



EDI Specifications
Version 4010 / Transaction Set 310
Freight Receipt and Invoice (Ocean)

310 Freight Receipt and Invoice (Ocean)

Functional Group ID=**IO**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Freight Receipt and Invoice (Ocean) Transaction Set (310) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide ocean bill of lading information. It is sent by ocean carriers to interested parties and can be used as the receipt for the shipment; to substitute for a paper bill of lading where the parties have agreed that a paper bill of lading is not necessary; to allow shipper or forwarder to verify bill of lading information before an original is printed and released; for information purposes, i.e., as a bill of lading copy; by the carrier to convey manifest information to a terminal operator; and as an invoice for freight.

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	020	B3	Beginning Segment for Carrier's Invoice	M	1		
	030	B2A	Set Purpose	O	1		
	040	Y6	Authentication	O	2		
	050	G3	Compensation Information	O	1		
	060	N9	Reference Identification	O	15		
M	070	V1	Vessel Identification	M	2		
	110	C3	Currency	O	1		
						LOOP ID - N1	10
M	130	N1	Name	M	1		
M	150	N3	Address Information	M	2		
M	160	N4	Geographic Location	M	1		
	170	G61	Contact	O	3		
						LOOP ID - R4	20
M	180	R4	Port or Terminal	M	1		
	190	DTM	Date/Time Reference	O	15		
						LOOP ID - C8	20
	240	C8	Certifications and Clauses	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 - LX	999
M	010	LX	Assigned Number	M	1		
						LOOP ID - L0	120
	150	L0	Line Item - Quantity and Weight	O	1		
	160	L5	Description, Marks and Numbers	O	999		
						LOOP ID - L1	20
	170	L1	Rate and Charges	O	1		
	180	C3	Currency	O	1		

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>
M	010	L3	Total Weight and Charges	M	1		
	050	V9	Event Detail	O	10		
	070	L11	Business Instructions and Reference Number	O	1		
M	080	SE	Transaction Set Trailer	M	1		

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	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information Description: 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	Security Information Qualifier Description: Code to identify the type of information in the Security Information	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information Description: 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	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 01 Duns (Dun & Bradstreet) 02 SCAC (Standard Carrier Alpha Code)				
ISA06	I06	Interchange Sender ID Description: 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	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID Description: 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	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time	M	TM	4/4	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>
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier Description: 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 NAME</u> U U.S. EDI Community of ASC X12	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: This version number covers the interchange control segments <u>Code 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	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) <u>Code NAME</u> 0 No Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information <u>Code NAME</u> P Production Data	M	ID	1/1	Must use
ISA16	I15	Component Element Separator Description: 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**

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

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	Functional Identifier Code Description: Code identifying a group of application related transaction sets <u>Code NAME</u> IO Ocean Freight Receipt and Invoice (310)	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners Carrier SCAC	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: 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	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: 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	Version / Release / Industry Identifier Code Description: 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 Description: Code uniquely identifying a Transaction Set <u>Code NAME</u> 310 Freight Receipt and Invoice (Ocean)	M	ID	3/3	Must use
ST02	329	Transaction Set Control Number Description: 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: **B3 Beginning Segment for Carrier's Invoice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit basic data relating to the carrier's invoice
Syntax Notes: 1 If either B309 or B310 is present, then the other is required.
Semantic Notes: 1 B306 is the billing date.
 2 On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.
 3 If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.

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>
B301	147	Shipment Qualifier Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	1/1	Used
B302	76	Invoice Number Identifying number assigned by issuer Bill of Lading Number	M	AN	1/22	Must use
B303	145	Shipment Identification Number 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)	O	AN	1/30	Used
B304	146	Shipment Method of Payment Code identifying payment terms for transportation charges <u>Code NAME</u> CC Collect PP Prepaid	M	ID	2/2	Must use
B305	188	Weight Unit Code Code specifying the weight unit Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	1/1	Used
B306	373	Date Date expressed as CCYYMMDD Invoice Date	M	DT	8/8	Must use
B307	193	Net Amount Due Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified Billed Amount	M	N2	1/12	Must use
B308	202	Correction Indicator Code used to indicate that the transaction set contains information which corrects previous information Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	2/2	Not used
B309	32	Delivery Date Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD	C	DT	8/8	Used
B310	374	Date/Time Qualifier Code specifying type of date or time, or both date and time <u>Code NAME</u> 140 Actual	C	ID	3/3	Used
B311	140	Standard Carrier Alpha Code Standard Carrier Alpha Code Carrier SCAC	M	ID	2/4	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>
B312	373	Date	O	DT	8/8	Used

