

Toledo Molding & Die, LLC
EDI Document Specification

830: Release with Planning Capability *Outbound from TMD to Vendor*

Please note the following additions/changes:

BFR10 – this d.e.# will now be used (contract number)

7/24/02 Changes

ISA05 I05 Interchange ID Qualifier
TMD will use “ZZ”

ISA06 I06 Interchange Sender ID
D-U-N-S number of the sending plant + TMD.

10/4/02 Change:

ATH05 373 Not Used.

9/15/05 Changes:

FST02 can be ‘C’ or ‘D’. TMD will send either “firm” or “planning” weekly FST segments. (Please note that in the short term it may be possible to see firm, daily FST segments in your 830 releases. This is due to the way our ERP software generates the codes. We are currently implementing changes to our software to eliminate this.)

5/25/06 Changes:

FST02 will be ‘D’ (planning) from this day forward. ‘C’ (confirmed) has been eliminated (see 9/15/05 changes above).

FST03 will be ‘W’ (weekly). Firm daily requirements have been eliminated from the 830 schedule.

9/20/07 Change:

Removed the “+ in-transit” from the SHP*02* example

10/24/07 Changed documentation for the SHP segment to clarify that when SHP01 = ‘02’ and SHP02 = ‘0’, then SHP03 and SHP04 will not be sent.
(ex- SHP*02*0)

Additional changes are noted in the text by red color.

10/02/08 Changes:

Updated TMD contacts and/or phone numbers.

02/11/2010 Change:

Removed Elba.

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Note: These requirements may be subject to change. For questions concerning this document please contact me:

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Note: This document replaces any previous 830 document sent to you.
This document is meant for technical reference only.

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TMD will use AIAG Version 004 . Release 010 of the 830 document.

Transmission schedule: Will vary by TMD plant and program.

Data Types under Attributes:

Nn numeric with n specified decimal places

R explicit

AN alphanumeric

DT date

TM time

ID identification

Segment: ISA Interchange Control Header

Level: N/A

Loop: _____

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. The transmission envelope.

Example: ISA*00* *00* *ZZ*071107452TMD *1*609158415 *990113 *0937
 *U*00401*000016912*0*P*~*

Note: Values are controlled by Trading Partnership File Setup in Harbinger EDI/400.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
ISA01	I01	Authorization Information Qualifier Use "00"	M ID 2/2
ISA02	I02	Authorization Information Use ten spaces	M AN 10/10
ISA03	I03	Security Information Qualifier Not used	M ID 2/2
ISA04	I04	Security Information Not used	M AN 10/10
ISA05	I05	Interchange ID Qualifier TMD will use "ZZ" (see ISA06)	M ID 2/2
ISA06	I06	Interchange Sender ID D-U-N-S number of the sending plant + TMD. Suppress internal dashes and spaces. Left justify.	M ID 15/15

TMD plant Sender ID numbers:

Bowling Green 021046771TMD
Delphos II 838509636TMD
Laskey 091910435TMD
Phillips 185571705TMD
Tiffin 131978590TMD

ISA07 I05	Interchange ID Qualifier Use “01” if supplier has a D-U-N-S Possible: “ZZ” (see ISA08)	M ID 2/2
ISA08 I07	Interchange Receiver ID Supplier D-U-N-S number. Suppress internal dashes and spaces. Left justify. TMD will use a supplier code for those who do not have a D-U-N-S. Suppliers can register for free D-U-N-S number at www.dnb.com or by calling 1.800.333.0505.	M ID 15/15
ISA09 I08	Interchange Date Date of creation. YYMMDD	M DT 6/6
ISA10 I09	Interchange Time Time of creation	M TM 4/4
ISA11 I10	Interchange Control Standards Identifier Use “U” for U.S.	M ID 1/1
ISA12 I11	Interchange Control Version Number Use “00401”	M ID 5/5
ISA13 I12	Interchange Control Number A number that cannot be repeated within a 1 year period at a time	M N0 9/9
ISA14 I13	Acknowledgment Requested Use “0” for no Ack. Req., use “1” for Ack. Req.	M ID 1/1
ISA15 I14	Test Indicator Use “T” for test data or “P” for production data	M ID 1/1
ISA16 I15	Component Element Separator	M AN 1/1

[Heading Level:](#)

Segment: **GS Functional Group Header**

Level: N/A

Loop: as required

Usage: Mandatory 1 per functional group

Max Use: 1

Purpose: To indicate the beginning of a functional group and to provide control information. Isolates one group of similar business documents from another.

