



**EDI Specifications**  
**Version 4010 / Transaction Set 858**  
**Shipment Information**

# 858 Shipment Information

Functional Group ID=**SI**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment Information Transaction Set (858) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the sender with the capability to transmit detailed bill-of-lading, rating, and/or scheduling information pertinent to a shipment. This transaction set can also be used to exchange Government Bills of Lading (GBLs), Commercial Bills of Lading (CBLs), Transportation Control and Movement Documents (TCMDs), and Personal Property Government Bills of Lading (PPGBLs). It may be used by the U.S. Civilian Government, U.S. Department of Defense, and any of their trading partners to exchange information about the shipment of freight, household goods, and passengers. This transaction set fulfills information requirements established by U.S. Government transportation movement rules and regulations.

## Heading:

<u>TSi Required</u>	<u>Ref</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header		M	1	
M	030	BX	General Shipment Information		M	1	n1
	060	N9	Reference Identification		O	30	
	190	MEA	Measurements		O	10	
	280	NTE	Note/Special Instruction		O	50	
LOOP ID - N7							600
	330	N7	Equipment Details		O	1	
	360	REF	Reference Identification		O	5	
LOOP ID - N1							12
M	390	N1	Name		O	1	
M	410	N3	Address Information		O	2	
M	420	N4	Geographic Location		O	1	
LOOP ID - S5							999
	450	S5	Stop-off Details		O	1	
	460	G62	Date/Time		O	6	
	470	N9	Reference Identification		O	10	
LOOP ID - N1							5
	490	N1	Name		O	1	
	510	N3	Address Information		O	2	
	520	N4	Geographic Location		O	1	

## Detail:

<u>TSi Required</u>	<u>Ref</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL							>1
M	010	HL	Hierarchical Level		M	1	
	100	N9	Reference Identification		O	10	
LOOP ID - L0							20

<u>TSi Required</u>	<u>Ref</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	145	L0	Line Item - Quantity and Weight		O	1	
	150	L1	Rate and Charges		O	20	
	160	MEA	Measurements		O	10	

### Summary:

<u>TSi Required</u>	<u>Ref</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	010	L3	Total Weight and Charges		O	1	
M	020	SE	Transaction Set Trailer		M	1	

### Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.
3. All receivers of the EDI transactions covering empty tank cars which last contained hazardous commodities must be able to add the constant words: RESIDUE: LAST CONTAINED ahead of the contents of LHE01 and add the constant: RESIDUE following the contents of the LHE02 when printing paper documents.
4. When used in the hazardous material loop, the segment will identify the various certification, exemption or shipper-related numbers that relate to the specific line item of the shipment that are in addition to the UN/UA number reference in the LH1 segment.

**ISA****Interchange Control Header**

**Pos:** **Max: 1**  
**- Mandatory**  
**Loop: N/A Elements: 16**

To start and identify an interchange of zero or more functional groups and interchange-related control segments

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	<b>Authorization Information Qualifier</b> <b>Description:</b> Code to identify the type of information in the Authorization Information <u>Code NAME</u> 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Must use
ISA02	I02	<b>Authorization Information</b> <b>Description:</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	<b>Security Information Qualifier</b> <b>Description:</b> Code to identify the type of information in the Security Information <u>Code NAME</u> 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Must use
ISA04	I04	<b>Security Information</b> <b>Description:</b> This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <u>Code NAME</u> 01 Duns (Dun & Bradstreet) 02 SCAC (Standard Carrier Alpha Code)	M	ID	2/2	Must use
ISA06	I06	<b>Interchange Sender ID</b> <b>Description:</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <u>Code NAME</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined	M	ID	2/2	Must use
ISA08	I07	<b>Interchange Receiver ID</b> <b>Description:</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	Must use
ISA09	I08	<b>Interchange Date</b> <b>Description:</b> Date of the interchange	M	DT	6/6	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA10	I09	<b>Interchange Time</b> <b>Description:</b> Time of the interchange	M	TM	4/4	Must use
ISA11	I10	<b>Interchange Control Standards Identifier</b> <b>Description:</b> Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer <u>Code</u> <u>NAME</u> U U.S. EDI Community of ASC X12	M	ID	1/1	Must use
ISA12	I11	<b>Interchange Control Version Number</b> <b>Description:</b> This version number covers the interchange control segments <u>Code</u> <u>NAME</u> 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
ISA13	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	<b>Acknowledgment Requested</b> <b>Description:</b> Code sent by the sender to request an interchange acknowledgment (TA1) <u>Code</u> <u>NAME</u> 0 No Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	<b>Usage Indicator</b> <b>Description:</b> Code to indicate whether data enclosed by this interchange envelope is test, production or information <u>Code</u> <u>NAME</u> P Production Data	M	ID	1/1	Must use
ISA16	I15	<b>Component Element Separator</b> <b>Description:</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	Must use