Date expressed as CCYYMMDD

Segment: **B2A Invoice Type**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To allow for positive identification of transaction set purpose
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>
B2A01	353	Transaction Type Code	M	ID	2/2	Must use
		Code specifying the type of transaction				
		<u>Code</u> <u>NAME</u>				
		00 Original				

Segment: **Y6 Authentication**
Position: 040
Loop:
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the authority for authorizing an action and the date authentication is made
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>
Y601	313	Authority Identifier Code Code indicating authority for authentication <u>Code NAME</u> CA Carrier	O	ID	2/2	Used
Y602	151	Authority Name or code of authority for authorizing action or reservation	M	AN	1/20	Must use
Y603	275	Authorization Date Date authentication is made expressed in format CCYYMMDD	M	DT	8/8	Must use

Segment: **G3 Compensation Information**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To convey brokerage, freight forwarder compensation, and other compensation information related to shipments

Syntax Notes:**Semantic Notes:**

Comments: 1 G305 is the amount on which compensation is based.

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>
G301	315	Compensation Paid Commission paid to broker for services rendered	O	R	2/5	Not used
G302	317	Total Compensation Amount Amount calculated from brokerage amount Required for EDI; Not used by TSi	M	N0	3/10	Not used
G303	93	Name Free-form name	O	AN	1/60	Not used
G304	201	Business Transaction Status Code indicating the status of an ocean business transaction as it relates to the processing of ocean bills of lading	O	ID	1/3	Used
		<u>Code</u> <u>NAME</u>				
		TCR Transaction Completely Rated				
		TPR Transaction Partially Rated				
		TNR Transaction Not Rated				

Segment: **N9 Reference Identification**
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: 15
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	Reference Identification Qualifier Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>NAME</u>				
		3X Subcontract Number				
		61 Taxing Authority Identification Number				
		BM BOL Number				
		BN Booking Number				
		CE Class of Contract Code				
		CG Consignee's Order Number				
		CH Customer catalog number				
		CQ Customs House Broker License Number				
		CT Contract Number				
		DO Delivery Order Number				
		ED Export Declaration				
		EI Employer's Identification Number				
		FI File Identifier				
		FM Federal Maritime Commission (FMC) Forwarders Number				
		FN Forwarder's/Agent's Reference Number				
		IB In Bond Number				
		KL Contract Reference				
		MA Ship Notice/Manifest Number				
		OB Ocean Bill of Lading				
		OU Tariff Supplement Number				
		PO PO Number				
		PR Price Quote Number				
		RF Export Reference Number				
		RP Repetitive Pattern Code				
		SI Shipper's Identifying Number for Shipment (SID)				
		TG Transportation Control Number (TCN)				
		TJ Federal Taxpayer's Identification Number				
		VA Vessel Agent Number				
		IZ Financial Detail Code				
N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use

Segment: **V1 Vessel Identification**
Position: 070
Loop:
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To provide vessel details and voyage number
Syntax Notes: 1 At least one of V101 or V102 is required.
 2 If V108 is present, then V101 is required.
Semantic Notes: 1 V103 is the code identifying the country in which the ship (vessel) is registered.
 2 V105 identifies the ocean carrier.
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>
V101	597	Vessel Code Code identifying vessel	C	ID	1/8	Used
V102	182	Vessel Name Name of ship as documented in "Lloyd's Register of Ships"	C	AN	2/28	Used
V103	26	Country Code Code identifying the country	O	ID	2/3	Used
V104	55	Flight/Voyage Number Identifying designator for the particular flight or voyage on which the cargo travels	O	AN	2/10	Used
V105	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	ID	2/4	Used
V108	897	Vessel Code Qualifier Code specifying vessel code source	O	ID	1/1	Used
		<u>Code NAME</u>				
		C Ship's Radio Call Signal				
		L Lloyd's Register of Shipping				

Segment: **C3** Currency
Position: 110
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:

- 1 C301 is the billing currency.
- 2 C303 is the payment currency.
- 3 C304 is the rated currency.