Notes: See the ASC X12 segment directory for rules and notes.

Strict compliance and agreement on content by trading partners is required.

The GS/GE envelope isolates one group of similar business documents from another. Several dissimilar types of business documents can be stacked one behind another in an interchange envelope, each group in its own GS/GE envelope. A count is kept of the number of groups of business documents (GS/GE segments) stacked together in an interchange envelope and is placed in the IEA01 element.

Example: **GS*PS*071107452TMD*609158415*19990106*0914*000016460*X*003010***

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
GS01	479	Functional Identifier Code TMD will use 'PS' (purchase schedule).	M ID 2/2
GS02	142	Application Sender's Code TMD Sending Plant D-U-N-S number + TMD TMD plant Sender's Codes are: Bowling Green 021046771TMD Delphos II 838509636TMD Laskey 091910435TMD Tiffin 131978590TMD	M ID 2/15

GS03	124	Application Receiver's Code This code should match the receiver code in the ISA segment. Use supplier plant D-U-N-S number TMD will use a supplier code for those who do not have a D-U-N-S. Suppliers can register for free D-U-N-S number at www.dnb.com or by calling 1.800.333.0505	M ID 2/15
GS04	29	Date Date created. CCYYMMDD	M DT 8/8
GS05	30	Time Time (HHMM) when the sender generated the Transaction sets (local time at sender's location)	M TM 4/8
GS06	28	Group Control Number Number assigned and maintained by sender Start with 1 and increment by 1 for each subsequent GS segment.	M NO 1/9
GS07	455	Responsible Agency Code Code used in with D.E. 480 to identify the Issuer of the standard. Use 'X' (ANSI X12).	M ID 1/2
GS08	408	Version/Release/ Industry Code Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Pos 1-3 = version number, pos 4-6 = release and subrelease level of version, 7-12 = industry or trade association identifier. TMD will use ' 004010 '.	M ID 1/12

Segment: ST Transaction Set Header

Level: Header

Usage: Mandatory

Max Use: 1

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

Semantic: 1 The transaction set identifier (ST01) used by the translation routines of the Interchange partners to select the appropriate transaction set definition (e.g., 856 selects the Advanced Ship Notice Transaction Set).

Notes: The Transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE).

[Example: ST*830*nnnnnnn](#)

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
ST01	143	Transaction Set Identifier Code ID Code uniquely identifying a Transaction Set Planning Schedule with Release Capability	M ID 3/3
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. This number must match the value in SE02.	M AN 4/9

Segment: BFR Beginning Segment for Planning Schedule

Level: Header

Loop: _____

Usage: Mandatory

Required

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

Notes: The intent of this segment is to provide information for the entire transaction. Some of this information may be overridden by subsequent segments in the transaction.

Example: BFR*05**624-3*SH*C*19980801*19990704*19990104*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
BFR01	353	Transaction Set Purpose Code ID Code identifying purpose of transaction set. TMD will use '05'. CODE DEFINITION 00 Original 04 Change 05 Replace Use '05'	M I/D 2/2
BFR02	127	Reference Identification 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 model year. Not used.	X AN 1/30
BFR03	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. This number must be unique within a contractual agreement, i.e., a model year. A sequential non-repeating number. This number will be used for both 830s and 862s.	X 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	M ID 2/2

or forecast. (“SH” = shipment based, “DL” = delivery based,
 “BB” = broadcast).
 TMD will use “SH”.

BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast. TMD will use “A” (Actual Discrete Quantities).	M	ID 1/1
BFR06	373	Forecast horizon start date. Expressed as CCYYMMDD	M	DT 8/8
BFR07	373	Horizon end date. Expressed as CCYYMMDD	O	DT 8/8
BFR08	373	Forecast generation date. Expressed as CCYYMMDDD.	M	DT 8/8
BFR09	373	Not used. The date the forecast was updated with “net change” data. Expressed as CCYYMMDD.	O	DT 8/8
BFR10	367	Contract Number.	O	AN 1/30
BFR11	324	Not used. Purchase Order Number. Identifying number for Purchase Order assigned by the orderer/purchaser If there is only one purchase order number for the entire release, use PO Number, otherwise put the PO number in the LIN segment.	O	AN 1/22
BFR12	783	Not used. Planning Schedule Type Code. Code identifying type of planning schedule used.	O	ID 2/2
BFR13	306	Not used. Action Code Code indicating type of action	O	ID 1/2

Segment: N1 Name

Level: Header

Usage: Optional

Max Use: 1

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

Loop: N1 Repeat: 200

Syntax: R0203 - At least one of N102 or N103 is required.

P0304 - If either N103 or N104 is present, then the other is required.

Comments: 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. N105 and N106 further define the type of entity in N101.

Note: TMD will send three N1 segments: 'MI', 'ST', and 'SF'.

[Material Release Issuer example:](#)

N1*MI*Toledo Molding & Die Inc., DELPHOS PLANT II*1*609158415*

N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location. (ST = ship to, BT = bill to, SF = ship from, MI = planning schedule/material release issuer , SU = supplier/manufacturer.) TMD will use 'ST'.	M ID 2/3
N102	93	Name The material release issuer name shall be the text string 'Toledo Molding & Die Inc.,'.	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). '1' = D-U-N-S Number (Dun & Bradstreet), 'ZZ' = mutually defined. TMD will use '1'.	X ID 1/2
N104	67	Identification Code Code identifying a party or other code. Suppress internal dashes and spaces. TMD issuing plant D-U-N-S Number	X AN 2/80
N105	706	Entity Relationship Code Code describing entity relationship. Not used.	O ID 2/2

N106 98

Entity Identifier Code

O ID 2/3

Code identifying an organizational entity, a physical location, property or an individual.
Not used.

[Ship to example: N1*ST**1*609158415*](#)

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location. (ST = ship to, BT = bill to, SF = ship from, MI = planning schedule/material release issuer, SU = supplier/manufacturer. TMD will use 'ST').	M ID 2/3
N102	93	Name Free-form name. Not used.	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). '1' = D-U-N-S Number (Dun & Bradstreet), '92' = assigned by buyer. TMD will use '1'.	X ID 1/2
N104	67	Identification Code Code identifying a party or other code TMD plant D-U-N-S Number TMD plant D-U-N-S numbers are: Bowling Green 021046771 Delphos II 838509636 Laskey 091910435 Tiffin 131978590	X AN 2/80
N105	706	Entity Relationship Code Code describing entity relationship. Not used.	O ID 2/2
N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Not used.	O ID 2/3

[Ship from example: N1*Sf**01*nn*:](#)

N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location. (ST = ship to, BT = bill to, SF = ship from, MI = planning schedule/material release issuer, SU = supplier/manufacturer. TMD will use 'SF').	M ID 2/3
N102	93	Name Free-form name. Not used.	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). '1' = D-U-N-S Number (Dun & Bradstreet), '92' = assigned by buyer. TMD will use '92' if vendor has no D-U-N-S number. TMD will use '1' if vendor has D-U-N-S number.	X ID 1/2
N104	67	Identification Code Code identifying a party or other code. Ship from supplier plant D-U-N-S number. Suppress internal dashes and spaces. If N103 = '92' use the 8 digit JBA vendor ID . If N103 = '1' use the D-U-N-S number .	X AN 2/80
N105	706	Entity Relationship Code Code describing entity relationship. Not used.	O ID 2/2
N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual. Not used.	O ID 2/3

[End of Heading Level:](#)

[Begin Detail Level:](#)