**GS****Functional Group Header**

<b>Pos:</b>	<b>Max: 1</b>
<b>- Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 8</b>

To indicate the beginning of a functional group and to provide control information

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	<b>Functional Identifier Code</b> <b>Description:</b> Code identifying a group of application related transaction sets <u>Code NAME</u> SI Shipment Information (858)	M	ID	2/2	Must use
GS02	142	<b>Application Sender's Code</b> <b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners Carrier SCAC	M	AN	2/15	Must use
GS03	124	<b>Application Receiver's Code</b> <b>Description:</b> Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	<b>Responsible Agency Code</b> <b>Description:</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard <u>Code NAME</u> X Accredited Standards Committee X12	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b> <b>Description:</b> Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user). <u>Code NAME</u> 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use

**Semantics:**

1. GS04 is the group date.
2. GS05 is the group time.

3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Comments:**

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code <b>Description:</b> Code uniquely identifying a Transaction Set <u>Code NAME</u> 858 Shipment Information	M	ID	3/3	Must use
ST02	329	Transaction Set Control Number <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use



**Segment:** **BX** General Shipment Information  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identification numbers and other basic shipment data  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
<b>BX01</b>	<b>353</b>	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set <u>Code</u> <u>NAME</u> 00 Original	<b>M</b>	<b>ID</b>	<b>2/2</b>	<b>Must use</b>
<b>BX02</b>	<b>91</b>	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment <u>Code</u> <u>NAME</u> A Air J Motor (use for TL) LT Less Than Trailer Load (LTL) R Rail S Ocean	<b>M</b>	<b>ID</b>	<b>1/2</b>	<b>Must use</b>
<b>BX03</b>	<b>146</b>	<b>Shipment Method of Payment</b> Code identifying payment terms for transportation charges <u>Code</u> <u>NAME</u> PP Prepaid (by Seller)	<b>M</b>	<b>ID</b>	<b>2/2</b>	<b>Must use</b>
<b>BX04</b>	<b>145</b>	<b>Shipment Identification Number</b> Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	<b>O</b>	<b>AN</b>	<b>1/30</b>	<b>Used</b>
<b>BX05</b>	<b>140</b>	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code	<b>O</b>	<b>ID</b>	<b>2/4</b>	<b>Used</b>
<b>BX06</b>	<b>188</b>	<b>Weight Unit Code</b> Code specifying the weight unit <u>Code</u> <u>NAME</u> L Pounds	<b>O</b>	<b>ID</b>	<b>1/1</b>	<b>Used</b>

**Segment:** **N9 Reference Identification**  
**Position:** 060  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 30  
**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier  
**Syntax Notes:**

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	<b>Reference Identification Qualifier</b>	M	ID	2/3	Must use
		Code qualifying the Reference Identification				
		<u>Code</u> <u>NAME</u>				
		11 Account Identification				
		12 Cost Center Identification				
		BM BOL Number				
		PO PO Number				
		A3 Asset Identification				
		AE Capital Request Identification				
		RU Route Number				
		TC Vendor Terms				
N902	127	<b>Reference Identification</b>	M	AN	1/30	Must use
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

**Segment:** **MEA** Measurements  
**Position:** 190  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)  
**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:**

