ANSI ASC X12
Shipment Pickup Notification (216)
Version 004010

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Dear Roadway Customer:

Thank you for your interest in trading electronic shipment pickup notifications with Roadway. This is the 216 Shipment Pickup Notification implementation guide you requested. We look forward to working with you to implement the EDI transaction set 216. If you have any questions about the 216 or any other EDI issues please feel free to contact the person 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 create and transmit Shipment Pickup Notifications, via EDI, to Roadway. The material presented here covers the 216 transaction set of Version 004 Release 010 of the ANSI ASC X12 standard. Roadway Express has the ability to accept transaction sets from earlier versions as well as other standards. Contact Roadway for information on the other standards and versions supported.

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.

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.

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.

216 Shipment Pickup Notification Data Requirements

- Each EDI Document will represent one pickup request
- The pickup request must be deployed in a business environment that allows for all freight to be picked up (no rejected pickups)
- Ship From Location (Address, City, State, Zip)
- Total Handling Units
- Total Weight
- Requested Pickup Date
- Pickup Contact Information (Name, Phone Number)
- Time that Dock Closes
- Ship To Location

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.

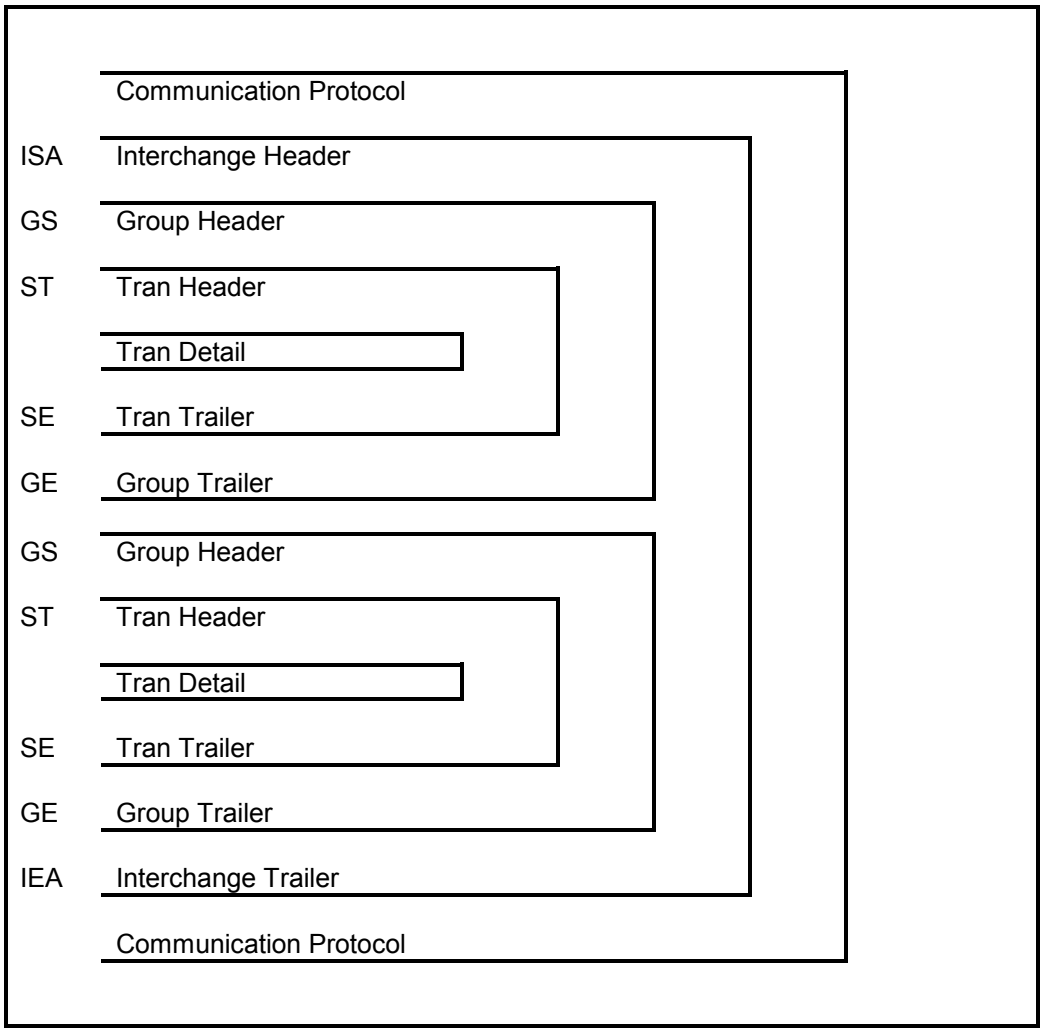

Figure 1: Transmission Structure

Tansaction 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.

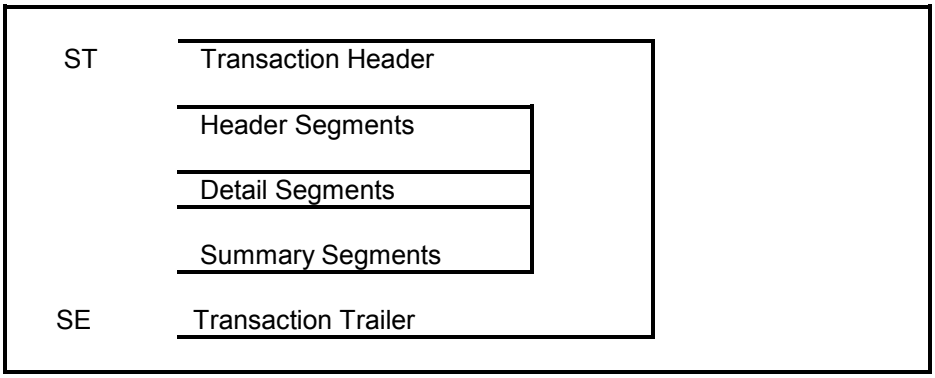

