ROADWAY® Express

ANSI ASC X12
SHIPMENT STATUS
VERSION 004010

Revised 10/18/01

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ISO 9002 Certified

Dear Roadway Customer:

Thank you for your interest in trading shipment status messages with Roadway. This is the 214 implementation guide you requested. We look forward to working with you to implement the EDI transaction set 214. If you have any questions about the 214 or any other EDI issues, please feel free to contact one of the persons listed below.

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Preface

Purpose and Scope

The purpose of this guide is to provide Roadway's trading partners with the necessary information to accept shipment status messages, via EDI, from Roadway. The material presented here covers the 214 transaction set of Version 004 Release 010 of the ANSI ASC X12 standards.

American National Standards Institute Accredited Standards Committee X12

Roadway Express uses ANSI ASC X12 standard format transaction sets for the exchange of electronic documents with its EDI trading partners.

Roadway Express is a leader in the use of EDI in the transportation industry and firmly supports the use of ANSI ASC X12 standards in EDI trading partner relationships. The use of such standards cultivates a common language between trading partners and expedites EDI setup. A well developed EDI system provides numerous possibilities for expanding the business relationship.

Reference Material

ASCX12 Publications

• Electronic Data Interchange X12 Standards reflecting Version 004 Release 010 (004010), dated December 1997. This publication is available from DISA, 1800 Diagonal Road, Suite 200, Alexandria, VA 22314,(703)548-7005, WWW.DISA.ORG.

ATA Publications

• American Trucking Association's Motor Carrier Industry Guide to Electronic Data Interchange Implementation and Conventions, reflecting Version 004 Release 010 (004010), dated May 1998. This publication is available from the American Trucking Association's Information Technology Council, 2200 Mill Road, Alexandria, VA 22314.

Implementation

To implement an electronic Shipment Status system, the customer needs to give Roadway Express a listing of all their shipping and receiving locations. This list should include the business name of each location (this is crucial when selecting subsidiaries where names differ) and the complete address consisting of street, city, state, and zip. Also, the customer must determine whether status should be reported on inbound and/or outbound shipments. Normally, the traffic department can supply this information. It is recommended that only locations that will be tracked by your system be set up for electronic shipment status; otherwise, unwanted statuses will be sent costing both trading partners processing and transmission costs.

'Inbound shipments' are shipments coming inbound to your locations. 'Outbound shipments' are shipments being shipped from your locations. Shipment statuses can also be sent to third party payors. Following are examples of situations when a shipment status may be needed:

- A manufacturing firm wants the status of raw materials shipped to their processing plants. Thus, the manufacturer will request <u>inbound</u> shipments and supply Roadway with the processing plant locations.

- A retailer wants to track all merchandise shipped to 4 of their 6 distribution centers. Thus, the retailer will request <u>inbound</u> shipments and supply Roadway with the 4 locations.

- A manufacturer wants to keep track of all finished goods shipped from their west coast division. Thus, the manufacturer will request outbound shipments and supply us with the western division's locations.

Roadway Express will assign an internal customer code to these locations. Using this customer code, all of the new shipments for the selected locations will be captured. As an example, a shipment picked up today will be applied to the Shipment Status master file at approximately 7:30 a.m. tomorrow morning. Each day, the most recent status of the shipment will be applied to the master record until Roadway Express has transmitted a final status for the shipment.

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4010 Changes

For simplicity, the following table will identify segment replacements within the past few versions.

Older 214 Versions	4010
N9	L11
R3	MS3
Q5	AT7, MS1, MS2
H3	AT5
Q6	AT8

PO numbers are found in the SPO segment.

No longer available in 214:

- freight charges
- service standards.

AT7 (formerly the Q5) has changes to the structure and the data elements.

- If AT701 is present, the AT702 must be supplied and the AT703 and AT704 must be blank.

- If AT703 is present, the AT704 must be supplied and the AT701 and AT702 must be blank.

- The former old Roadway Q5 status codes AD and RB will now be supplied in the AT703 as AB and X9, respectively.

- The other Roadway status codes will be converted as follows:

ANSI Q501	4010 AT701
A	X4
AF	AF
AG	AG
AI	AI
AJ	AJ
AN	AN
CA	CA
D	D1
E	B6
HD	A7
J	J1
K	K1
O	OO
R	R1
S	S1

Roadway Express System Enhancements

As information, the following items are enhancements Roadway has taken advantage of as the 214 transaction set has evolved. If you are currently using a version older than M2/6, please take note of the following changes and new options which are now available.

1. Roadway no longer transmits the same status on a shipment more than once, unless specifically requested. Therefore, if no shipment status change has occurred since the last transmission, the shipment will not be included in the current transmission.

2. Since transaction set 214 now allows for multiple status loops, Roadway has taken advantage of the flexibility to provide more than one status per shipment per transaction. Some possible options are as follows:

   a. Send any & all statuses which have occurred since the last transmission.

      Example:

      .
      .
      .

          AT7***AF***NS***19980701*00000000*ET
              - Departed from pickup location on July 1, 1998.
          MS1*BROOKLYN*NY
              - The Roadway terminal is in Brooklyn, NY.
          MS2*RDWY*270867
              - The pickup trailer was 270867 and is owned by RDWY.
          AT7***AG***NS***19980707*00000000*ET
              - The shipment's estimated delivery date is July 7, 1998.
          MS1*MINNEAPOLIS*MN
              - The consignee's city and state is Minneapolis, MN.
          AT7***X4***AO***19980701*23590000*ET
              - The shipment is at a Roadway terminal. The last transfer (load, unload, arrival) was July 1, 1998 at 11:59 P.M.. The shipment may be delayed due to a weather related situation.
          MS1*BROOKLYN*NY
              - The Roadway terminal is in Brooklyn, NY.
          MS2*RDWY*270867
              - The shipment arrived at a Roadway terminal on this trailer or is being loaded onto this trailer.
              .
              .
              .

   b. Send only selected statuses which have occurred since the last transmission. For instance, you may request to see only arrival (at any terminal) and delivered statuses.

      Example:

      .
      .
      .

          AT7*****AB***HB*19980703*00000000*CT
              - The delivery appointment date was made with the consignee for July 3, 1998. The consignee did not request a time.
          AT7***X4***NS***19980701*23590000*ET
          MS1*BROOKLYN*NY
          MS2*RDWY*270867

```
AT7*D1*HB***19980703*12000000*CT
```
        - The shipment was delivered July 3, 1998. The status reason code states
          that the shipment was held pending appointment.
```
MS1*LINCOLNSHIRE*IL
```
        - The destination terminal is in Lincolnshire, IL.
```
MS2*SCAC*270866
```
        - The delivery trailer was 270866 and is owned by SCAC.
.
.
.

c.   Wait until the shipment has a delivered status before sending particular statuses. For instance, you may request to see only actual pickups, estimated deliveries, and delivered statuses when the shipment is delivered.

Example:
.
.
.
```
AT7*AF*NS***19980701*00000000*ET
MS1*BROOKLYN*NY
MS2*RDWY*270867
AT7*AG*NS***19980707*00000000*ET
MS1*MINNEAPOLIS*MN
AT7*D1*NS***19980703*1200000000*CT
MS1*LINCOLNSHIRE*IL
MS2*SCAC*270866
```
.
.
.

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System Considerations and Options

The following are some tips to consider when designing your system which will accept and process electronic shipment statuses.

- In some cases, status details (segment AT7) will be transmitted prior to shipment details.

- Multiple status details (AT7) for a shipment may occur in the same transmission.

- If no status change has occurred since the last transmission, by default the shipment will not be included in the current transmission.

- Any combination of the status codes can be requested. Roadway will include the statuses based on your company's requirements.

- The en route status ("B6") and the arrived status("X4") are reported only if they are the current status of the shipment when the statuses are extracted for transmission.

- Roadway prefers that you return a functional acknowledgment (transaction set 997) after the shipment status (transaction set 214) is received. The functional acknowledgment should have the sender and receiver IDs obtained from the 214 sender and receiver IDs. Normally, the EDI software automatically handles this function.

- Note that the "D1" status code (delivered) is not the only final status code for a Roadway shipment. Other possible final status codes include AN (delivered to air freight), AI (reconsigned/returned), A7 (shipment refused), and J1 (delivered to a connecting line). Hence, your computer system should anticipate multiple codes to close/complete a shipment.

- Roadway, like most carriers in the LTL trucking environment, uses only one LX segment per transaction/shipment. Since LTL carriers have only one stop-off per shipment, the LX01 is never incremented beyond "1".

- Roadway prefers our trading partners to use the ISA/IEA segments if possible.

