

Toledo Molding & Die, LLC  
EDI Document Specification

856: Ship Notice/Manifest – *Inbound to TMD from Vendor*

7/24/02 Changes

**ISA07** I05            Interchange ID Qualifier  
                          TMD will use “ZZ”

**ISA08** I07            Interchange Receiver ID  
                          D-U-N-S number of the TMD receiving plant + ‘TMD’.

11/21/02 Changes

To match fields with our JBA software BSN02 and REF02 will now be 20 characters instead of 30.

<b>BSN02</b> 396	Shipment Identification	M AN 2/20
<b>REF02</b> 127	Reference Identification.	X AN 1/20

4/28/05 Changes

Sample 856 revised to agree more closely with the specifications.

Segments used but shown as “Optional” have been changed to “Mandatory” to avoid confusion.

PRF Segment now states to use information from the 862.

**SN104** Quantity Shipped to Date needs to include the quantity on the ASN being sent.

7/25/05 Change to CTT01 and CTT02 documentation.

11/14/05 Change to CTT01 documentation.

6/27/06 Change to Equipment Description (TD301)

Added text to list the 5 valid equipment descriptions.

Additional changes are noted in the text by red color.

10/02/08 Changes:

Updated TMD contacts and/or phone numbers.

Removed Delphos 1.

02/11/2010 Change:

Removed Elba.

01/1/2013 Change:

BSN01 – Specify that ‘001’ and ‘005’ entries are not allowed. TMD’s ERP software will not process them.

Note: These requirements may be subject to change. The following was produced as an internal document so that I could define TMD’s unique requirements. It is being sent to you for your information. For questions concerning this document please contact me:

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Note: This document replaces any previous 856 document sent to you.  
This document is meant for technical reference only.

Any questions of a financial nature should be addressed to:

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Any questions concerning your supplier relationship with TMD should be addressed to:

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TMD will use AIAG Version 004 . Release 010 of the 856 document.

Transmission schedule: 856s will be transmitted by the supplier before each shipment to TMD.

**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\*T425B        \*ZZ\*F159B  
                  \*000121\*0838\*U\*00200\*000561178\*0\*P\*\*

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</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 <b>Not used</b>	M ID 2/2
ISA04	I04	Security Information <b>Not used</b>	M AN 10/10
ISA05	I05	Interchange ID Qualifier TMD will use "01" (see ISA06) Possible: "ZZ" (see ISA08) if supplier has No D-U-N-S	M ID 2/2
ISA06	I06	Interchange <b>Sender</b> ID D-U-N-S number of the supplier sending plant. <b>Suppress internal dashes and spaces.</b> <b>Left justify.</b> TMD will assign a supplier code for those who do not have a DUNS. Suppliers can register for free DUNS number at <a href="http://www.dnb.com">www.dnb.com</a> or by calling 1.800.333.0505.	M ID 15/15

<b>ISA07</b> I05	Interchange ID Qualifier Use “ZZ”	M ID 2/2
<b>ISA08</b> I07	Interchange Receiver ID D-U-N-S number of the TMD receiving plant + ‘TMD’. <b>Suppress internal dashes and spaces.</b> <b>Left justify.</b>  TMD plant Receiver IDs are:  Bowling Green      021046771TMD Delphos II            838509636TMD Laskey                091910435TMD Tiffin                  131978590TMD	M ID 15/15
<b>ISA09</b> I08	Interchange Date Date of creation. <b>YYMMDD</b>	M DT 6/6
<b>ISA10</b> I09	Interchange Time Time of creation	M TM 4/4
<b>ISA11</b> I10	Interchange Control Standards Identifier Use “U” for U.S.	M ID 1/1
<b>ISA12</b> I11	Interchange Control Version Number Use “00401”	M ID 5/5
<b>ISA13</b> I12	Interchange Control Number A number that cannot be repeated within a 1 year period at a time	M N0 9/9
<b>ISA14</b> I13	Acknowledgment Requested Use “0” for no Ack. Req., use “1” for Ack. Req.	M ID 1/1
<b>ISA15</b> I14	Test Indicator Use “T” for test data or “P” for production data	M ID 1/1
<b>ISA16</b> 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*SH*123456789*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 'SH'.	M ID 2/2
GS02	142	Application Sender's Code Sending (supplier) plant DUNS number. <b>Suppress internal dashes and spaces.</b> <b>Left justify.</b> TMD will assign a supplier code for those who do not have a DUNS. Suppliers can register for free DUNS number at <a href="http://www.dnb.com">www.dnb.com</a> or by calling 1.800.333.0505.	M ID 2/15
GS03	124	Application Receiver's Code This code should match the receiver code in the ISA segment. D-U-N-S number of the TMD receiving plant + 'TMD'. <b>Suppress internal dashes and spaces.</b> <b>Left justify.</b>	M ID 2/15