Comments:

- 1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.

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>
C301	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Must use

Segment: **N1 Name**
Position: 130
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
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 Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		<u>Code NAME</u>				
		BT Bill-to-Party				
		CN Consignee				
		FW Forwarder				
		N1 Notify Party no. 1				
		N2 Notify Party no. 2				
		BL Party to receive the B/L				
		SH Shipper				
N102	93	Name Description: Free-form name	M	AN	1/60	Must use

Segment: **N3 Address Information**
Position: 140
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
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	M	AN	1/55	Must use
		Description: Address information				

Segment:	N4 Geographic Location
Position:	160
Loop:	N1 Mandatory
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	1 If N406 is present, then N405 is required.
Semantic Notes:	
Comments:	<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	City Name Description: Free-form text for city name	M	AN	2/30	Must use
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Must use
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M	ID	3/15	Must use
N404	26	Country Code Description: Code identifying the country	M	ID	2/3	Must use

Segment: **G61 Contact**
Position: 170
Loop:
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom communications should be directed
Syntax Notes: 1 If either G6103 or G6104 is present, then the other is required.
Semantic Notes:
Comments: 1 G6103 qualifies G6104.

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>
G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named <u>Code NAME</u> CN General Contact EM Emergency Contact HM Hazardous Material Contact IC Information Contact RE Receiving Contact SH Shipper Contact	M	ID	2/2	Must use
G6102	93	Name Free-form name	M	AN	1/60	Must use
G6103	365	Communication Number Qualifier Code identifying the type of communication number <u>Code NAME</u> EM Electronic Mail FX Facsimile IT International Telephone TE Telephone	C	ID	2/2	Used
G6104	364	Communication Number Complete communications number including country or area code when applicable	C	AN	1/80	Used

Segment: **R4 Port or Terminal**
Position: 180
Loop: R4 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Syntax Notes: 1 If either R402 or R403 is present, then the other is required.
Semantic Notes:
Comments: 1 R4 is required for each port to be identified.

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>
R401	115	Port or Terminal Function Code Code defining function performed at the port or terminal with respect to a shipment Refer to 004010 Data Element Dictionary for acceptable code values.	M	ID	1/1	Must use
R402	309	Location Qualifier Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	C	ID	1/2	Used
R403	310	Location Identifier Code which identifies a specific location	C	AN	1/30	Used
R404	114	Port Name Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	O	AN	2/24	Used
R405	26	Country Code Code identifying the country	O	ID	2/3	Used
R406	174	Terminal Name Free-form field for terminal name	O	AN	2/30	Used
R408	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used

Segment: **DTM** Date/Time Reference
Position: 190
Loop: R4 Mandatory
Level: Heading
Usage: Optional
Max Use: 15
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 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>
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time <u>Code NAME</u> 139 Estimated 140 Actual 369 Estimated Departure Date 370 Actual Departure Date 371 Estimated Arrival Date 372 Actual Arrival Date	M	ID	3/3	Must use
DTM02	373	Date Date expressed as CCYYMMDD	C	DT	8/8	Used
DTM03	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)	C	TM	4/8	Used
DTM04	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 <u>Code NAME</u> LT Local Time	O	ID	2/2	Used

Segment: **C8** **Certifications and Clauses**
Position: 240
Loop: C8 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify applicable certifications and clauses
Syntax Notes: 1 At least one of C803 or C802 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>
C801	213	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Used
C802	246	Certification/Clause Code Code identifying certification/clause information Refer to 004010 Data Element Dictionary for acceptable code values.	C	ID	2/4	Used
C803	247	Certification/Clause Text Free-form description of commercial invoice certification/clause	C	AN	2/60	Used

Segment: **LX** Assigned Number
Position: 010
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To reference a line number in a transaction set
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>
LX01	554	Assigned Number Description: Number assigned for differentiation within a transaction set	M	N0	1/6	Must use

Segment: **L0** Line Item - Quantity and Weight

Position: 150

Loop: L0 Mandatory

Level: Detail

Usage: Mandatory

Max Use: 10

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.
- 2 **Do not send this segment for accessorial charges.**