Figure 2: Transaction Structure

Notation Conventions

Segment Requirements

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

• (O) OPTIONAL: The segment may be transmitted, if so desired.

Element Requirements

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

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

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

• (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) EXCLUSION: Not more than one of the data elements specified could 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 CCYYMMDD.
• 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.

Segment Definitions

ISA Interchange Control Header

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
ISA01	I01	Authorization Info Qualifier	ID	02/02	M	"00" - No auth info
ISA02	I02	Authorization Information	AN	10/10	M	Spaces
ISA03	I03	Security Information Qualifier	ID	02/02	M	"00" - No security
ISA04	I04	Security Information	AN	10/10	M	Spaces
ISA05	I05	Interchange ID Qualifier	ID	02/02	M	01 - Duns number 12 - Telephone number
ISA06	I06	Interchange Sender ID	AN	15/15	M	Sender's unique ID
ISA07	I05	Interchange ID Qualifier	ID	02/02	M	01 - Duns number
ISA08	I07	Interchange Receiver ID	AN	15/15	M	“075699389T” Test “075699389A” Production
ISA09	I08	Interchange Date	DT	06/06	M	Creation date (YYMMDD)
ISA10	I09	Interchange Time	TM	04/04	M	Creation time (HHMM)
ISA11	I10	Interchange Control ID	ID	01/01	M	"U" - USA
ISA12	I11	Interchange Version ID	ID	05/05	M	"00400"
ISA13	I12	Interchange Control Number	N0	09/09	M	Must match IEA02
ISA14	I13	Acknowledgment Requested	ID	01/01	M	"0" or "1"
ISA15	I14	Test Indicator	ID	01/01	M	P - Production T - Test
ISA16	I15	Subelement Separator	AN	01/01	M	Must be different than element separator