TMD plant Receiver's Codes are:

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

- |             |     |   |           |
|-------------|-----|---|-----------|
| <b>GS04</b> | 29  | Date<br>Date created. <b>CCYYMMDD</b>   | M DT 8/8  |
| <b>GS05</b> | 30  | Time<br>Time (HHMM) when the sender generated the Transaction sets (local time at sender's location)  | M TM 4/8  |
| <b>GS06</b> | 28  | Group Control Number<br>Number assigned and maintained by sender.<br>Start with 1 and increment by 1 for each subsequent GS segment.  | M NO 1/9  |
| <b>GS07</b> | 455 | Responsible Agency Code<br>Code used in with D.E. 480 to identify the Issuer of the standard. Use 'X' (ANSI X12).   | M ID 1/2  |
| <b>GS08</b> | 408 | Version/Release/ Industry Code<br>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.<br>TMD will use ' <b>004010</b> '. | M ID 1/12 |

**Segment: ST Transaction Set Header**

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

**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\\*856\\*nnnnnn](#)

**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 Use “856” (Ship Notice/Manifest)	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:** **BSN** Beginning Segment for Ship Notice

**Level:** Header

**Loop:** \_\_\_\_

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Notes:** The date and time are the date and local time of the creation of the transaction.

Example: **BSN\*00\*12345\*20000119\*0830.**

### Data Element Summary

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
<b>BSN01</b>	353	Transaction Set Purpose Code Code identifying purpose of transaction set CODE DEFINITION: <b>00 Original</b> 01 Cancellation ( <b>Not used</b> ) 05 Replace ( <b>Not used</b> ) Use '00' only	M ID 2/2
<b>BSN02</b>	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment Unique supplier-assigned number that is not repeated within a one year period when BSN01 = "00". <b>Sender.</b>	M AN 2/20
<b>BSN03</b>	373	Date Date expressed as CCYYMMDD <b>Sender's</b> date at creation.	M DT 8/8
<b>BSN04</b>	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) <b>Sender's</b> time at creation. <b>Use HHMM.</b>	M TM 4/8

<b>BSN05</b> 1005	Hierarchical Structure Code Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set. <b>Not used.</b>	O ID 4/4
<b>BSN06</b> 640	Transaction Type Code <b>Not used.</b>	X ID 2/2
<b>BSN07</b> 641	Status Reason Code Code indicating the status reason. <b>Not used.</b>	O ID 3/3

**Segment: DTM** Date/Time Reference

**Level:** Header

**Loop:** \_\_\_\_

**Usage:** Mandatory

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

Example: [DTM\\*011\\*20000119\\*0830](#).

### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
<b>DTM01</b> 374		Date/Time Qualifier Code specifying type of date or time, or both date and time. <b>One DTM segment with a code value of "011" is required.</b> CODE DEFINITION: 011 Shipped (normal) 017 Estimated Delivery	M ID 3/3
<b>DTM02</b> 373		Date Date expressed as CCYYMMDD <b>Sender</b>	X DT 8/8
<b>DTM03</b> 337		Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) And DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99). Date expressed as HHMM <b>Sender</b>	X TM 4/8
<b>DTM04</b> 623		Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow If not used, the date and time is	O ID 2/2

assumed to be the shipper's local time for "011" and the receiver's local time "017". Any valid X12 code value except mutually defined.

<b>DTM05</b> 1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format. <b>Not used.</b>	X ID 2/3
<b>DTM06</b> 1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times. <b>Not used.</b>	X AN 1/35

[Heading Level:](#)

**Segment: HL Hierarchical Level**

**Level:** Detail – Shipment

**Loop:** HL **Repeat:** 200000

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups of data Segments. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set .