- When designing or redesigning a shipment status system, please keep in mind the differences between Truckload (TL) and Less-Than-Truckload (LTL) data. For example, most LTL carriers normally do not make appointments to pickup shipments nor make appointments to deliver shipments. Also, most LTL carriers do not record the date and time of arrival at the customer's gate nor do they record the date and time if unloading, instead the delivery date is the "unload" date.

- EDI semantics state that the beginning segment of a loop must be present if any other segments in the loop are present. Therefore, we ask that you comply with this "standard". For example, if an N4 in loop 0100 is needed, the N1 in loop 0100 must be transmitted (N1 is the 1st segment in loop 0100).

- Please allow your system to take in 2 transmission files. You must make sure that you process the files in order, otherwise, the older statuses will overlay the newer statuses.

- Cost Savings - The 214 application has an option to only send the N1 through N4 (through G62 if you prefer) segments once. Subsequent transmissions for that shipment would not contain the N1 through N4 segments. Only corrections made to the shipment would cause the N1 through N4 segments to be resent at anytime.

SHIPMENT STATUS CODE EXPLANATIONS

X4=ARRIVED (ON HAND) AT TERMINAL LOCATION

The shipment is on hand at a Roadway terminal facility. City Name (MS101) and State/Prov Code (MS102) will identify the facility. When Equipment Nbr (MS202) is not present, it indicates the shipment is on the dock at the location of MS101 and MS102. The date and time is NOT the date and time the trailer arrived at the terminal facility. It is the date and time of the last movement, such as, trailer arrived, unloading, onhand, or loading at that terminal facility. Only one "X4" status will be sent while the shipment is at that terminal facility.

AF=ACTUAL PICKUP

The shipment has been picked up. The AT705 is the actual date the shipment was picked up. City Name (MS101) and State/Prov Code (MS102) identifies the pickup Roadway terminal facility. Equipment Nbr (MS202) will identify the trailer on which the shipment was picked up.

AG=ESTIMATED DELIVERY

An estimated delivery date is calculated at the time the shipment is picked up. The AT705 is the estimated date for delivery. The estimated delivery date is calculated at the time of pickup and is not changed as the shipment moves closer to its destination. City Name (MS101) and State/Prov Code (MS102) identifies the consignee's city and state.

AB=APPOINTMENT DATE

A delivery appointment has been set up between Roadway and the consignee based on requirements from the shipper or consignee. The AT705 and AT706 are the date and time of the appointment.

AI=RECONSIGNED

The consignee has changed. AT705 and AT706 are the actual date and time the shipment is reconsigned.

A3=RETURNED TO SHIPPER

The final status for this type of shipment. AT705 and AT706 are the actual date and time the shipment is returned.

AJ=TENDERED FOR DELIVERY

The tendered date for the shipment. AT705 and AT706 are the date and time the shipment is available for delivery. The AT706 is optional.

AN=DELIVERED TO AIR FREIGHT CARRIER

The final status for the shipment. AT705 and AT706 are the actual date and time the shipment is given to an air freight carrier.

CA=CANCELED

The shipment has been canceled/voided for one of numerous reasons. This is a final status. Currently, the AT705 and AT706 are the date and time the shipment was picked up; it does not reflect the issue date of the void.

D1=DELIVERED

The AT705 is the actual date the shipment was delivered to Consignee. City Name (MS101) and State/Prov Code (MS102) will identify the delivery Roadway terminal facility. The AT706 is optional and most likely will not be entered.

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B6=ESTIMATED TO ARRIVE (EN ROUTE) TO THE NEXT ROADWAY TERMINAL

The shipment is en route. The AT705 and AT706 are the estimated date and time the trailer will arrive at a Roadway terminal facility. City Name (MS101) and State/Prov Code (MS102) identifies the next destination Roadway terminal. Equipment Nbr (MS202) will identify the trailer on which the shipment is moving.

A7=REFUSED BY CONSIGNEE

Consignee refused the shipment. Examples of reasons for refusal include partial damage or partial shortage. AT705 and AT706 are the date and time the shipment was refused.

J1=DELIVERED TO A CONNECTING LINE (C/L)

Shipment has been delivered to a C/L. The AT705 and AT706 will be the date and time the shipment was delivered to the C/L. City Name (MS101) and State/Prov Code (MS102) will identify the Roadway terminal that delivered the shipment to a C/L.

K1=PROCESSING THROUGH CUSTOMS

Shipment is being processed or released at the Customs location specified in MS101 and MS102. AT705 and AT706 are the date and time pertaining to Customs.

OO=PAPERWORK RECEIVED, NO SHIPMENT OR NO EQUIPMENT

The paperwork has been received by the facility identified by City Name (MS101) and State/Prov Code (MS102) but the actual freight is missing. The previous terminal is notified and an en route status will be transmitted when the freight is re-routed. Equipment Nbr (MS202) will identify the trailer on which the paperwork arrived.

R1=RECEIVED FROM PRIOR CARRIER

The shipment was given to Roadway by another carrier. AT705 and AT706 are the actual date and time the shipment was received. The carrier's SCAC can be found in one of the MS3 segments. This status code takes the place of the AT701 "AF" (actual pickup).

X9=DELIVERY APPOINTMENT REQUESTED

Per customer requirements, Roadway has contacted the consignee to notify the consignee or make an appointment for delivery. The AT705 and AT706 are the date and time that Roadway contacted the consignee. The actual appointment date and time are in the AT7 segment when the AT703 is "AB".

S1=TRAILER SPOTTED AT CONSIGNEE'S LOCATION

The trailer containing the shipment has been dropped off at the consignee's location. AT705 and AT706 are the actual date and time the trailer was dropped at the consignee's location. The trailer number is found in the MS202.

Note: Status Date (AT705) and Status Time (AT706) will be in local time zone.

Electronic Data Interchange (EDI)

Communications

Roadway Express, Inc. has developed a communication network that provides the ability to transmit EDI transactions directly to EDI Trading Partners, the method preferred by Roadway.
However, if you prefer to use a third party Value Added Network, Roadway prefers Sterling Commerce Network or Kleinschmidt.

The Structure of an Electronic Transmission

An EDI transmission consists of one or more "envelopes" which identify the sender and receiver of the transaction set. ISA and IEA segments mark the beginning and the end of an envelope respectively. Within the envelope, the transaction sets are organized into one or more functional groups bounded by a GS and a GE segment. Figure 1 illustrates the format of an EDI transmission.

	Communication Protocol
ISA	Interchange Header
GS	Group Header
ST	Tran Header
	Tran Detail
SE	Tran Trailer
GE	Group Trailer
GS	Group Header
ST	Tran Header
	Tran Detail
SE	Tran Trailer
GE	Group Trailer
IEA	Interchange Trailer
	Communication Protocol
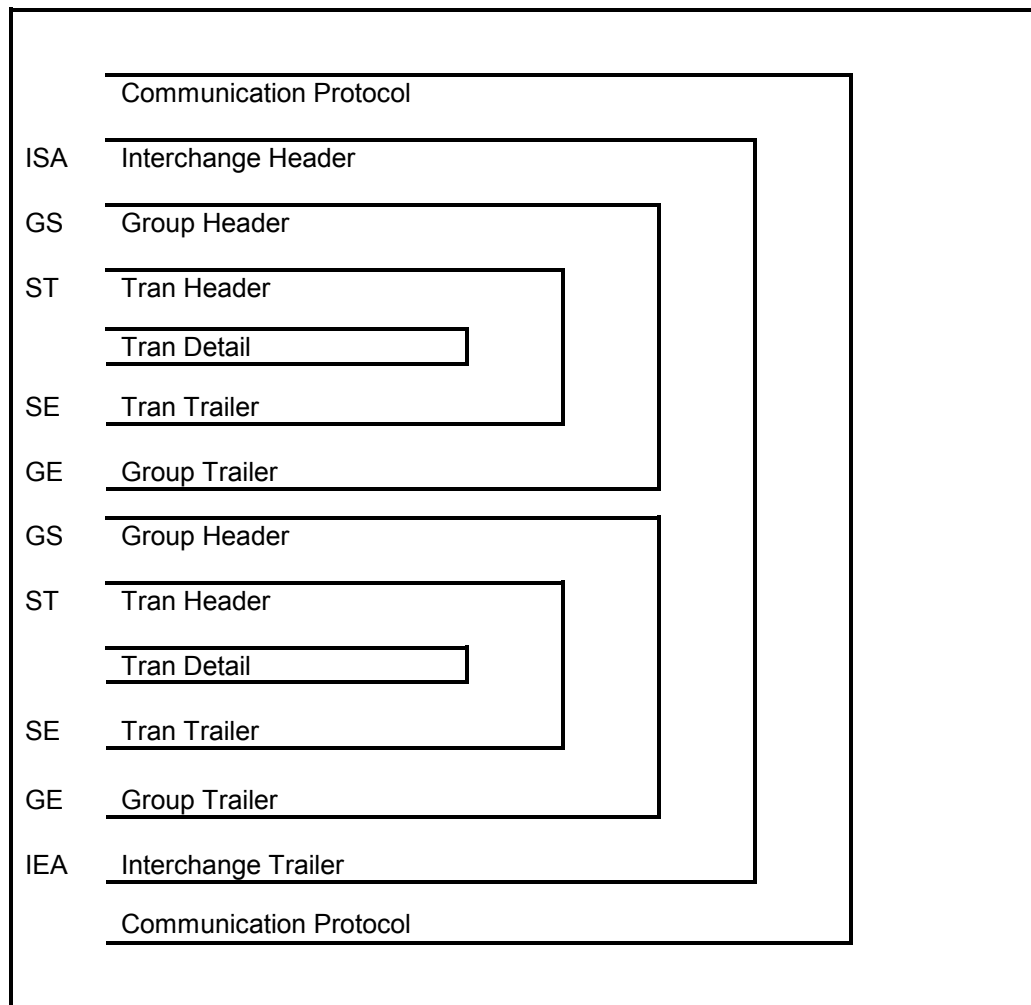
Figure 1: Transmission Structure

