



EDI Specifications

Version 4010 / Transaction Set 210

Carrier Truckload Shipments

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210 Motor Carrier Freight Details and Invoice

Functional Group ID= **IM**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Freight Details and Invoice Transaction Set (210) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detail information for charges for services rendered by a motor carrier. It is used both as a motor carrier invoice to request payment or as details pertaining to motor freight shipment(s) charges.

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		
	040	C3	Currency	O	1		
	060	N9	Reference Identification	O	300		
M	070	G62	Date/Time	M	6		
	080	R3	Route Information	O	12		
LOOP ID - 0100						10	
M	110	N1	Name	M	1		
M	130	N3	Address Information	M	2		
M	140	N4	Geographic Location	M	1		
	150	N9	Reference Identification	O	5		
LOOP ID - 0200						10	
	160	N7	Equipment Details	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 - 0300						999	
	010	S5	Stop-off Details	O	1		n1
	020	N9	Reference Identification	O	10		
LOOP ID - 0310						2	
M	050	N1	Name	M	1		
M	070	N3	Address Information	M	2		
M	080	N4	Geographic Location	M	1		
LOOP ID - 0400						9999	
M	120	LX	Assigned Number	M	1		
	137	POD	Proof of Delivery	O			
M	140	L5	Description, Marks and Numbers	M	30		
	170	L0	Line Item - Quantity and Weight	O	10		
M	180	L1	Rate and Charges	M	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>
M	010	L3	Total Weight and Charges	M	1		
M	020	SE	Transaction Set Trailer	M	1		
M		GE	Functional Group Trailer	M	1		
M		IEA	Interchange Control Trailer	M	1		

Transaction Set Notes

1. Loops 0300, 0305, 0310 and 0320 shall only be used to identify all stop-off locations and associated data for loading and unloading of freight with the exception of the original stop-off location (shipper) for truckload carriers. The original stop-off location (shipper) shall be transmitted in loop 0100.

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 <u>Code NAME</u> 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Must use
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 <u>Code NAME</u> 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Must use
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 <u>Code NAME</u> 01 Duns (Dun & Bradstreet) 02 SCAC (Standard Carrier Alpha Code)	M	ID	2/2	Must use
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 <u>Code NAME</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined	M	ID	2/2	Must use
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 Description: Time of the interchange	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>
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

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> IM Motor Carrier Freight Details and Invoice (210)	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> 210 Motor Carrier Freight Details and Invoice	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 Pro 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) BOL Number * Note: The BOL Number is required either in the B303 or in the header N9 segment (with qualifier 'BM').	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 <u>Code NAME</u> L Pounds	O	ID	1/1	Used
B306	373	Date Date expressed as CCYYMMDD Invoice (Pro Number) 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	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 Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	3/3	Used
B311	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M	ID	2/4	Used

<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	Carrier SCAC Date Date expressed as CCYYMMDD	O	DT	8/8	Used

Segment: **C3** Currency
Position: 040
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	O	ID	3/3	Used
		Currency Code				
						Country
		AFA				Afghanistan
		AUD				Australia
		EUR				Belgium
		BRL				Brazil
		CAD				Canada
		CNY				China
		CUP				Cuba
		EGP				Egypt
		EUR				France
		EUR				Germany
		EUR				Greece
		HKD				Hong Kong
		INR				India
		EUR				Ireland
		EUR				Italy
		JPY				Japan
		MXN				Mexico
		EUR				Netherlands
		PHP				Philippines
		USD				Puerto Rico
		EUR				Spain
		USD				United States

Segment: **N9** Reference Identification
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: 300
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	Used
		<u>Code</u> <u>NAME</u>				
		PO PO Number				
		BM BOL Number				
		DO Delivery Order Number – V Number				
		11 Account Number				
		*Note: The BOL Number is required either in this header N9 segment with qualifier 'BM' or in the B303.				
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	Used

Segment: **G62** Date/Time
Position: 070
Loop: Heading
Level:
Usage: Mandatory
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:

- * 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>
G6201	432	Date Qualifier Description: Code specifying type of date <u>Code NAME</u> 11 Shipped on This Date 86 Actual Pickup Date	M	ID	2/2	Must use
G6202	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use

R3

Route Information - Motor

Pos: 080	Max: 12
Heading - Optional	
Loop: N/A	Elements: 4

To specify carrier and routing sequences and details

Element Summary:

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	R301	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M ID 2/4
M	R302	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement.	M ID 1/2
			<u>Code</u> <u>Description</u>	
			1 1 st Carrier after Origin Carrier	
M	R306	76	Invoice Number Identifying number assigned by issuer	M AN 1/22
M	R307	373	Date Date expressed as CCYYMMDD	M DT 8/8

Semantic Notes 1 R307 is the carrier's billing date.