**Data Element Summary**

<b><u>Ref.</u></b>	<b><u>Data</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
<b><u>Des.</u></b>	<b><u>Element</u></b>		
<b>HL01</b>	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M AN 1/12
<b>HL02</b>	734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to. <b>Not used for this occurrence of the HL segment.</b>	O AN 1/12
<b>HL03</b>	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure. Use 'S' (Shipment)	M ID 1/2
<b>HL04</b>	736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described. <b>Not used.</b>	O ID 1/1

**Segment: MEA Measurements**

**Level:** Detail – Shipment

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

**Note:** Two MEA segments will be required from the sender. A “G” (gross weight) segment and an “N” (net weight) segment.

Example: MEA\*PD\*G\*23143\*LB

Example: MEA\*PD\*N\*7936\*LB

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies. Use ‘PD’ (Physical Dimensions)	O ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies Code value "G" is required. Code "N" is required for all rail shipments.  CODE DEFINITION:  G = Gross Weight N = Actual Net Weight	O ID 1/3
MEA03	739	Measurement Value The value of the measurement.	X R 1/20
MEA04	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.	X ID 2/2

CODE DEFINITION:

KG = Kilogram

LB = Pound

**MEA05 – MEA10**

**Not used.**

**Segment: TD1 Carrier Details (Quantity and Weight)**

**Level:** Detail – Shipment

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 20

**Purpose:** To specify the transportation details relative to commodity, weight, and quantity

**Notes:** Used to specify lading quantity and package type.

Example: [TD1\\*RCK90\\*25](#)

### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD101 103		Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required. <b>Use Packaging Code of the shipping unit (e.g. ten boxes on one pallet is specified as one pallet). Any valid X12 code value except mutually defined.</b>	O AN 3/5
TD102 80		Lading Quantity Number of units (pieces) of the lading commodity	X N0 1/7
TD103 - TD110		<b>Not used.</b>	

**Segment: TD5 Carrier Details (Routing Sequence/Transit Time)**

**Level:** Detail – Shipment

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time information

**Comments:** When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Example: **TD5\*B\*02\*CUOT\*C\*\*\*PP\*PC66**

**Data Element Summary**

<b><u>Ref.</u></b>	<b><u>Data</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
<b><u>Des.</u></b>	<b><u>Element</u></b>		
<b>TD501</b>	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement	O ID 1/2
<b>CODE DEFINITION:</b>			
B = Origin/Delivery Carrier (Any Mode)			
<b>TD502</b>	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
<b>CODE DEFINITION:</b>			
2 = Standard Carrier Alpha Code (SCAC)			
<b>TD503</b>	67	Identification Code Code identifying a party or other code	X AN 2/80
<b>TD504</b>	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment <b>Any valid X12 code value except mutually defined; 'ZZ'</b>	X D 1/2
("A" = Air "AE" = Air Express "C" = Consolidated (Pool) "E" = Expedited Truck			

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"G" = Piggyback Rail  
 "H" = Customer Pick-up  
 "J" = Just-in-Time  
 "L" = Contract Carrier  
 "LT" = Less Than Truck Load  
 "M" = Motor (Common Carrier)  
 "O" = Ocean  
 "P" = Private Carrier  
 "R" = Rail  
 "U" = UPS (United Parcel Service) )

**TD505 - TD506**      **Not used.**

**TD507 309**      Location Qualifier      O ID 1/2  
 Code identifying type of location  
 If TD504 = 'A', use code value "OR", meaning  
 Origin (Shipping Point).

**CODE DEFINITION:**

**OR** = Origin (Shipping Point)  
**PP** = Pool Point

**TD508 310**      Location Identifier      X AN 1/30  
 Code which identifies a specific location  
**Give pool code if TD507 is "PP"; give airport  
 code Identifier if TD507 is "OR" for an air  
 shipment (e.g., DTW = Detroit Metro Airport).**

**TD509 - TD515**      **Not used.**

**Segment: TD3 Carrier Details (Equipment)**

**Level:** Detail – Shipment

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 12

**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Notes:** **Maximum use of this TD3 segment is one. This TD3 is used to identify the serial Number of the trailer or railcar.**