Transaction Structure

EDI transaction sets consist of a group of segments (records) arranged in a specific order. Most transactions have header level segments and detail level segments. There can also be repeated sets of segments referred to as loops.

Each segment begins with a segment identifier and ends with a segment terminator. The segment terminator is a special character agreed upon by sender and receiver to define the end of a segment. The most commonly used segment terminator is the hexadecimal '15' in EBCDIC (Extended Binary Coded Decimal Interchange Code) or '85' in ASCII (American Standard Code for Information Exchange).

Data elements (fields) within a segment are delimited by an element separator. The element separator is a special character agreed upon by sender and receiver. The most commonly used element separator is an asterisk (*), a hexadecimal '5C' for EBCDIC or hexadecimal '2A' for ASCII.

```
ST          Transaction Header

               Header Segments

            Detail Segments

            Summary Segments

SE          Transaction Trailer
```
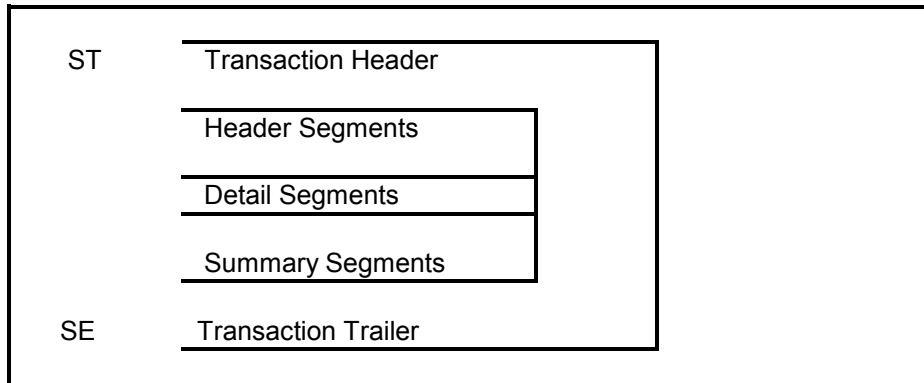
Figure 2: Transaction Structure

Notation Conventions

Segment Requirements

• (M) MANDATORY: The segment must be transmitted.

• (O) OPTIONAL: The segment may be transmitted if needed.

Element Requirements

• (M) MANDATORY: The data element must be transmitted.

• (O) OPTIONAL: The data element may be transmitted, if needed.

• (X) RELATIONAL: The data element's existence or absence is related to the existence or absence of another data element. The relationship is explained by a note following the segment definition. There could also be an alphabetic code to explain the relational condition.

• (Z) SEMANTIC: Refer to the Semantic note(s) for this data element.

• (C) CONDITIONAL: The data element must be transmitted under certain conditions.

• (P) PAIRED or MULTIPLE: If any element is transmitted, then all must be transmitted.

• (R) REQUIRED: At least one of the data elements specified must be transmitted.

• (E) EXCLUSIVE: Not more than one of the data elements specified can be transmitted.

• (L) LIST CONDITIONAL: If the first data element specified is transmitted, then at least one of the others must be transmitted. Any or all elements not specified as the first may be transmitted with the first data element.

• Each data element has a minimum and maximum length requirement.

• In a mandatory numeric data element the minimum characters, as defined in the data dictionary, must be transmitted even if the value is zero.

Data Types

• AN: Alphanumeric data elements containing the numerals 0-9, the characters A-Z and any special characters except asterisk (*), the greater than Sign (>) and the characters with a hexadecimal value of '40' or less. These characters are control characters and should not be used for data. The contents are left-justified.   Trailing spaces should be suppressed unless necessary to satisfy the minimum length requirement.

• R: (Real) numeric data containing the numerals 0-9 and a decimal point in the proper position. The decimal point is optional for integer values but required for fractional values. A leading + or - sign may be used. The minus sign must be used for negative values.

• Nn: Numeric data containing the numerals 0-9, and an implied decimal point. The 'N' indicates that the element contains a numeric value and the 'n' indicates the number of decimal places to the right of the implied decimal point. The actual decimal point is not transmitted. A leading + or - sign may be used. The minus sign must be used for negative values. Leading zeroes should be suppressed unless they are necessary to satisfy the minimum number of digits required by the data element specification. For a data element defined as N4 with a minimum length of 4, the value 0.0001 would be transmitted as '0001'. For an N4 data element with the minimum length of 1, the value 0.0001 would be transmitted '1'.

• ID: A data element identifier from a pre-defined list of values maintained by ASC X12.

• DT: Numeric date in the form YYYYMMDD.
• TM: Numeric time in the form HHMM. Time is represented in 24-hour clock format.

Data Element Reference Number

The Data Element Reference Number is a unique identifier used to aid in locating data element definitions in the applicable standards manual.

Transaction Set 214 Transportation Carrier Shipment Status Message

This transaction set can be used by a transportation carrier to provide shippers, consignees, and their agents with the status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance.

Table 1

Seg ID	Description	Req.	Max Use	Loop ID	Max Loops
ST	Transaction Set Header	M	1		
B10	Beginning Segment for Transportation Carrier Shipment Status Message	M	1		
L11	Business Instructions and Reference Number	O	300		
MAN	Marks and Numbers	O	9999		
K1	Remarks	O	10		
N1	Name	O	1	0100	10
N2	Additional Name Information	O	1	0100	
N3	Address Information	O	2	0100	
N4	Geographic Location	O	1	0100	
G61	Contact	O	1	0100	
G62	Date/Time	O	1	0100	
L11	Business Instructions and Reference Number	O	10	0100	
MS3	Interline Information	O	12	0100	
LX	Assigned Number	O	1	0200	999999
AT7	Shipment Status Details	O	1	0205	10
MS1	Equipment, Shipment, or Real Property Location	O	1	0205	
MS2	Equipment or Container Owner and Type	O	1	0205	
L11	Business Instructions and Reference Number	O	10	0200	
MAN	Marks and Numbers	O	9999	0200	
Q7	Lading Exception Code	O	10	0200	
K1	Remarks	O	10	0200	
AT5	Bill of Lading Handling Requirements	O	10	0200	
AT8	Shipment Weight, Packaging and Quantity Data	O	10	0200	
CD3	Carton (Package) Detail	O	1	0210	999999
L11	Business Instructions and Reference Number	O	20	0210	
AT7	Shipment Status Details	O	1	0215	10
MS1	Equipment, Shipment, or Real Property Location	O	1	0215	
MS2	Equipment or Container Owner and Type	O	1	0215	
NM1	Individual or Organizational Name	O	1	0210	
Q7	Lading Exception Code	O	10	0210	
AT8	Shipment Weight, Packaging and Quantity Data	O	1	0210	
MAN	Marks and Numbers	O	9999	0210	
N1	Name	O	1	0220	999999
N2	Additional Name Information	O	1	0220	
N3	Address Information	O	3	0220	
N4	Geographic Location	O	1	0220	
L11	Business Instructions and Reference Number	O	10	0220	

Seg ID	Description	Req.	Max Use	Loop ID	Max Loops

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PRF	Purchase Order Reference	O	1	0230	999999	
N1	Name	O	1	0231		
N2	Additional Name Information	O	1	0231		
N3	Address Information	O	2	0231		
N4	Geographic Location	O	1	0231		
L11	Business Instructions and Reference Number	O	10	0231		
CD3	Carton (Package) Detail	O	1	0233	999999	
L11	Business Instructions and Reference Number	O	20	0233		
AT7	Shipment Status Details	O	1	0240	10	
MS1	Equipment, Shipment, or Real Property Location	O	1	0240		
MS2	Equipment or Container Owner and Type	O	1	0240		
MAN	Marks and Numbers	O	9999			
SPO	Shipment Purchase Order Detail	O	1	0250	999999	
SDQ	Destination Quantity	O	10	0250		
EFI	Electronic Format Identification	O	1	0260	>1	
BIN	Binary Data	M	1	0260		
SE	Transaction Set Trailer	M	1			

Notes:
1/100 Status and appointment dates and times shall not be transmitted in the G62 segment.
1/210 Loops 0210, 0215 and 0220 shall be used in conjunction with loop 0200 to convey status for small package carrier shipments.

