DL*110519*110608****777777*A~	Transaction Set Purpose = 02 (ADD) Unique Reference Number = 098704 Current Date = 14/04/2011 Delivery Based Horizon Start Date = 05/19/2011 Horizon End Date = 06/08/2011 Purchase Order Number = 7777777 Actual discrete quantities
NTE*ZZZ*information~	Free Text= information
N1*BY**92*721457~	Buyer/Purchaser ID Code number = 721457
N1*SF**92*345678~	Ship From ID Code Number = 345678
N1*ST**92*1~	Ship To ID Plant Code Number = 1
LIN*1*BP*4545454545*VP*676767676~	Customer-assigned Part Number 4545454545 Vendor-assigned PartNumber 676767676
UIT*EA~	Unit of Measure = Each
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