Example : TD3\*TL\*\*K1128

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
TD301 40		Equipment Description Code Code identifying type of equipment used for Shipment. Any valid X12 code value except mutually defined.  <b>TMD will accept the following Equipment Description Codes:</b>  <b>AC = Air Charter</b> <b>AE = Air Expedite</b> <b>EX = Expedite</b> <b>PT = Partial Truck</b> <b>TL = Truck Load</b>	X ID 2/2
TD302 206		Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number. <b>Not used.</b>	O AN 1/4
TD303 207		Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred). Use <b>trailer number</b> .	X AN 1/10
TD304 - TD310		<b>Not used.</b>	

**Segment: REF Reference Identification**

**Level:** Detail – Shipment

**Loop:** HL

**Usage:** Mandatory

**Max Use:** >1

**Purpose:** To specify identifying information

**Note:** Two REF segments will be required from the sender. A “BM (bill of lading number) segment and an “PK” (packing list number) segment.

Example: REF\*BM\*561178

Example: REF\*PK\*561178

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		

<b>REF01</b>	128	Reference Identification Qualifier Code qualifying the Reference Identification <b>Either "BM" or "PK" is required to be transmitted.</b>	M ID 2/3
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**CODE DEFINITION:**

**AO** = Appointment Number  
**AW** = Air Waybill Number  
**BM** = Bill of Lading Number  
**JA** = Beginning Job Sequence Number  
**JE** = Ending Job Sequence Number  
**MB** = Master Bill of Lading  
**PK** = Packing List Number

<b>REF02</b>	127	Reference Identification. Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	X AN 1/20
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**REF03 - REF04**      **Not used.**

**Segment: N1 Name**

**Level:** Detail – Shipment

**Loop:** HL/N1 **Repeat:** 200

**Usage:** Mandatory

**Max Use:** 1

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

**Note:** Two N1 segments will be required from the sender. An “ST” (ship to identification) segment and a “SF” (ship from identification) segment.

**D-U-N-S numbers will be the preferred method of identifying our suppliers.**

Suppliers can register for free DUNS number at [www.dnb.com](http://www.dnb.com) or by calling 1.800.333.0505. TMD will assign a supplier code for those who do not have a DUNS.

You will need a D-U-N-S number for each ‘ship from’ plant.

Example: N1\*ST\*\*01\*071107452 (ship to the TMD Carey plant)

Ship to segment:

<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, a physical location, property or an individual.	M ID 2/3
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**CODE DEFINITION:**

**BT** = Bill-to-Party

**CS** = Consolidator

**MI** = Planning Schedule/Material Release Issuer

**SF** = Ship From

**ST** = Ship To

**SU** = Supplier/Manufacturer

N102	93	Name AN 1/60 X Free-form name <b>Not used.</b>	
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N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). Use ‘01’.	X ID 1/2
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**CODE DEFINITION:**

**01** = D-U-N-S Number, Dun & Bradstreet

**N104 67** Identification Code X AN 2/80  
 Code identifying a party or other code  
**Suppress internal dashes and spaces.**  
**Left Justify.**

TMD plant D-U-N-S numbers are:

Bowling Green	021046771
Delphos II	838509636
Laskey	091910435
Tiffin	131978590

**N105 - N105** **Not used.**

Ship from segment:

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		

<b>N101 98</b>		Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual.	

**CODE DEFINITION:**

**BT** = Bill-to-Party  
**CS** = Consolidator  
**MI** = Planning Schedule/Material Release Issuer  
**SF** = Ship From  
**ST** = Ship To  
**SU** = Supplier/Manufacturer

<b>N102 93</b>	Name AN 1/60 X	
	Free-form name	
	<b>Not used.</b>	

<b>N103 66</b>	Identification Code Qualifier	X ID 1/2
	Code designating the system/method of code structure used for Identification Code (67). Use '01' if the ship from plant has a D-U-N-S.	
	<b>This is the preferred method.</b>	
	Suppliers can register for free D-U-N-S number at <a href="http://www.dnb.com">www.dnb.com</a> or by calling 1.800.333.0505. TMD will assign a supplier code for those who do not have a D-U-N-S. You will need a D-U-N-S number for each	

**'ship from' plant.**

Use **'92'** if the ship from plant has a TMD assigned plant number.