Roadway's 214 uses loops 0, 100, 200, 205, and 250.

214 Business Example

ISA*00*　　*00*　　*02*RDWY　　*01*012345678　*980806*1741*U*00400*000000008*0*T*>

GS*QM*RDWY*012345678*19980806*1741*8*X*004010

ST*214*000080001

B10*1877086586*3679DD*RDWY*3
　B1001 IS THE CARRIER'S PRO
　B1002 IS THE SHIPPER'S BILL OF LADING NUMBER

N1*SH*TREE DOCTOR INC.

N3*5 SLATE ST

N4*BROOKLYN*NY*11231

N1*CN*INTERN TECHNOLOGY

N3*333 ELMWOOD AVE

N4*MINNEAPOLIS*MN*55416

N1*TP*AAA PAYMENT CO.

N3*130 GLENWOOD AVE

N4*WYNCOTE*PA*19095

LX*1
　LX01 IS ALWAYS "1"

AT7*AF*NS***19980701*00000000*ET
　AT701 IS THE STATUS CODE
　AT702 IS PAIRED WITH THE AT701
　NS IS NORMAL STATUS

MS1*BROOKLYN*NY

MS2*RDWY*270867
　THE Q5 SEGMENT HAS BEEN REPLACED BY THE AT7, MS1, & MS2
　THE AT7, MS1, & MS2 ARE LOOP 0205

AT7*AG*NS***19980707*00000000*ET

MS1*MINNEAPOLIS*MN

AT7*X4*AO***19980701*23590000*ET

MS1*BROOKLYN*NY

MS2*RDWY*270867

AT8*G*L*80*1
　THE Q6 SEGMENT HAS BEEN REPLACED BY THE AT8

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214 Business Example (cont'd.)

ONLY ONE AT8 PER SHIPMENT (LOOP 0200)

SPO*CHE-033*013
  THE SPO SEGMENT IS AT THE END OF THE TRANSACTION (LOOP 0250)
  SPO01 CONTAINS THE PO NUMBER
  SPO02 IS THE DEPARTMENT NUMBER

SE*23*0000080001

ST*214*000080002

B10*1877092205*M7*1234A

N1*SH*SOIL SOLUTIONS

N3*57 MILLARD

N4*BROOKLYN*NY*11231

N1*CN*DIGGERS OF THE GROUND

N3*1234 ALGORND RD

N4*BUFFALO GROVE*IL*60089

N1*TP*AAA PAYMENT CO.

N3*130 GLENWOOD AVE

N4*WYNCOTE*PA*19095

MS3*SCAC*O*REWANDO
  THE R3 SEGMENT HAS BEEN REPLACED BY THE MS3

LX*1

AT7*D1*HB***19980701*12000000*CT

MS1*LINCOLNSHIRE*IL

MS2*SCAC*270866

AT8*G*L*1866*16

SPO*880161

SE*0000000019*000080002

ST*214*000080003

B10*1900141632**RDWY*3

N1*SH*PENCILS-R-US

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214 Business Example (cont'd.)

N3*59 INDUSTRIAL AVE

N4*PARAMUS*NJ*07652

N1*CN*HART MIDDLE SCHOOL

N3*123 ALPHABET RD

N4*ST LOUIS*MO*63106

N1*TP*AAA PAYCO

N3*130 GLENWOOD AVE

N4*WYNCOTE*PA*19095

LX*1

AT7*AF*NS***19980701*00000000*ET

MS1*CARLSTADT*NJ

MS2*RDWY*12267

AT7*AG*NS***19980707*00000000*ET

MS1*ST LOUIS*MO

AT7*B6*NS***19980702*03100000*ET

MS1*TANNERSVILLE*PA

MS2*SCAC*220393

AT8*G*L*118*1

SPO*8649-00*033*CT*1

SE*23*000080003

GE*3*8

IEA*1*000000008

Segment Definitions

ISA Interchange Control Header

Level: Control Segment
Loop:
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange related control segments.

Example: ISA*00*   *00*   *01*006998397 *01*123456789 *980518*00400*000000522*0*P*>

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Info. 00 - No Authorization information present	M	ID	2/2
02	I02	Authorization Information Information used for additional identification or authorization of the interchange sender or the data in the interchange. This field should be spaces	M	AN	10/10
03	I03	Security Information Qualifier Code to identify the type of information in the Security information. 00 - No Security Information	M	ID	2/2
04	I04	Security Information This is used for identifying the security information about the interchange sender or the data in the interchange. This field should be spaces	M	AN	10/10
05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. 01 - Duns Number 02 - SCAC 12 - Telephone Number ZZ - Mutually Defined	M	ID	2/2
06	I06	Interchange Sender ID Unique 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
07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. 01 - Duns Number 12 - Telephone Number ZZ - Mutually Defined	M	ID	2/2
08	I07	Interchange Receiver ID Unique identification code published by the receiver of the data.	M	AN	15/15
09	I08	Interchange Date Creation date of the interchange (YYMMDD).	M	DT	6/6

10	I09	Interchange Time	M	TM	4/4
		Creation time of the interchange (HHMM).			
11	I10	Interchange Control Standards Identifier	M	ID	1/1
		Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.			
		U - USA			
12	I11	Interchange Control Version Number	M	ID	5/5
		This version number covers the interchange control segments.			
		00400 - Standards issued as ANSI X12.5-1997			
13	I12	Interchange Control Number	M	N0	9/9
		A control number assigned by the interchange sender.			
		Must match IEA02			
14	I13	Acknowledgment Requested	M	ID	1/1
		Code sent by the sender to request an interchange acknowledgment (TA1).			
		0 - No TA1 requested			
15	I14	Test Indicator	M	ID	1/1
		Code to indicate whether data enclosed is test or production.			
		T - Test			
		P - Production			
16	I15	Component Element Separator	M		1/1
		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.			

IEA Interchange Control Trailer

Level: Control Segment
Loop:
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange; used with the ISA segment.

Example: IEA*1*000000522

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	I16	Number of included Functional Groups.	M	N0	1/5
02	I12	Interchange Control Number	M	N0	9/9

GS Functional Group Header

Level:	Control Segment
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a functional group and to provide control information

Semantic:	01	GS04 is the group date
	02	GS05 is the group time
	03	The date interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comment:	01	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.

Example: GS*QM*RDWY*123456789*19980518*0435*587*X*004010

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	479	Functional Identifier Code Code identifying a group of application related transaction sets. QM - Shipment Status	M	ID	2/2
02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners.	M	AN	2/15
03	124	Application Receiver's Code Code identifying party receiving transmission; Codes agreed to by both trading partners.	M	AN	2/15
04	373	Date Date (YYYYMMDD)	M	DT	8/8
05	337	Time Time (HHMM)	M	TM	4/8
06	28	Group Control Number Assigned number originated and maintained by the sender.	M	N0	1/9
07	455	Responsible Agency Code Code used in conjunction with data element 480 to identify the issuer of the standard. X - Accredited Standards Committee X12	M	ID	1/2
08	480	Version / Release / Industry Identifier Code Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used.	M	AN	1/12

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GE Functional Group Trailer

Level:	Control Segment
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of a functional group and to provide control information

Semantic: 01 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header GS06.

Comment: 01 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.

Example: GE*QM*RDWY*123456789*980518*0435*587*X*004010

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	97	Number of Transaction Sets Included	M	NO	1/6
02	28	Group Control Number	M	NO	1/9

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ST Starting Segment

Level:	Header
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number.

Semantic: 01   The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 810 selects the Invoice Transaction Set).

Example: ST*214*000010001

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction set. Code Definition 214 Shipment Status	M/Z	ID	3/3
02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. This number is composed of the 1 to 5 digit data interchange control number (5 low order digits from data element 28 from the associated functional header) subscripted with a 4 digit serial number beginning with 0001 which indicates the transaction set's position in the transmitted functional group. The subscripted 4 digit serial number is sequentially assigned by the sender and is incremented by one.	M	AN	4/9

B10 Beginning Segment for Transportation Carrier Shipment Status Message

Level: Header
Loop:
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers and other basic data relating to the transaction set.