Segment: **N1** Name
Position: 110
Loop: 0100 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 <u>Code NAME</u> BT Bill-to-Party CN Consignee SH Shipper	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	M	AN	1/60	Must use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <u>Code Name</u> 93 Code assigned by the organization originating the Transaction set.	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used

Segment: **N3** Address Information
Position: 130
Loop: 0100 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: 140
Loop: 0100 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: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
* 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>
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
		Country Code		Country		
		CA		Canada		
		CN		China		
		DE		Germany		
		GR		Greece		
		HK		Hong Kong		
		JP		Japan		
		MX		Mexico		
		PH		Philippines		
		PR		Puerto Rico		
		US		United States		

N9

Reference Identification

Pos: 150	Max: 5
Heading - Optional	
Loop: 0100	Elements: 2

To transmit identifying information as specified by the Reference Identification Qualifier

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 Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u>				
		BM Bill of Lading Number				
		PO Purchase Order Number				
		DO Delivery Order Number – V Number				
		11 Account Number				
		ST Store Number				
		LU Location Number				
		DP Department Number				
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Used

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 C0605 -- If N906 is present, then N905 is required

Semantics:

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

Segment: **N7** Equipment Details
Position: 160
Loop: 0200 Optional
Level: Heading
Usage: Mandatory
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 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>
N702	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M	AN	1/10	Used
N711	40	Equipment Description Code Code identifying type of equipment used for shipment	M	ID	2/2	Used
		Code		Description		
		BX		Boxcar		
		CH		Chassis		
		CN		Container		
		DD		Double-Drop Trailer		
		FT		Flat Bed Trailer		
		HV		High Cube Van		
		OV		Open Top Van		
		RA		Fixed-Rack, Flat Bed Trailer		
		RC		Refrigerated (Reefer) Car		
		RD		Fixed-Rack, Double-Drop Trailer		
		RR		Rail Car		
		RS		Fixed-Rack, Single-Drop Trailer		
		RT		Controlled Temperature Trailer (Reefer)		
		SD		Single-Drop Trailer		
		TA		Trailer, Heated/Insulated/Ventilated		
		TF		Trailer, Dry Freight		
		TG		Trailer, Tank (Gas)		
		TI		Trailer, Insulated		
		TJ		Trailer, Tank (Chemicals)		
		TK		Trailer, Tank (Food Grade-Liquid)		
		TL		Trailer, (Not Otherwise Specified)		
		TV		Truck, Van		
		TW		Trailer, Refrigerated		
N712	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	ID	2/4	Used
N715	567	Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	M	N0	4/5	Used

Segment: **S5** Stop-off Details
Position: 010
Loop: 0300 Optional
Level: Detail
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: **All 6 elements are required for each stop from origin including the final destination. Each stop must include actual pieces and weights corresponding to individual stop.**

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	Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed Consignee Sequence	M	N0	1/3	Must use
S502	163	Stop Reason Code Code specifying the reason for the stop Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	2/2	Must use
S503	81	Weight Numeric value of weight	M	R	1/10	Must use
S504	188	Weight Unit Code Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	1/1	Must use
S505	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	Must use
S506	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	M	ID	2/2	Must use
S509	352	Description A free-form description to clarify the related data elements and their content Product Description	O	AN	1/80	

Segment: **N9** Reference Identification
Position: 020
Loop: 0300 Optional
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	Reference Identification Qualifier Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>NAME</u>				
		PO PO Number				
		BM BOL Number				
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: **N1** Name
Position: 050
Loop: 0310 Mandatory
Level: Detail
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.

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 <u>Code NAME</u> BT Bill-to-Party CN Consignee SH Shipper	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	M	AN	1/60	Must use

Segment: N3 Address Information
Position: 070
Loop: 0310 Mandatory
Level: Detail
Usage: Mandatory
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	M	AN	1/55	Must use
		Description: Address information				

Segment: **N4 Geographic Location**
Position: 080
Loop: 0310 Mandatory
Level: Detail
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: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

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

Country Code	Country
CA	Canada
CN	China
DE	Germany
GR	Greece
HK	Hong Kong
JP	Japan
MX	Mexico
PH	Philippines
PR	Puerto Rico
US	United States

Segment: **LX** Assigned Number
Position: 120
Loop: 0400 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	M	N0	1/6	Must use
		Description: Number assigned for differentiation within a transaction set				

Segment: **POD** Proof of Delivery

Position: 137
Loop: 0400 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide proof of delivery
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	POD01	373	Date Date expressed as CCYYMMDD	M DT 8/8
	POD02	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)	O TM 4/8
M	POD03	93	Name Free-form name	M AN 1/60

Segment: **L5** Description, Marks and Numbers

Position: 140

Loop: 0400 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: 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: 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	M	N0	1/3	Must use
L502	79	Lading Description Description of an item as required for rating and billing purposes Product Description	M	AN	1/50	Must use

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

Position: 170

Loop: 0400 Optional

Level: Detail

Usage: Optional

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.**

3 **This segment is required by TSi Logistics to specify pieces and weights for a 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	Lading Line Item Number Sequential line number for a lading item	M	N0	1/3	Must use
L002	220	Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	M	R	1/11	Must use
L003	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	2/2	Must use
L004	81	Weight Numeric value of weight	M	R	1/10	Must use
L005	187	Weight Qualifier Code defining the type of weight Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	1/2	Must use
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 Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	3/3	Must use
L011	188	Weight Unit Code Code specifying the weight unit <u>Code NAME</u> L Pounds	M	ID	ID 1/1	Must use

Segment: **L1 Rate and Charges**

Position: 180

Loop: 0400 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.

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	M	N0	1/3	Must use
L102	60	Freight Rate Rate that applies to the specific commodity	C	R	1/9	Used
L103	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		CT Charge or Credit Based on Percentage of Total				
		MN Minimum				
		PH Per Hundred (of Basic Unit)				
		SY Square Yards				
		FR Flat Rate				
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: **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 <u>Code NAME</u> N Actual Net Weight	M	ID	1/2	Must use
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	M	N2	1/12	Must use
L311	80	Lading Quantity Number of units (pieces) of the lading commodity	M	N0	1/7	Must use

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

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

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