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

**Comments:**

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies <u>Code NAME</u> WT Weights	O	ID	2/2	Not used
MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies <u>Code NAME</u> WT Weight	O	ID	1/3	Used
MEA03	739	<b>Measurement Value</b> The value of the measurement	C	R	1/20	Used
MEA04	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	C			
C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code NAME</u> GS Gross	M	ID	2/2	Used

**Segment:** **NTE** Note/Special Instruction  
**Position:** 280  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 50  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:****Semantic Notes:**

**Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NTE01	363	<b>Note Reference Code</b> Code identifying the functional area or purpose for which the note applies	O	ID	3/3	Used
		<u>Code</u> <u>NAME</u> BOL Bill of Lading Note				
NTE02	352	<b>Description</b> A free-form description to clarify the related data elements and their content	M	AN	1/80	Used

**Segment:** **N7** **Equipment Details**  
**Position:** 330  
**Loop:** N7 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify the equipment  
**Syntax Notes:**

- 1 If either N703 or N704 is present, then the other is required.
- 2 If either N705 or N716 is present, then the other is required.
- 3 If either N708 or N709 is present, then the other is required.

**Semantic Notes:**

- 1 N712 is the owner of the equipment.
- 2 N723 is the operator or carrier of the rights of the equipment.

**Comments:**

- 1 N701 is mandatory for rail transactions.
- 2 N720 and N721 are expressed in inches.

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N701	206	<b>Equipment Initial</b> Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used
N702	207	<b>Equipment Number</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M	AN	1/10	Used
N703	81	<b>Weight</b> Numeric value of weight	C	R	1/10	Used
N704	187	<b>Weight Qualifier</b> Code defining the type of weight	C	ID	1/2	Used
		<u>Code</u> <u>NAME</u>				
		G Gross Weight				

**Segment:** **REF** Reference Identification  
**Position:** 360  
**Loop:** N7 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 5  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
 2 If either C04003 or C04004 is present, then the other is required.  
 3 If either C04005 or C04006 is present, then the other is required.  
**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.  
**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M	ID	2/3	Used
		<u>Code</u> <u>NAME</u> 17 Client Reporting Category				
REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Used

**Segment:** **N1** Name  
**Position:** 390  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**

- 1 At least one of N102 or N103 is required.
- 2 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 N105 and N106 further define the type of entity in N101.
- \* This segment is required by TSi Logistics.

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual				
		<u>Code NAME</u>				
		BT Bill-to-Party				
		CN Consignee				
		SH Shipper				
N102	93	Name	M	AN	1/60	Must use
		<b>Description:</b> Free-form name				

**Segment:** **N3** Address Information  
**Position:** 410  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** \* This segment is required by TSi Logistics.

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use



<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	420
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	1 If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<p>1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.</p> <p>2 N402 is required only if city name (N401) is in the U.S. or Canada.</p> <p>* This segment is required by TSi Logistics.</p>

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name	M	AN	2/30	Must use
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Must use
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M	ID	3/15	Must use
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	M	ID	2/3	Must use

**Segment:** **S5** Stop-off Details  
**Position:** 450  
**Loop:** S5 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify stop-off detail reference numbers and stop reason  
**Syntax Notes:**

- 1 If either S503 or S504 is present, then the other is required.
- 2 If either S505 or S506 is present, then the other is required.
- 3 If either S507 or S508 is present, then the other is required.

**Semantic Notes:**

- 1 S509 is the stop reason description.

**Comments:**

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
S501	165	<b>Stop Sequence Number</b> Identifying number for the specific stop and the sequence in which the stop is to be performed	M	N0	1/3	Must use
S502	163	<b>Stop Reason Code</b> Code specifying the reason for the stop	M	ID	2/2	Must use
		<u>Code NAME</u>				
		CL Complete				
		IN Inspection				
		LD Load				
		PU Part Unload				
		UL Unload				