Syntax: 01 R0106 - At least one of B1001 or B1006 is required.
02 E0105 - Only one of B1001 or B1005 may be present.
03 P0506 - If either B1005 or B1006 is present , then the other is required.

Semantic: 01 B1001 is the carrier assigned reference number.
02 B1007 indicates if the reference numbers included in this transmission were transmitted to the carrier via EDI or key entered by the Carrier. A "Y" indicates that the carrier received the reference numbers in an EDI transmission; an "N" indicates that the carrier did not receive the reference numbers in an EDI transmission and key entered the data from a shipper supplied document.

Comments: 01 B1001 is the carrier's PRO (invoice number) that identifies the shipment
02 B1003 is required when used in Transaction Set 214.

Notes: Required by the Motor Carrier Industry
If sub Bill of Lading numbers are used, the master Bill of Lading number would be identified in B1002. The sub Bill of Lading numbers would be identified in the L11 segment.

Example: B10*123456789X*A513186*SCAC*1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Roadway's 10 position Pro number.	X/Z	AN	1/30
02	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; shipper's bill of lading number.	O	AN	1/30
03	140	Standard Carrier Alpha Code SCAC	M	ID	2/4
04	71	Inquiry Request Number Identifying number assigned by inquirer.	O	N0	1/3
05	128	Reference Identification Qualifier Code qualifying the Reference Identification. This element is not used by Roadway.	X	ID	2/3
06	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. This element is not used by Roadway.	X	AN	1/30

07   1073   Yes/No Condition or Response Code   O/Z   ID   1/1
                          Code indicating a Yes or No condition or response.
                          <u>Code</u>   <u>Definition</u>
                            N   No
                            Y   Yes
                          This element is not used by Roadway.

L11 Business Instructions and Reference Number

Level:	Header
Loop:	
Usage:	Optional
Max Use:	300
Purpose:	To specify instructions in this business relationship or a reference number.

Syntax: 01 R0103 - At least one of L1101 or L1103 is required.
02 P0102 - If either L1101 or L1102 is present, then the other is required.

Comment: 01 This segment is used to supply reference numbers that pertain to all the shipments on the trailer.

Example: L11*123456*SO

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	127	Reference Identification Reference information as defined for a particular transaction set or as specified by the Reference Identification Qualifier.	X	AN	1/30
02	128	Reference Identification Qualifier Code qualifying the reference identification.	X	ID	2/3

Code　　Definition
AI　　Associated Invoices
BM　　Bill of Lading Number
BN　　Booking Number
CN　　Carrier's Reference Number (PRO/Invoice)
CO　　Customer Order Number
CR　　Customer Reference Number
MA　　Ship Notice/Manifest Number
OI　　Original Invoice Number
PK　　Packing List Number
RZ　　Returned Goods Authorization Number
SI　　Shipper's Identifying Number for Shipment (SID)
SO　　Shipper's Order (Invoice Number)
TN　　Transaction Reference Number

Ref. Des.	Data Element	Name	Attributes		
03	352	Description A free-form description to clarify the related data elements and their content. This element not used by Roadway.	X	AN	1/80

MAN Marks and Numbers

Level:	Header	
Loop:		
Usage:	Optional	
Max Use:	9999	
Purpose:	To indicate identifying marks and numbers for shipping containers.

Syntax: 01   P0405 - If either MAN04 or MAN05 is present, then the other is required.
          02   C0605 - If MAN06 is present, then MAN05 is required.

Semantic: 01   MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
          02   When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
          03   When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments: 01   When MAN01 contains code "UC" (U.P.C. Shipping Container code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
          02   MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
          03   When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
          04   This segment not used by Roadway.

Example: MAN*GM*123458923442**GM*00100280283000550039

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87). Code Definition CP Carrier-Assigned package ID number GM SSCC and Application Identifier	M/Z	ID	1/2
02	87	Marks and Numbers Marks and Numbers used to identify a shipment or parts of a shipment.	M/Z	AN	1/48
03	87	Marks and Numbers Marks and Numbers used to identify a shipment or parts of a shipment.	O	AN	1/48
04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87). Code Definition CP Carrier-Assigned package ID number GM SSCC and Application Identifier	X	ID	1/2
05	87	Marks and Numbers Marks and Numbers used to identify a shipment or parts of a shipment.	X/Z	AN	1/48
06	87	Marks and Numbers Marks and Numbers used to identify a shipment or parts of a shipment.	O	AN	1/48

K1 Remarks

Level: Header
Loop:
Usage: Optional
Max Use: 10
Purpose: To transmit information in a free-form format for comment or special instruction.

Comments: 01   This segment not used by Roadway.

Example: K1*FREE FORM MESSAGE

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	61	Free-Form Message Free-form information.	M	AN	1/30
02	61	Free-Form Message Free-form information.	O	AN	1/30

N1 Name

Level: Header
Loop: 0100
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.

Syntax: 01 R0203 - At least one of N102 or N103 is required.
02 P0304 - If either N103 or N104 is present, then the other is required.

Comments: 01 This segment is used to transmit shipper, consignee, and other third party related information.
02 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.
03 N105 and N106 further define the type of entity in N101.
04 The N103 and N104 (store #) can be sent if available in the data base.

Example: N1*CN*RETAILER*94*0222

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual.	M	ID	2/3

    Code   Definition
    CN   Consignee
    CS   Consolidator
    DT   Destination Terminal
    N5   Party Who Signed the Delivery Receipt
    OT   Origin Terminal
    SF   Ship From
    SH   Shipper
    ST   Ship To
    YE   Third Party

Ref. Des.	Data Element	Name	Attributes		
02	93	Name Free-form name.	X	AN	1/60
03	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (Element 67).	X	ID	1/2

    Code   Definition
    7   Loading Dock
    9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix
    12   Telephone Number (Phone)
    25   Carrier's Customer Code
    91   Assigned by Seller or Seller's Agent
    92   Assigned by Buyer or Buyer's Agent
    93   Code assigned by the organization originating the transaction set
    94   Code assigned by the organization that is the ultimate destination of the transaction set

04	67	Identification Code	X	AN	2/80
		Code identifying a party or other code. Store number or Distribution Center number if set up in Roadway's data base.			
05	706	Entity Relationship Code	O	ID	2/2
		Code describing entity relationship.			
06	98	Entity Identifier Code	O	ID	2/3

N2 Additional Name Information

      Level: Header
      Loop: 0100
     Usage: Optional
  Max Use: 1
  Purpose: To specify additional names or those longer than 60 characters in length.

  Example: N2*DOCK#4

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	93	Name Free-form name.	M	AN	1/60
02	93	Name Free-form name.	O	AN	1/60

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N3 Address Information

      Level: Header
      Loop: 0100
     Usage: Optional
  Max Use: 2
  Purpose: To specify the location of the named party.

  Example: N3*ATTN: JOHN DOE*2777 SOUTH RIDGE ROAD

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	166	Address Information The address of the entity described in the N101.	M	AN	01/55
02	166	Address Information	O	AN	01/55

N4 Geographic Location

Level: Header
Loop: 0100
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.

Syntax: 01   C0605 - If N406 is present, then N405 is required.

Comment: 01   A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02   N402 is required only if city name (N401) is in the U.S. or Canada.

Example: N4*LAKELAND*FL*33802

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	19	City Name Free-form text for city name.	O	AN	02/30
02	156	State/Province Code Code (Standard State/Province) as defined by appropriate government agency.	O	ID	02/02
03	116	Postal Code Code defining the international postal zone code excluding punctuation and blanks (zip code for United States).	O	ID	03/15
04	26	Country Code Code identifying the country if other than the United States.	O	ID	02/03
05	309	Location Qualifier Code identifying the type of location.	X	ID	01/02
06	310	Location Identifier Code which identifies a specific location.	O	AN	01/30

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G61 Contact

      Level: Header
      Loop: 0100
     Usage: Optional
  Max Use: 1
   Purpose: To identify a person or office to whom communications should be directed.

    Syntax: 01   P0304 - if either G6103 or G6104 is present, then the other is required.

 Comment: 01   G6103 qualifies G6104.

  Example: G61*CA*JOHN DOE

<div align="center">Data Element Summary</div>

Ref. Des.	Data Element	Name	Attributes		
01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. Code Definition CA Customer Contact Granting Appointment CW Confirmed With DC Delivery Contact SC Schedule Contact	M	ID	02/02
02	93	Name Free-form name.	M	AN	01/60
03	365	Communication Number Qualifier Code identifying the type of communication number. Code Definition TE Telephone This element is not used by Roadway.	X	ID	02/02
04	364	Communication Number Complete communications number including country or area code when applicable. This element is not used by Roadway.	X	AN	01/80
05	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number. This element is not used by Roadway.	O	AN	01/20

G62 Date/Time

Level: Header
Loop: 0100
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times.