* 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>
L001	213	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Used
L004	81	Weight Numeric value of weight	C	R	1/10	Used
L005	187	Weight Qualifier Code defining the type of weight <u>Code NAME</u> G Gross Weight	C	ID	1/2	Used
L008	80	Lading Quantity Number of units (pieces) of the lading commodity	M	N0	1/7	Must use
L009	211	Packaging Form Code Code for packaging form of the lading quantity <u>Code NAME</u> PCS Pieces	M	ID	3/3	Must use
L011	188	Weight Unit Code Code specifying the weight unit <u>Code NAME</u> L Pounds	O	ID	1/1	Used

Segment:	L5 Description, Marks and Numbers
Position:	160
Loop:	L0 Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	30
Purpose:	To specify the line item in terms of description, quantity, packaging, and marks and numbers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either L503 or L504 is present, then the other is required. 2 If L507 is present, then L506 is required. 3 If either L508 or L509 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 L502 may be used to send quantity information as part of the product description. * 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>
L501	213	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Used
L502	79	Lading Description Description of an item as required for rating and billing purposes Product Description	M	AN	1/50	Must use

Segment: **L1 Rate and Charges**

Position: 170

Loop: L1 Mandatory

Level: Detail

Usage: Mandatory

Max Use: 10

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:

* This segment is required by TSi Logistics for accessorial charges.

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	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Used
L103	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value <u>Code NAME</u> PS Per Shipment	C	ID	2/2	Used
L104	58	Charge 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 * Required when sending accessorial charges for a line item.	M	N2	1/12	Must use
L108	150	Special Charge or Allowance Code Code identifying type of special charge or allowance * Required when sending accessorial charges for a line item. Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	3/3	Must use
L112	276	Special Charge Description 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: **C3** **Currency**
Position: 180
Loop: L1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:

- 1 C301 is the billing currency.
- 2 C303 is the payment currency.
- 3 C304 is the rated currency.

Comments:

- 1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.

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>
C301	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Must use

Segment: **L3 Total Weight and Charges**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
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:

- * 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>
L301	81	Weight Numeric value of weight	M	R	1/10	Must use
L302	187	Weight Qualifier Code defining the type of weight	M	ID	1/2	Must use
		<u>Code NAME</u>				
		B Billed Weight				
L305	58	Charge 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	Lading Quantity Number of units (pieces) of the lading commodity	O	N0	1/7	Used

Segment: **V9 Event Detail**
Position: 050
Loop:
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify information about a specific event
Syntax Notes:

- 1 If either V910 or V911 is present, then the other is required.
- 2 If V913 is present, then V904 is required.
- 3 If V915 is present, then V909 is required.

Semantic Notes:

- 1 V903 is the event date.
- 2 V904 is the event time.
- 3 V909 is the Standard Point Location Code (SPLC) of the event shown in the V901.
- 4 V910 is the length of the time delay expressed in hours.
- 5 V913 reflects the time zone which the event time reflects.
- 6 V914 is the quantity of the fuel in gallons.
- 7 V915 is the Standard Point Location Code (SPLC) of the secondary point of the delay indicated in the V911.
- 8 V916 is the total number of rail cars associated with the event code in V901.
- 9 V917 is the total number of loaded cars associated with the event code in V901.
- 10 V918 is the total number of empty cars associated with the event code in V901.
- 11 V919 is the total Gross Tons of the cars identified in V916. Includes the gross weight of the loads and the tare weight of the empties.
- 12 V920 is the total outside foot length of the cars identified in V916, rounded off to the nearest foot.

Comments: * This segment is required by TSi Logistics for Delay Codes.

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>
V901	304	Event Code Code identifying the event about which a report is made <u>Code NAME</u> DEP Delivery Pending	M	ID	3/3	Must use
V902	106	Event Free-form description of event Delay Code	M	AN	1/25	Must use

Segment: **L11 Business Instructions and Reference Number**
Position: 070
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes:

- 1 At least one of L1101 or L1103 is required.
- 2 If either L1101 or L1102 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>
L1101	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
L1102	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	C		2/3	Used
L1103	352	Description A free-form description to clarify the related data elements and their content	C	AN	1/80	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	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: 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**

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

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	Number of Transaction Sets Included Description: 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	Group Control Number Description: 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**

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

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	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use