**Segment:** **G62** Date/Time  
**Position:** 460  
**Loop:** S5 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 6  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of G6201 or G6203 is required.
- 2 If either G6201 or G6202 is present, then the other is required.
- 3 If either G6203 or G6204 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
G6201	432	<b>Date Qualifier</b> <b>Description:</b> Code specifying type of date <b>Code NAME</b>	M	ID	2/2	Must use
		11 Shipped on This Date 68 Requested Delivery Date				
G6202	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use

**Segment:** **N9 Reference Identification**  
**Position:** 470  
**Loop:** S5 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier  
**Syntax Notes:**

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	<b>Reference Identification Qualifier</b>	M	ID	2/3	Must use
		Code qualifying the Reference Identification				
		<u>Code</u> <u>NAME</u>				
		11 Account Identification				
		13 Cost Center Identification				
		BM BOL Number				
		PO PO Number				
		A3 Asset Identification				
		AE Capital Request Identification				
		RU Route Number				
		TC Vendor Terms				
N902	127	<b>Reference Identification</b>	M	AN	1/30	Must use
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

**Segment:** **N1** Name  
**Position:** 490  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**

- 1 At least one of N102 or N103 is required.
- 2 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 N105 and N106 further define the type of entity in N101.

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual				
		<u>Code NAME</u>				
		BT		Bill-to-Party		
		CN		Consignee		
		SH		Shipper		
N102	93	Name	M	AN	1/60	Must use
		<b>Description:</b> Free-form name				

**Segment:** **N3** Address Information  
**Position:** 510  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use

<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	520
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	1 If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.</li> <li>2 N402 is required only if city name (N401) is in the U.S. or Canada.</li> </ol>

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name	M	AN	2/30	Must use
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Must use
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M	ID	3/15	Must use
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	M	ID	2/3	Must use

**Segment:** **HL** Hierarchical Level  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:****Semantic Notes:**

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Not used
HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure <u>Code NAME</u> 9 Line Detail	M	ID	1/2	Must use
HL04	736	<b>Hierarchical Child Code</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Not used



**Segment:** **N9 Reference Identification**  
**Position:** 100  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier  
**Syntax Notes:**

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	<b>Reference Identification Qualifier</b>	M	ID	2/3	Must use
		Code qualifying the Reference Identification				
		<u>Code</u> <u>NAME</u>				
		11 Account Identification				
		14 Cost Center Identification				
		BM BOL Number				
		PO PO Number				
		A3 Asset Identification				
		AE Capital Request Identification				
		RU Route Number				
		TC Vendor Terms				
N902	127	<b>Reference Identification</b>	M	AN	1/30	Must use
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

- Segment:** **L0** Line Item - Quantity and Weight
- Position:** 145
- Loop:** L0 Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data
- Syntax Notes:**
- 1 If either L002 or L003 is present, then the other is required.
  - 2 If either L004 or L005 is present, then the other is required.
  - 3 If either L006 or L007 is present, then the other is required.
  - 4 If either L008 or L009 is present, then the other is required.
  - 5 If L011 is present, then L004 is required.
  - 6 If either L013 or L015 is present, then the other is required.
- Semantic Notes:**
- 1 L008 is the number of handling units of the line item tendered to the carrier.
  - 2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
  - 3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
- Comments:**
- 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L001	213	<b>Lading Line Item Number</b> <b>Description:</b> Sequential line number for a lading item	O	N0	1/3	Used
L002	220	<b>Billed/Rated-as Quantity</b> <b>Description:</b> Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	C	R	1/11	Used
L003	221	<b>Billed/Rated-as Qualifier</b> <b>Description:</b> Code identifying the type of quantity or value on which the rate or item pricing is based <u>Code Name</u> LC 100 Pounds	C	ID	2/2	Used
L004	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	C	R	1/10	Used
L005	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight <u>Code Name</u> G Gross Weight	C	ID	1/2	Used
L008	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	C	N0	1/7	Used
L009	211	<b>Packaging Form Code</b> <b>Description:</b> Code for packaging form of the lading quantity <u>Code Name</u> PCS Pieces	C	ID	3/3	Used
L011	188	<b>Weight Unit Code</b> <b>Description:</b> Code specifying the weight unit	O	ID	1/1	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		L Pounds				

**Segment:** **L1 Rate and Charges**  
**Position:** 150  
**Loop:** L0 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

**Syntax Notes:**

- 1 If either L102 or L103 is present, then the other is required.
- 2 At least one of L104 L105 or L106 is required.
- 3 If either L114 or L115 is present, then the other is required.
- 4 If either L117 or L118 is present, then the other is required.