Syntax: 01   R0103 - At least one of G6201 or G6203 is required.
           02   P0102 - If either G6201 or G6202 is present, then the other is required.
           03   P0304 - If either G6203 or G6204 is present, then the other is required.

Example: G62*86*19980707

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	432	Date Qualifier Code specifying type of date. Code Definition 17 Estimated Delivery Date This is the estimated arrival date at the consignee's location. 86 Actual Pickup Date	M	ID	2/2
02	373	Date Date expressed as YYYYMMDD.	M	DT	8/8
03	176	Time Qualifier Code specifying the reported time. This element is not used by Roadway.	O	ID	1/2
04	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
05	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by + 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. See External Code Source 94 in Chapter IX of the ATA Guide for Reference Document. ET - Eastern time CT - Central time MT - Mountain time PT - Pacific time	O	ID	2/2

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L11 Business Instructions and Reference Number

Level:	Detail
Loop:	0100
Usage:	Optional
Max Use:	10
Purpose:	To specify instructions in this business relationship or a reference number.

Syntax:	01	R0103 - At least one of L1101 or L1103 is required.
	02	P0102 - If either L1101 or L1102 is present, then the other is required.

Comment:	01	This segment is not used by Roadway.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	127	Reference Identification Reference information as defined for a particular transaction set or as specified by the Reference Identification Qualifier.	X	AN	01/30
02	128	Reference Identification Qualifier Code qualifying the Reference Identification.	X	ID	02/03
03	352	Description A free-form description to clarify the related data elements and their content.	X	AN	01/80

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MS3 Interline Information

Level: Header
Loop:
Usage: Optional
Max Use: 12
Purpose: To identify the interline carrier and relevant data.

Syntax: 01 C0503 - If MS305 is present, then MS303 is required.

Semantic: 01 MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
02 MS303 is the city where the interline was performed.

Example: MS3*SCAC*O*BOSTON*M*MA

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	140	Standard Carrier Alpha Code SCAC	M	ID	2/4
02	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement.		ID	1/2
		Code Definition			
		1 1st Carrier after Origin Carrier			
		2 2nd Carrier after Origin Carrier			
		3 3rd Carrier after Origin Carrier			
		4 4th Carrier after Origin Carrier			
		O Origin Carrier (Air, Motor, or Ocean)			
03	19	City Name Free-form text for city name.	X/Z	AN	2/30
04	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment.	O	ID	1/2
		Code Definition			
		A Air			
		C Consolidation			
		J Motor			
		M Motor (Common Carrier)			
		R Rail			
		S Ocean			
		U Private Parcel Service			
		X Intermodal (Piggyback)			
		CE Customer Pickup / Customer's Expense			
		FL Motor (Flatbed)			
		LT Less Than Trailer Load (LTL)			
		MB Motor (Bulk Carrier)			
		MP Motor (Package Carrier)			
05	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency.	O	ID	2/2

LX Assigned Number

Level: Header
Loop: 0200
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set.

Comment: This segment is required if loop 0200 is used.

Example: LX*1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	554	Assigned Number Number assigned for differentiation within a transaction set.	M	N0	1/6

AT7 Shipment Status Details

Level: Header
Loop: 0205
Usage: Optional
Max Use: 1
Purpose: To specify the status of a shipment, the reason for that status, the date and time of the status and the date and time of any appointments scheduled.

Syntax: 01 E0103 - Only one of AT701 or AT703 may be present.
02 P0102 - If either AT701 or AT702 is present, then the other is required.
03 P0304 - If either AT703 or AT704 is present, then the other is required.
04 C0605 - If AT706 is present, then AT705 is required.
05 C0706 - If AT707 is present, then AT706 is required.

Semantic: 01 If AT701 is present, AT705 is the date the status occurred. If AT703 is present, AT705 is a date related to an appointment.
02 If AT701 is present, AT706 is the time of the status. If AT703 is present, AT706 is the time of the appointment.
03 If AT707 is not present, then AT706 represents local time of the status.

Example: AT7*AF*NS***19980701*00000000*ET

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Ref. Des.	Data Element	Name	Attributes		
01	1650	Shipment Status Code	X/Z	ID	2/2

Code indicating the status of a shipment.

Code	Definition
A3	Shipment Returned to Shipper
A7	Refused by Consignee
A9	Shipment Damaged
AF	Carrier Departed Pick-up Location with Shipment
AG	Estimated Delivery
AH	Attempted Delivery
AI	Shipment has been Reconsigned
AJ	Tendered for Delivery
AM	Loaded on Truck
AN	Diverted to Air Carrier
AP	Delivery Not Completed
AR	Rail Arrival at Destination Intermodal Ramp
AV	Available for Delivery
B6	Estimated to Arrive at Carrier Terminal
BA	Connecting Line or Cartage Pick-up
BC	Storage in Transit
C1	Estimated to Depart Terminal Location
CA	Shipment Canceled
CD	Carrier Departed Delivery Location
CL	Trailer Closed Out
CP	Completed Loading at Pick-up Location
D1	Completed Unloading at Delivery Location
I1	In-Gate
J1	Delivered to Connecting Line
K1	Arrived at Customs
L1	Loading
OA	Out-Gate
OO	Paperwork Received-Did not Receive Shipment or Equipment
P1	Departed Terminal Location
PR	U.S. Customs Hold at In-Bond Location
R1	Received from Prior Carrier
RL	Rail Departure from Origin Intermodal Ramp
S1	Trailer Spotted at Consignee's Location
SD	Shipment Delayed
X1	Arrived at Delivery Location
X2	Estimated Date and/or Time of Arrival at Consignee's Location
X3	Arrived at Pick-up Location
X4	Arrived at Terminal Location
X5	Arrived at Delivery Location Loading Dock
X6	En Route to Delivery Location
X8	Arrived at Pick-up Location Loading Dock
XB	Shipment Acknowledged

NOTE: Shaded Codes are Roadway codes that can be sent.

| 02 | 1651 | Shipment Status or Appointment Reason Code | X | ID | 2/2 |

Code indicating the reason a shipment status or appointment reason was transmitted.

Code	Definition
A1	Missed Delivery
A2	Incorrect Address
A3	Indirect Delivery
A5	Unable to Locate
A6	Address Corrected - Delivery Attempted
AA	Mis-sort
AD	Customer Requested Future Delivery
AE	Restricted Articles Unacceptable
AF	Accident
AG	Consignee Related
AH	Delivery Related
AI	Mechanical Breakdown
AJ	Other Carrier Related
AK	Damaged, Rewrapped in Hub
AL	Previous Stop
AM	Shipper Related
AN	Holiday - Closed
AO	Weather or Natural Disaster Related
AP	Awaiting Export
AQ	Recipient Unavailable - Delivery Delayed
AR	Improper International Paperwork
AS	Hold Due to Customs Documentation Problems
AT	Unable to Contact Recipient for Broker Information
AU	Civil Event Related Delay
AV	Exceeds Service Limitations
AW	Past Cut-Off Time
AX	Insufficient Pick-up Time
AY	Missed Pick-up
AZ	Alternate Carrier Delivered
B1	Consignee Closed
B2	Trap for Customer
B4	Held for Payment
B5	Held for Consignee
B8	Improper Unloading Facility or Equipment
B9	Receiving Time Restricted
BB	Held per Shipper
BC	Missing Documents
BD	Border Clearance
BE	Road Conditions
BF	Carrier Keying Error
BG	Other
BH	Insufficient Time to Complete Delivery
BI	Cartage Agent
BJ	Customer Wanted Earlier Delivery
BK	Prearranged Appointment
BL	Held for Protective Service
BM	Flatcar Shortage
BN	Failed to Release Billing
BO	Railroad Failed to Meet Schedule
BP	Load Shifted
BQ	Shipment Overweight
BR	Train Derailment
BS	B01 Refused by Customer
BT	Returned to Shipper
C1	Waiting for Customer Pick-up
C2	Credit Hold
C3	Suspended at Customer Request
C4	Customer Vacation
C5	Customer Strike

| 03 | 1652 | Shipment Appointment Status Code | X | ID | 2/2 |

Code indicating the status of an appointment to pick-up or deliver a shipment.

Code	Definition
AA	Pick-up Appointment Date and/or Time
AB	Delivery Appointment Date and/or Time
AC	Estimated Delivery Appointment Date and/or Time
ED	Deliver No Earlier Than Date and/or Time
EP	Pick-up No Earlier Than Date and/or Time
LD	Deliver No Later Than Date and/or Time
LP	Pick-up No Later Than Date and/or Time
X9	Delivery Appointment Secured on This Date and/or Time
XA	Pick-up Appointment Secured on This Date and/or Time

NOTE: Shaded Codes are Roadway codes that can be sent.

| 04 | 1651 | Shipment Status or Appointment Reason Code | X | ID | 2/2 |

Code indicating the reason a shipment status or appointment reason was transmitted.