Segment: LIN Item Identification

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification data

Loop: LIN Repeat: >1

- Syntax:**
- 1 P0405 - If either LIN04 or LIN05 is present, then the other is required.
 - 2 P0607 - If either LIN06 or LIN07 is present, then the other is required.
 - 3 P0809 - If either LIN08 or LIN09 is present, then the other is required.
 - 4 P1011 - If either LIN10 or LIN11 is present, then the other is required.
 - 5 P1213 - If either LIN12 or LIN13 is present, then the other is required.
 - 6 P1415 - If either LIN14 or LIN15 is present, then the other is required.
 - 7 P1617 - If either LIN16 or LIN17 is present, then the other is required.
 - 8 P1819 - If either LIN18 or LIN19 is present, then the other is required.
 - 9 P2021 - If either LIN20 or LIN21 is present, then the other is required.
 - 10 P2223 - If either LIN22 or LIN23 is present, then the other is required.
 - 11 P2425 - If either LIN24 or LIN25 is present, then the other is required.
 - 12 P2627 - If either LIN26 or LIN27 is present, then the other is required.
 - 13 P2829 - If either LIN28 or LIN29 is present, then the other is required.
 - 14 P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantic: 1 LIN01 is the line item identification

Item Identification example: LIN**BP*SC607CA*PO*5000216*

Data Element Summary

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LIN01	350	Assigned Identification (line number). Alphanumeric characters assigned for differentiation within a transaction set. Not used.	O AN 1/20
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). This will be “BP” (buyer’s part number).	M ID 2/2
LIN03	234	Product/Service ID Identifying number for a product or service. TMD Item number.	M AN 1/48
LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	X ID 2/2

This will be “PO” (purchase order number).

LIN05 234

Product/Service ID

X AN 1/48

Identifying number for a product or service.

This will be the TMD purchase order number.

Segment: **UIT** Unit Detail

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify item unit data

Loop: LIN

Syntax: 1 C0302 - If UIT03 is present, then UIT02 is required.

Notes: This segment indicates the unit of measure for all quantities relating to the line item.

Example: UIT*EA*

Data Element Summary

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
UIT01	355	Unit or Basis for Measurement Code A code from the ANSI unit of measure table. This is the <u>purchase unit of measure</u> .	M ID 2/2
UIT02	212	Unit Price. Not Used.	X R 1/17
UIT03	639	Basis of Unit Price Code ID. Not Used.	O ID 2/2

Segment: PER Administrative Communications Contact

Level: Detail

Usage: Optional

Max Use: 3

Purpose: To identify a person or office to whom administrative communications should be directed

Loop: LIN

Syntax: 1 **P0304** - If either PER03 or PER04 is present, then the other is required.
P0506 - If either PER05 or PER06 is present, then the other is required. 2
P0708 - If either PER07 or PER08 is present, then the other is required. 3

Example: PER*EX*JOE SMITH*TE*618-662-4483 EXT.2293*

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. Possible values: EX Expeditor, IC Information Contact, SC Schedule Contact. This will be 'SC'.	M ID 2/2
PER02	93	Name Free-form name of Schedule Contact from the plant issuing the release.	O AN 1/60
PER03	365	Communication Number Qualifier Code identifying the type of communication number. Possible values: EM Electronic Mail, FX Facsimile, or TE Telephone. This will be 'TE'.	ID 2/2 X
PER04	364	Communication Number Telephone number of schedule contact See PER02	X AN 1/80
PER05	365	Communication Number Qualifier Not used.	X D 2/2
PER06	364	Communication Number Not used.	X AN 1/80
PER07	365	Communication Number Qualifier Not used.	X ID 2/2

PER08 364	Communication Number Not used.	X AN 1/80
PER09 443	Contact Inquiry Reference Not used.	O AN 1/20

Segment: ATH Resource Authorization

Level: Detail

Usage: Optional

Max Use: 20

Purpose: To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule.). There will always be at most one ATH*FI and one ATH*MT for each LIN.

Loop: LIN

Notes: The quantity fields in this segment are always cumulative quantities. Only one ATH segment should be used for each type of resource being authorized; that is, one and only one ATH for each different code used in ATH01.

Note: Two ATH segments will be sent (FI and MT).