**CODE DEFINITION:**

**01** = D-U-N-S Number, Dun & Bradstreet

**92** = TMD assigned plant number.

<b>N104 67</b>	Identification Code	X AN 2/80
	Code identifying a party or other code. This is the ship from plant's D-U-N-S number or TMD assigned plant number. <b>Suppress internal dashes and spaces.</b> <b>Left Justify.</b>	
<b>N105 - N105</b>	<b>Not used.</b>	

**Order Level: No Order Level Information will be sent.**

Item Level:

**Segment: HL Hierarchical Level**

**Level:** Detail – Item

**Loop:** HL **Repeat:** 200000

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups of data Segments

Example: HL\*3\*1\*I (Hierarchical ID = 3, Hierarchical Parent ID Number = 2, Hierarchical Level = I = Item)

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
<b>HL01</b>	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. <b>"1" is used for the shipment level HL segment. Increment by 1 for each subsequent HL segment within the transaction.</b>	M AN 1/12
<b>HL02</b>	734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	O AN 1/12
<b>HL03</b>	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure. <b>I = Item</b>	M ID 1/2
<b>HL04</b>	736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described.	O ID 1/1

**Segment: LIN Item Identification**

**Level:** Detail – Item

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 1

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

**Notes:** If used at order level, does not need to be repeated at item level.

Example: [LIN\\*\\*BP\\*YS4H ICSMOD RM](#)

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. <b>Not used.</b>	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). Use 'BP' (Buyer's Part Number) If a Buyer's Part Number (BP) is not available then select a qualifier from the codes listed under the LIN04 to identify the item.	M ID 2/2
LIN03	234	Product/Service ID Identifying number for a product or service. Use TMD's part number.	M AN 1/48
LIN04	4235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	X ID 2/2

**CODE DEFINITION:**

**CH** = Country of Origin Code  
SEE CODE SOURCE 5 IN X12 STANDARDS  
**DR** = Drawing Revision Number  
**EC** = Engineering Change Level  
**PO** = Purchase Order Number  
**RC** = Returnable Container Number  
**VO** = Vendor's Order Number  
**VP** = Vendor's (Seller's) Part Number

**Not used.**

**LIN05** 234

Product/Service ID

X AN 1/48

Identifying number for a product or service.

**Not used.**

**LIN06** through **LIN31** provide for 13 additional pairs of data elements 235 and 234. **Not used.**

**Segment: SN1 Item Detail (Shipment)**

**Level:** Detail – Item

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify line-item detail relative to shipment

**Notes:** Used to show the net quantity being shipped, the unit of measure and cumulative year-to-date shipments if applicable.

If used at Order level, does not need to be repeated at item level.

Example: [SN1\\*\\*49\\*EA\\*2469](#)

<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
SN101 350		Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. <b>Not used.</b>	O AN 1/20
SN102 382		Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	M R 1/10
SN103 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. <b>This should be the same Unit of Measure provided on the corresponding releasing document. Any valid X12 code value except mutually defined; 'ZZ'.</b>	M ID 2/2
SN104 646		Quantity Shipped to Date Number of units shipped to date ( <b>including this shipment</b> ). Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	O R 1/15
SN105 330		Quantity Ordered <b>Not used.</b>	X R 1/15
SN106 - SN108		<b>Not used.</b>	

**Segment: PRF Purchase Order Reference**

**Level:** Detail – Item

**Loop:** HL

**Usage:** Mandatory

**Max Use:** 1 (One per item level HL segment.)

**Purpose:** To provide reference to a specific purchase order.

**Semantic:** 1PRF04 is the date assigned by the purchaser to purchase order.

**Notes:** If used at Order level, does not need to be repeated at item level.

Example: PRF\*3003400\*4\*\*20000119\*\*C300237

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
PRF01324		Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser. Use PO number provided in releasing documents (e.g., 830, 850, 862, 866). <b>Please use information from the 862.</b>	M AN 1/22
PRF02328		Release (schedule) Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. <b>Please use information from the 862.</b>	O AN 1/30
PRF03327		<b>Not used.</b>	
PRF04373		Date Release (schedule) issue date expressed as CCYYMMDD <b>Please use information from the 862.</b>	O DT 8/8
PRF05350		Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. <b>Not used.</b>	O AN 1/20
PRF06367		Contract Number TMD assigned contract number. <b>Please use information from the 862.</b>	O AN 1/30
PRF07 92		<b>Not used.</b>	

**Segment: CLD Load Detail**

**Level:** Detail – Item

**Loop:** HL/CLD **Repeat:** 200

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the number of material loads shipped

**Notes:** This segment is used by the supplier to inform the customer about the number of customer material loads shipped (e.g., pallets), and the quantity per load. The customer will use this information to prepare move tags and/or bar-coded labels to aid in moving material.