Code	Definition
A1	Missed Delivery
A2	Incorrect Address
A3	Indirect Delivery
A5	Unable to Locate
A6	Address Corrected - Delivery Attempted
AA	Mis-sort
AD	Customer Requested Future Delivery
AE	Restricted Articles Unacceptable
AF	Accident
AG	Consignee Related
AH	Delivery Related
AI	Mechanical Breakdown
AJ	Other Carrier Related
AK	Damaged, Rewrapped in Hub
AL	Previous Stop
AM	Shipper Related
AN	Holiday - Closed
AO	Weather or Natural Disaster Related
AP	Awaiting Export
AQ	Recipient Unavailable - Delivery Delayed
AR	Improper International Paperwork
AS	Hold Due to Customs Documentation Problems
AT	Unable to Contact Recipient for Broker Information
AU	Civil Event Related Delay
AV	Exceeds Service Limitations
AW	Past Cut-Off Time
AX	Insufficient Pick-up Time
AY	Missed Pick-up
AZ	Alternate Carrier Delivered
B1	Consignee Closed
B2	Trap for Customer
B4	Held for Payment
B5	Held for Consignee
B8	Improper Unloading Facility or Equipment
B9	Receiving Time Restricted
BB	Held per Shipper
BC	Missing Documents
BD	Border Clearance
BE	Road Conditions
BF	Carrier Keying Error
BG	Other
BH	Insufficient Time to Complete Delivery
BI	Cartage Agent
BJ	Customer Wanted Earlier Delivery
BK	Prearranged Appointment
BL	Held for Protective Service
BM	Flatcar Shortage
BN	Failed to Release Billing
BO	Railroad Failed to Meet Schedule
BP	Load Shifted
BQ	Shipment Overweight
BR	Train Derailment
BS	B01 Refused by Customer
BT	Returned to Shipper
C1	Waiting for Customer Pick-up
C2	Credit Hold
C3	Suspended at Customer Request
C4	Customer Vacation
C5	Customer Strike

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05	373	Date	X	DT	8/8

Date expressed as YYYYMMDD.

06	337	Time	X	TM	4/8

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).

07	623	Time Code	O/Z	ID	2/2

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.
See External Code Source 94 in Chapter IX of the ATA Guide for Reference Document.
ET - Eastern time
CT - Central time
MT - Mountain time
PT - Pacific time

MS1 Equipment, Shipment, or Real Property Location

Level: Header
Loop: 0205
Usage: Optional
Max Use: 1
Purpose: To specify the location of a piece of equipment, a shipment, or real property in terms of city and state or longitude and latitude.

Syntax: 01 L010203 - If MS101 is present, then at least one of MS102 or MS103 is required.
02 E0104 - only one of MS101 or MS104 may be present.
03 C0201 - If MS102 is present, then MS101 is required.
04 C0301 - If MS103 is present, then MS101 is required.
05 P0405 - If either MS104 or MS105 is present, then the other is required.
06 C0604 - If MS106 is present, then MS104 is required.
07 C0705 - If MS107 is present, then MS105 is required.

Semantic: 01 MS104 is the longitude expressed in Degrees, Minutes, and Seconds.
02 MS105 is the latitude expressed in Degrees, Minutes, and Seconds.
03 MS106 may only be "E" or "W".
04 MS107 may only be "N" or "S".

Example: MS1*TALLADEGA*AL

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	19	City Name Free-form text for city name.	X	AN	2/30
02	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency.	X	ID	2/2
03	26	Country Code Code identifying the country.	X	ID	2/3
04	1654	Longitude Code Code indicating the longitude in degrees (3 positions), minutes (2 positions), and seconds (2 positions). This element is not used by Roadway.	X/Z	ID	7/7
05	1655	Latitude Code Code indicating the latitude in degrees (3 positions), minutes (2 positions), and seconds (2 positions). This element is not used by Roadway.	X/Z	ID	7/7
06	1280	Direction Identifier Code Code identifying geographic direction. This element is not used by Roadway.	O/Z	ID	1/1
07	1280	Direction Identifier Code Code identifying geographic direction. This element is not used by Roadway.	O/Z	ID	1/1

MS2 Equipment or Container Owner and Type

Level: Header
Loop: 0205
Usage: Optional
Max Use: 1
Purpose: To Specify the owner, the identification number assigned by that owner, and the type of equipment.

Syntax: 01   P0102 - If either MS201 or MS202 is present, then the other is required.
02   C0402 - If MS204 is present, then MS202 is required.

Comment: 01   MS203 identifies the type for the equipment specified in the MS202.

Example: MS2*RDWY*724691

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	140	Standard Carrier Alpha Code SCAC	X	ID	2/4
02	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred). Roadway's trailer number	X	AN	1/10
03	40	Equipment Description Code Code identifying type of equipment used for shipment. TL - Trailer (if not otherwise specified)	O	ID	2/2
04	761	Equipment Number Check Digit Number which designates the check digit applied to a piece of equipment. This element is not used by Roadway.	O	N0	1/1

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L11 Business Instructions and Reference Number

Level: Header
Loop: 0200
Usage: Optional
Max Use: 10
Purpose: To specify instructions in this business relationship or a reference number.

Syntax: 01 R0103 - At least one of L1101 or L1103 is required.
02 P0102 - If either L1101 or L1102 is present, then the other is required.

Comment: 01 This segment is not used by Roadway.

Example: L11*1027094163*IX

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	127	Reference Identification Reference information as defined for a particular transaction set or as specified by the Reference Identification Qualifier.	X	AN	1/30
02	128	Reference Identification Qualifier Code qualifying the Reference Identification.	X	ID	2/3

Code Definition
CN Carrier's Reference Number (PRO/Invoice)
CO Customer Order Number
IX Item Number
QN Stop Sequence Number
TT Terminal Code

Ref. Des.	Data Element	Name	Attributes		
03	352	Description A free-form description to clarify the related data elements and their content.	X	AN	1/80

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MAN Marks and Numbers

Level: Header
Loop: 0200
Usage: Optional
Max Use: 9999
Purpose: To indicate identifying marks and numbers for shipping containers.

Syntax: 01 P0405 - If either MAN04 or MAN05 is present, then the other is required.
02 C0605 - If MAN06 is present, then MAN05 is required.

Semantic: 01 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
02 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
03 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments: 01 When MAN01 contains code "UC" (U.P.C. Shipping Container code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
02 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
03 When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
04 This segment is not used by Roadway.

Example: MAN*GM*123458923442**GM*00100280283000550039

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87). Code Definition CP Carrier-Assigned Package ID Number GM SSCC-18 and Application Identifier	M/Z	ID	1/2
02	87	Marks and Numbers Marks and Numbers used to identify a shipment or parts of a shipment.	M/Z	AN	1/48
03	87	Marks and Numbers Marks and Numbers used to identify a shipment or parts of a shipment.	O	AN	1/48
04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87). Code Definition CP Carrier-Assigned Package ID Number GM SSCC-18 and Application Identifier	X	ID	1/2

| 05 | 87 | Marks and Numbers
Marks and Numbers used to identify a shipment or parts of a shipment. | X/Z | AN | 1/48 |
| 06 | 87 | Marks and Numbers
Marks and Numbers used to identify a shipment or parts of a shipment. | O | AN | 1/48 |

Q7 Lading Exception Code

Level: Header
Loop: 0200
Usage: Optional
Max Use: 10
Purpose: To specify the status of the shipment in terms of lading exception information.

Syntax: 01 C0203 - If Q702 is present, then Q703 is required.

Comment: 01 This segment is not used by Roadway.

Example: Q7*P*PCS*5

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	33	Lading Exception Code Code indicating the condition of the shipment.	M	ID	1/1

Code	Definition
A	All Short
D	Damaged
E	Entire Shipment Refused
O	Overage
P	Partial Shipment
W	Wrong Product

| 02 | 211 | Packaging Form Code | O | ID | 3/3 |

Code for packaging form of the lading quantity.

Code	Definition
BAG	Bag
BBL	Barrel
BDL	Bundle
BIN	Bin
BOX	Box
CAG	Cage
CAN	Can
CAS	Case
CNT	Container
CRT	Crate
CTN	Carton
CYL	Cylinder
DBK	Dry Bulk
ENV	Envelope
GOH	Garments on Hangers
JAR	Jar
KEG	Keg
LBK	Liquid Bulk
PCS	Pieces
PKG	Package
PLT	Pallet
RCK	Rack
SKD	Skid
SLP	Slip Sheet
TBE	Tube
TRY	Tray
UNT	Unit
VEH	Vehicles
WRP	Wrapped

| 03 | 80 | Lading Quantity | X | N0 | 1/7 |

Number of units (pieces) of the lading commodity.