Fabrication example: ATH*FI*19971025*500**19970803

Material example: ATH*MT*19971025*500**19970803

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
ATH01	672	Resource Authorization Code Code identifying the resource which the buyer is authorizing the seller to commit to. FI - Finished (Labor, Material, and Overhead/Burden), LM - Labor and Material, MT – Material, PQ - Cumulative Quantity Required Prior to First Schedule Period. "PQ" is only used for those using cumulative quantity based systems. TMD will use 'FI' and 'MT'.	M ID 2/2
ATH02	373	Resource authorization date. The date through which the buyer authorizes the seller to commit the resources defined in element ATH01. <u>TMD will use the Sunday date of the last week. ← Check this</u> Date Expressed as CCYYMMDD.	X DT 8/8
ATH03	380	Current cumulative requirements quantity. The cumulative quantity that has been authorized to date from the cumulative start date through the resource authorization through date. Note: This is not a “high water” quantity.	X R 1/15
ATH04	380	Maximum cumulative requirements quantity. Not used.	O R 1/15

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ATH05 373

The cumulative start date. The date when the cumulative quantity count starts. This date might be the start of a contract period, a calendar fiscal period. Date expressed as CCYYMMDD.
Not Used.

X DT 8/8

Segment: FST Forecast Schedule

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify the forecasted dates and quantities

Loop: LIN/FST Repeat: >1

Notes: Although the FST segment allows for time to be specified in addition to date, locations using that level of scheduling should use the shipping schedule transaction set (862) to convey this information.

At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.

Example - FST*800*D*W*19971006
 FST*900*D*W*19971013
 FST*1000*D*W*19971020
 FST*1100*D*W*19971027
 FST*1200*D*W*19971103
 FST*1300*D*W*19971110

Data Element Summary

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
FST01	380	Quantity Numeric value of quantity. This quantity Can be either CUM or discrete. TMD will use discrete quantities.	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. Only 'D' Planning will be sent.	M ID 1/1
FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast. Possible values are D Discrete, F Flexible Interval (from Date X through Date Y), M Monthly Bucket (Calendar Months), W Weekly Bucket (Monday through Sunday). TMD will use 'W'.	M ID 1/1
FST04	373	Date. If weekly, week starting date. Date expressed as CCYYMMDD	M DT 8/8

FST05	Not used.
FST06	Not used.
FST07	Not used.
FST08	Not used.
FST09	Not used.
FST10	Not used.

Segment: SHP Shipped/Received Information

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify shipment and/or receipt information

Loop: LIN/SHP Repeat: 25

Notes: This segment is used to give information on the last shipment either received/shipped and/or the cumulative quantity received/shipped to date.

The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.

If SHP01 equals "02", (indicating cumulative quantities), then SHP03 will be "50" "Received" and SHP04 will be the Last Receipt Date.

TMD will send four SHP segments (three '01' and one '02').

Example:

SHP*01*999*011*19970803 (net quantity from the most recent ASN)
SHP*01*999*011*19970810 (net quantity from the 2nd most recent ASN)
SHP*01*999*011*19970817 (net quantity from the 3rd most recent ASN)
(and the associated ASN numbers in REF segments)

and

SHP*02*999*050*19970803 (cumulative quantity received)

Note: If SHP02 = '0', then SHP03 and SHP04 will not be sent.

(ex- SHP*02*0)

Example: SHP*01*500*011*19970803 (discrete shipped (net quantity from most recent ASN))

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SHP01	673	Quantity Qualifier (from the most recent ASN) Code specifying the type of quantity. "01" = discrete quantity, "02" = cumulative quantity shipped. TMD will use '01'.	O ID 2/2
SHP02	380	Quantity	X R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. When SHP01 = 01, '011' = Shipped, '050' = Received. When SHP01 = 02, '011' = Shipped, '050' = Received, '051' = Cumulative Quantity Start. TMD will use '011'.	X ID 3/3

SHP04 373	Date Last Receipt Date. Date expressed as CCYYMMDD.	X DT 8/8
SHP05 337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8
SHP06 373	Date Not used.	X DT 8/8
SHP07 337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8

Segment: REF Reference Identification

Level: Detail

Usage: Optional

Max Use: 5

Purpose: To specify identifying information

Loop: LIN/SHP

Notes: Used to identify the last receipt/shipment.