Example: [CLD\\*16\\*15\\*RCK90](#)

<u>Ref.</u>	<u>Data</u>		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
CLD01	622	Number of Loads Number of customer-defined loads shipped by the supplier.	M NO 1/5
CLD02	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set. Total quantity per container.	M R 1/10
CLD03	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required. Any valid X12 code value except mutually defined.	O AN 3/5

**Segment: CTT Transaction Totals**

**Level:** Summary

**Loop:** \_\_\_\_

**Usage:** Mandatory

**Max Use:** 1

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

**Comments:** This segment is intended to provide hash totals to validate transaction completeness and correctness.

Example: CTT\*8\*377

<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 <b>Total number of HL segments.</b>	M NO 1/6

CTT02	347	Hash Total <b>(Total of SN102 elements - number of units shipped)</b> 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.	O R 1/10
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Example:

-.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 - CTT07**                      **Not used.**

**Segment: SE Transaction Set Trailer**

**Level:** Summary

**Loop:** \_\_\_\_

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted Segments (including the beginning (ST) and ending (SE) segments). SE is the last segment of each transaction set.

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

Example: SE\*00043\*1001

<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 NO 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 <b>Same as ST02</b>	M AN 4/9

**Segment: GE Number of Included Sets**

**Level:** Summary

**Loop:** \_\_\_\_

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the number of transaction sets within this GS/GE pair.

<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
GE01		Number of included sets A count of the number of transaction sets within this GS/GE pair.	
GE02		Data interchange Control Number Start with "1" and increment ONE for every subsequent GS this transmission. (Must match GS06 number)	

**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\*000001\*000561178

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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

Sample Advanced Ship Notice (856):

ISA\*00\* \*00\* \*01\*009999999 \*ZZ\*838509636TMD \*040923\*1704\*U\*00401\*000  
000205\*0\*P\*:?  
GS\*SH\*009999999\*838509636TMD\*20040923\*1704\*206\*X\*004010?  
ST\*856\*0001?  
BSN\*00\*320133\*20040923\*1704?  
DTM\*011\*20040826\*1510\*ED?  
HL\*1\*\*S?  
MEA\*PD\*G\*14836\*LB?  
MEA\*PD\*N\*5319\*LB?  
TD1\*TBN90\*341?  
TD5\*B\*02\*CUOT\*M\*\*PP\*PC66?  
TD3\*TL\*\*1?  
REF\*BM\*320133?  
REF\*PK\*11358?  
N1\*ST\*\*01\*838509636?

**N1**\*SF\*\*01\*009999999?  
**HL**\*2\*1\*I?  
**LIN**\*\*BP\*A123456AB?  
**SN1**\*\*2080\*EA\*243503?  
**PRF**\*5006992\*0292\*\*20040827\*\*C501729?  
**CLD**\*32\*65\*TBN90?  
**HL**\*3\*1\*I?  
**LIN**\*\*BP\*A6789AB?  
**SN1**\*\*14400\*EA\*1467672?  
**PRF**\*5008231\*0226\*\*20040907\*\*C501460?  
**CLD**\*48\*300\*TBN90?  
**HL**\*4\*1\*I?  
**LIN**\*\*BP\*A123XX?  
**SN1**\*\*504\*EA\*272776?  
**PRF**\*5006575\*354\*\*20040827\*\*C501560?  
**CLD**\*18\*28\*TBN90?  
**HL**\*5\*1\*I?  
**LIN**\*\*BP\*A56789?  
**SN1**\*\*7200\*EA\*120656?  
**PRF**\*5009628\*0160\*\*20040907\*\*C501629?  
**CLD**\*24\*300\*TBN90?  
**HL**\*6\*1\*I?  
**LIN**\*\*BP\*A23456?  
**SN1**\*\*972\*EA\*324216?  
**PRF**\*5004428\*0755\*\*20040827\*\* C700029?  
**CLD**\*3\*324\*TBN90?  
**CTT**\*14\*37332?  
**SE**\*80\*0001?  
**GE**\*1\*206?  
**IEA**\*1\*000000205?