K1 Remarks

Level: Header
Loop: 0200
Usage: Optional
Max Use: 10
Purpose: To transmit information in a free-form format for comment or special instruction.

Comment: 01 This segment is not used by Roadway.

Example: K1*FREE FORM MESSAGE

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	61	Free-Form Message Free-form information.	M	AN	1/30
02	61	Free-Form Message Free-form information.	O	AN	1/30

AT5 Bill of Lading Handling Requirements

Level:	Header
Loop:	0200
Usage:	Optional
Max Use:	10
Purpose:	To identify Bill of Lading handling and service requirements.

Syntax:	01	E0103 - Only one of AT501 or AT503 may be present.
	02	E0203 - Only one of AT502 or AT503 may be present.

Comment:	01	This segment is not used by Roadway.

Example:	AT5*EXC*CU

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	152	Special handling Code Code specifying special transportation handling instructions.	X	ID	2/3

Code   Definition
EP   Expedite
FR   Fragile - Handle with Care
LF   Leaded to Full Visible Capacity
NC   Notify Consignee Before Delivery
675   Security Signature Service
AMM A.M. Delivery Requirement
BLS   Blind Shipment
DNF Do Not Freeze
EXC Exclusive Use of Vehicle
EXQ Expedited Service
KMD Keep Material Dry
PFH Protect From Heat
PMM P.M. Delivery Requirement
RCC Reconsignment
RCL Redelivery

Ref. Des.	Data Element	Name	Attributes		
02	560	Special Services Code Code identifying the special service.	X	ID	2/10

Code   Definition
C1   Shipper Load and Count
CU   Consignee Unload
ID   Inside Delivery
L1   Shipper Load, Carrier Count
S1   Shipper Load, Consignee Unload
V1   Drop Yard
V2   Drop Dock

Ref. Des.	Data Element	Name	Attributes		
03	153	Special Handling Description Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate.	X	AN	2/30

AT8 Shipment Weight, Packaging and Quantity Data

           Level: Header
            Loop: 0200
          Usage: Optional
      Max Use: 10
        Purpose: To specify shipment details in terms of weight, and quantity of handling units.

        Syntax: 01   P010203 - If either AT801, AT802 or AT803 are present, then the others are required.
                  02   P0607 - If either AT806 or AT807 is present, then the other is required.

     Semantic: 01   AT804 is the quantity of handling units that are not unitized (for example a carton).
                        When added to the quantity in AT805, it is the total quantity of handling units in the
                        shipment.
                  02   AT805 is the quantity of handling units that are unitized (for example on a pallet or slip
                        sheet). When added to the quantity in AT804 it is the total quantity of handling units
                        for the shipment.

        Example: AT8*G*L*5000*7

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	152	Weight Qualifier Code Code defining the type of weight. Code Definition G Gross Weight N Actual Net Weight A3 Shippers Weight PA Pallet Weight	X	ID	1/2
02	188	Weight Unit Code Code specifying the weight unit. Code Definition K Kilograms L Pounds	X	ID	1/1
03	81	Weight Numeric value of weight.	X	R	1/10
04	80	Lading Quantity Number of units (pieces) of the lading commodity. Not Unitized.	O/Z	N0	1/7
05	80	Lading Quantity Number of units (pieces) of the lading commodity. Unitized	O/Z	N0	1/7
06	184	Volume Unit Qualifier Code identifying the volume unit. Code Definition E Cubic Feet G Gallons V Liter This element is not used by Roadway.	X	ID	1/1
07	183	Volume Value of Volumetric measure. This element is not used by Roadway.	X	R	1/8

SPO Shipment Purchase Order Detail

Level:	Header	
Loop:	0250	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the purchase order details for a shipment.	

Syntax:	01	P0304 - If either SPO03 or SPO04 is present, then the other is required.
	02	P0506 - If either SPO05 or SPO06 is present, then the other is required.

Semantic:	01	SPO02 is the department number.
	02	SPO04 is the total quantity for the purchase order.
	03	SPO06 is the total weight for the purchase order.
	04	SPO07 indicates the data error condition relative to the shipment management information.
	05	SPO08 is used to specify sorting and/or segregating reference numbers for each receiving location (processing area).

Example: SPO*12345*12*PC*134

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser.	M	AN	1/22
02	127	Reference Identification Reference information as defined in the semantics above.	O/Z	AN	1/30

03	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.
		Code Definition
		  CT Carton
		  PC Piece
		  RA Rack
			X	ID	2/2

04	380	Quantity Numeric value of quantity.	X/Z	R	1/15

05	188	Weight Unit Code
		Code specifying the weight unit.
		Code Definition
		  K Kilograms
		  L Pounds
			X	ID	1/1

06	81	Weight Numeric value of weight.	X/Z	R	1/10

07	647	Application Error Condition Code
		Code indicating application error condition.
		Code Definition
		  IDN Invalid Department Number
		  IID Invalid Identification Code
		  IQT Invalid Quantity
		  IWT Invalid Weight
		  MDN Missing Department Number
		  MID Missing Identification Code
		  MQT Missing Quantity
		  MWT Missing Weight
			O/Z	ID	1/3

| 08 | 127 | Reference Identification | O/Z | AN | 1/30 |

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.

SDQ Destination Quantity

Level: Header

```
Loop:      0250
Usage:     Optional
Max Use:   10
Purpose:   To specify destination and quantity detail.

Syntax:    01    P0506 - If either SDQ05 or SDQ06 is present, then the other is required.
           02    P0708 - If either SDQ07 or SDQ08 is present, then the other is required.
           03    P0910 - If either SDQ09 or SDQ10 is present, then the other is required.
           04    P1112 - If either SDQ11 or SDQ12 is present, then the other is required.
           05    P1314 - If either SDQ13 or SDQ14 is present, then the other is required.
           06    P1516 - If either SDQ15 or SDQ16 is present, then the other is required.
           07    P1718 - If either SDQ17 or SDQ18 is present, then the other is required.
           08    P1920 - If either SDQ19 or SDQ20 is present, then the other is required.
           09    P2122 - If either SDQ21 or SDQ22 is present, then the other is required.

Semantic:  01    SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07,
                 SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

Comments:  01    SDQ02 is used only if different than previously defined in the transaction set.
           02    SDQ03 is the store number.
           03    SDQ23 may be used to identify areas within a store, e.g., front room, back room,
                 selling outpost, end aisle display, etc.  The value is agreed to by trading partners or
                 industry conventions.
           04    This segment is not used by Roadway.

Example:   SDQ*CT*92*142*100
```

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	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. Code Definition CA Case CT Carton EA Each	M	ID	2/2
02	66	Identification Code Qualifier Code designating the system/method of code structure used for identification code (67). Code Definition 92 Assigned by Buyer or Buyer's Agent	O	ID	1/2
03	67	Identification Code Code identifying a party or other code.	M	AN	2/80
04	380	Quantity Numeric value of quantity.	M	R	1/15
05	67	Identification Code Code identifying a party or other code.	X	AN	2/80
06	380	Quantity Numeric value of quantity.	X	R	1/15
07	67	Identification Code Code identifying a party or other code.	X	AN	2/80
08	380	Quantity Numeric value of quantity.	X	R	1/15
09	67	Identification Code Code identifying a party or other code.	X	AN	2/80

10	380	Quantity	X	R	1/15
		Numeric value of quantity.			
11	67	Identification Code	X	AN	2/80
		Code identifying a party or other code.			
12	380	Quantity	X	R	1/15
		Numeric value of quantity.			
13	67	Identification Code	X	AN	2/80
		Code identifying a party or other code.			
14	380	Quantity	X	R	1/15
		Numeric value of quantity.			
15	67	Identification Code	X	AN	2/80
		Code identifying a party or other code.			
16	380	Quantity	X	R	1/15
		Numeric value of quantity.			
17	67	Identification Code	X	AN	2/80
		Code identifying a party or other code.			
18	380	Quantity	X	R	1/15
		Numeric value of quantity.			
19	67	Identification Code	X	AN	2/80
		Code identifying a party or other code.			
20	380	Quantity	X	R	1/15
		Numeric value of quantity.			
21	67	Identification Code	X	AN	2/80
		Code identifying a party or other code.			
22	380	Quantity	X	R	1/15
		Numeric value of quantity.			
23	310	Location Identifier	O/Z	AN	1/30
		Code which identifies a specific location.			

SE Transaction Set Trailer

Level: Header
Loop:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comment: 01 SE is the last segment of each transaction set.

Example: SE*45*000010001

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
01	96	Number of Included Sets Total number of segments included in a transaction set including ST and SE segments.	M	N0	01/10
02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	M	AN	04/09