**Semantic Notes:**

- 1 L119 is the percent used to determine the charge in L104.
- 2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.
- 3 L121 is the origin rated as charge amount.

**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L101	213	<b>Lading Line Item Number</b> <b>Description:</b> Sequential line number for a lading item	O	N0	1/3	Used
L102	60	<b>Freight Rate</b> <b>Description:</b> Rate that applies to the specific commodity	C	R	1/9	Used
L103	122	<b>Rate/Value Qualifier</b> <b>Description:</b> Code qualifying how to extend charges or interpret value	C	ID	2/2	Used
		<u>Code Name</u>				
		CT Charge or Credit Based on Percentage of Total				
		MN Minimum				
		PH Per Hundred (of Basic Unit)				
		VS Various				
L104	58	<b>Charge</b> <b>Description:</b> For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	C	N2	1/12	Used
L108	150	<b>Special Charge or Allowance Code</b> <b>Description:</b> Code identifying type of special charge or allowance	O	ID	3/3	Used
		<b>User Note 1:</b> DO NOT TRANSMIT MINIMUM CODE IN THIS ELEMENT. MN MUST BE IN L103.				
		<u>Code Name</u>				
		420 Hazardous Materials Handling Fee - Domestic				
		COL Fee for Collecting COD Charge				
		DIV Diversion and Reconsignment				
		DSC Discount				
		DTB Detention (Labor)				
		DTU Detention Unloading				
		DTV Detention (Vehicle)				
		FUE Fuel Charge				
		HZC Hazardous Materials Surcharge Charge				
		IDL Inside Delivery				
		LDG Loading				
		LFT Lift Gate (Truck) or Forklift Service at Pick-up/Delivery				
		SAT Saturday Pick-up or Delivery Charge				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L112	276	<b>Special Charge Description</b> <b>Description:</b> Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150	O	AN	2/25	Used

**Segment:** **MEA** Measurements  
**Position:** 160  
**Loop:** L0 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)  
**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:**

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

**Comments:**

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies <u>Code NAME</u> WT Weights	O	ID	2/2	Not used
MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies <u>Code NAME</u> WT Weight	O	ID	1/3	Used
MEA03	739	<b>Measurement Value</b> The value of the measurement	C	R	1/20	Used
MEA04	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	C			
C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code NAME</u> GS Gross	M	ID	2/2	Used

**Segment:** **L3 Total Weight and Charges**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

**Syntax Notes:** 1 If either L301 or L302 is present, then the other is required.

2 If either L303 or L304 is present, then the other is required.

3 If either L309 or L310 is present, then the other is required.

4 If L312 is present, then L301 is required.

5 If either L314 or L315 is present, then the other is required.

**Semantic Notes:** 1 L305 is the total charges.

**Comments:**

**Data Element Summary**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L301	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	C	R	1/10	Used
L302	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight <u>Code Name</u> G Gross Weight	C	ID	1/2	Used
L305	58	<b>Charge</b> <b>Description:</b> For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	O	N2	1/12	Used
L311	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	O	N0	1/7	Used

**Segment:** **SE** Transaction Set Trailer  
**Position:** 080  
**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.

#### Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use



**GE****Functional Group Trailer**

<b>Pos:</b>	<b>Max: 1</b>
<b>- Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	<b>Number of Transaction Sets Included</b> <b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use

**Semantics:**

1. 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:**

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

# IEA

## Interchange Control Trailer

<b>Pos:</b>	<b>Max: 1</b>
- Mandatory	
<b>Loop: N/A</b>	<b>Elements: 2</b>

To define the end of an interchange of zero or more functional groups and interchange-related control segments

**Element Summary:**

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