A REF segment will follow each ('01') SHP segment.

7/11/00 – TMD will send three REF segments (one for each SHP*01* segment)

Example: REF*SI*446999*

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier (from the most recent ASN) Code qualifying the Reference Identification 'SI' = Shipper's Identifying Number for Shipment (SID). TMD will use 'SI'.	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Last ASN number.	X AN 1/30
REF03	352	Description. Not used.	X AN 1/80
REF04	C040	Reference Identifier. Not used.	O

Segment: SHP Shipped/Received Information

Level: Detail

Loop: LIN/SHP **Repeat:** 10

Usage: Optional

Max Use: 1

Purpose: To specify shipment and/or receipt information.

Example: SHP*01*575*11*19970803 (discrete received (net quantity from the 2nd most recent ASN))

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SHP01	673	Quantity Qualifier (from the 2 nd most recent ASN) Code specifying the type of quantity. "01" = discrete quantity, "02" = cumulative quantity shipped. TMD will use '01'.	O ID 2/2
SHP02	380	Quantity	X R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. When SHP01 = 01, '011' = Shipped, '050' = Received. When SHP01 = 02, '011' = Shipped, '050' = Received, '051' = Cumulative Quantity Start. TMD will use '011'.	X ID 3/3
SHP04	373	Date Last Receipt Date. Date expressed as CCYYMMDD.	X DT 8/8
SHP05	337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8
SHP06	373	Date Not used.	X DT 8/8
SHP07	337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8

Segment: **REF** Reference Identification

Level: Detail

Usage: Optional

Max Use: 5

Purpose: To specify identifying information

Loop: LIN/SHP

Notes: Used to identify the last receipt/shipment.

Example: REF*SI*446999*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
REF01	128	Reference Identification Qualifier (from the 2 nd most recent ASN) Code qualifying the Reference Identification 'SI' = Shipper's Identifying Number for Shipment (SID). TMD will us 'SI'.	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Last ASN number.	X AN 1/30
REF03	352	Description. Not used.	X AN 1/80
REF04	C040	Reference Identifier. Not used.	O

Segment: SHP Shipped/Received Information

Level: Detail

Loop: LIN/SHP **Repeat:** 10

Usage: Optional

Max Use: 1

Purpose: To specify shipment and/or receipt information.

Example: SHP*01*600*11*19970803 (discrete received (net quantity from the 3rd most recent ASN))

Data Element Summary

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier (from the 3 rd most recent ASN) Code specifying the type of quantity. "01" = discrete quantity, "02" = cumulative quantity shipped. TMD will use '01'.	O ID 2/2
SHP02	380	Quantity	X R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. When SHP01 = 01, '011' = Shipped, '050' = Received. When SHP01 = 02, '011' = Shipped, '050' = Received, '051' = Cumulative Quantity Start. TMD will use '011'.	X ID 3/3
SHP04	373	Date Last Receipt Date. Date expressed as CCYYMMDD.	X DT 8/8
SHP05	337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8
SHP06	373	Date Not used.	X DT 8/8
SHP07	337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8

Segment: **REF** Reference Identification

Level: Detail

Usage: Optional

Max Use: 5

Purpose: To specify identifying information

Loop: LIN/SHP

Notes: Used to identify the last receipt/shipment.

Example: REF*SI*446999*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
REF01	128	Reference Identification Qualifier (from the 3 rd most recent ASN) Code qualifying the Reference Identification 'SI' = Shipper's Identifying Number for Shipment (SID). TMD will us 'SI'.	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Last ASN number.	X AN 1/30
REF03	352	Description. Not used.	X AN 1/80
REF04	C040	Reference Identifier. Not used.	O

Segment: SHP Shipped/Received Information

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify shipment and/or receipt information

Loop: LIN/SHP Repeat: 25

Notes: This segment is used to give information on the last shipment either received/shipped and/or the cumulative quantity received/shipped to date.

The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.

Note: If SHP02 = '0', then SHP03 and SHP04 will not be sent.
(ex- SHP*02*0)

Example: SHP*02*999*050*19970803 (cumulative quantity received)

Data Element Summary

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier Code specifying the type of quantity. "01" = discrete quantity, "02" = cumulative quantity (received). TMD will use '02'.	O ID 2/2
SHP02	380	Quantity	X R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. When SHP01 = 01, '011' = Shipped, '050' = Received. When SHP01 = 02, '011' = Shipped, '050' = Received, '051' = Cumulative Quantity Start. TMD will use '050'.	X ID 3/3
SHP04	373	Date Last Receipt Date. Date expressed as CCYYMMDD.	X DT 8/8
SHP05	337	Time Time expressed in 24-hour clock. Not used.	X TM 4/8
SHP06	373	Date	X DT 8/8

Not used.

SHP07 337

Time

X TM 4/8

Time expressed in 24-hour clock. **Not used.**

Segment: CTT Transaction Totals

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Loop: _____

Notes: Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Example: CTT*4*13860*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CTT01	354	Number of Line Items Total number of line items in the transaction set. Total number of LIN segments.	M N0 1/6
CTT02	347	Hash Total. Hash total of quantities release (FST01). Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. The sum of the values of the quantities (FST01) for each FST segment.	O R 1/10
<u>Example:</u>			
		- .0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	
CTT03	81	Not used.	
CTT04	355	Not used.	
CTT05	183	Not used.	
CTT06	355	Not used.	
CTT07	352	Not used.	

Segment: SE Transaction Set Trailer

Level: Summary

Usage: Mandatory

Max Use: 1

Required

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)

Loop: _____

Notes: The Transaction Set Control Number value in this trailer must match the same element value in the Transaction Set Header (ST02).

SE is the last segment of each transaction set.

Example: SE*39*0001*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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
Same as ST02.			

Segment: GE Functional Group Trailer

Level: N/A

Loop: _____

Usage: Mandatory 1 per functional group

Max Use: 1

Purpose: To indicate the end of a functional group and to provide control information

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*1*000000411*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
GE01	97	Number of Transaction Sets Included Total number of ST segments in group	M NO 1/6
GE02	28	Group Control Number Must be identical to the same data element in the associated group header (GS06)	M NO 1/9

Segment: IEA Interchange Control Trailer

Level: N/A

Loop: _____

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

Notes: The interchange control number IEA02 in this trailer must match the value in ISA13.

Example: IEA*1*000000001*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
IEA01	I16	Number of Included Functional Groups Number of GS segments included between ISA and this IEA	M NO 1/5
IEA02	I12	Interchange Control Number Must match ISA13	M NO 9/9

Sample Planning Schedule (830):

ISA*00* 00* *ZZ*138596742TMD *01*009999999 *041012*1730*U*00401
*000000039*0*P*:?
GS*PS*138596742TMD*009999999*20041012*1730*39*X*004010?
ST*830*390002?
BFR*05**0192*SH*A*20041013*20050411*20041012**C700029?
NI*MI*TOLEDO MOLDING & DIE, INC.*1*138596742?
NI*ST**1*138596742?
NI*SF**1*009999999?
LIN**BP*B12345AB*PO*7000291?
UIT*EA?
PER*SC**TE*4199272941?
ATH*FI*20041020*25056?
ATH*MT*20041103*27648?
FST*864*C*D*20041012?
FST*864*C*D*20041015?
FST*1296*C*W*20041022?
FST*1296*C*W*20041029?
FST*864*D*W*20041101?

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FST*864*D*W*20041108?
FST*864*D*W*20041115?
FST*1296*D*W*20041122?
FST*8640*D*W*20041213?
SHP*01*432*011*20041002?
REF*SI*525107?
SHP*01*1728*011*20040929?
REF*SI*524792?
SHP*01*1296*011*20040928?
REF*SI*524875?
SHP*02*23328*050*20041002?
CTT*9*16848?
SE*28*390002?
GE*14*39?
IEA*1*000000039?