IEA Interchange Control Trailer

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
IEA01	I16	Number of Included Functional Groups	N0	01/05	M	Number of GS segments between ISA and IEA
IEA02	I12	Interchange Control Number	N0	09/09	M	Must match ISA13

GS Functional Group Header

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
GS01	479	Function Group ID	ID	02/02	M	
GS02	142	Application Sender ID	AN	02/15	M	Usually DUN's number
GS03	124	Application Receiver ID	AN	02/15	M	"075699389"
GS04	29	Interchange Date	DT	08/08	M	Date group generated
GS05	30	Interchange Time	TM	04/08	M	Time group generated
GS06	28	Group Control Number	N0	01/09	M	
GS07	455	Responsible Agency Code	ID	01/02	M	Always "X"
GS08	480	Standards Version	AN	01/12	M	

GE Control Trailer

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
GE01	97	Number of Included sets	N0	01/06	M	
GE02	28	Group Control Number	N0	01/09	M	Must match GS06

ST Starting Segment

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
ST01	143	Transaction Set ID	ID	03/03	M	
ST02	329	Transaction Set Control Number	AN	04/09	M	Unique transaction number

SE Transaction Set Trailer

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
SE01	96	Number of Included Segments	N0	01/10	M	
SE02	329	Transaction Set Control Number.	AN	04/09	M	Must match ST02

Transaction Set 216

Seg ID	Description	Req.	Max Use	Loop ID	Max Loops
ST	Transaction Set Header	M	1		
PUN	Beginning Segment for Motor Carrier Pickup Notification	M	1		
G61	Contact	O	1		
TEM	Pickup Totals	O	1		
N1	Name	**M**	1	**0100**	**2**
N2	Additional Name Information	O	**1**		
N3	Address Information	**O**	2		
N4	Geographic Location	O	1		
SE	**Transaction Set Trailer**	**M**	**1**		

Example 216 Motor Carrier Shipment Pickup Notification

EDI TRANSMISSION DATA	EXPLANATION
ST*216*000000001	**216** is the transaction set identifier code for the Shipment Pick-up Notification. **000000001** is the transaction set control number.
PUN*RDWY*20010601*1730*1234567890	**RDWY** is the carrier SCAC code, the shipment will be available **June 1, 2001** after **5:30PM.** **1234567890** is the reference identification required by Roadway to pick up the shipment.
G61*SH*NAME*TE*PHONE NUMBER	**SH** is the identification code for the shipper contact. **NAME** is the name of the contact. **TE** is the communication number qualifier. **PHONE NUMBER** is the telephone number of the shipping department contact.
TEM*15*2*L*600	The shipment is made up of **2** unitized handling units and **15** that are not unitized. **L** is the weight code for pounds. **600** is the actual weight of the shipment.
LOOP 0100	
N1*SH*NAME	**SH** is the shipper identification code. **NAME** is the name of the shipper.
N2*ADDITIONAL NAME	**ADDITIONAL NAME** further defines the name in the N1.
N3*ADDRESS 1*ADDRESS 2	**ADDRESS 1** is the address of the shipper. **ADDRESS 2** is the address for the location in the N2.
N4*CITY*STATE*ZIP*COUNTRY	**CITY, STATE, ZIP,** and **COUNTRY** is the location of the shipper.
N1*CN*CONSIGNEE NAME	**CN** is the consignee identification code. **CONSIGNEE NAME** is the name of the company the shipment is being shipped to.
N2*ADDITIONAL NAME	**ADDITIONAL NAME** further defines the name in the N1.
N3*ADDRESS 1*ADDRESS 2	**ADDRESS 1** is the address of the consignee. **ADDRESS 2** is the address for the location in the N2.
N4*CITY*STATE*ZIP*COUNTRY	**CITY, STATE, ZIP,** and **COUNTRY** is the location of the consignee.
SE*13*000000001	**13** is the total number of segments included in this transaction set including the ST and the SE segments. **000000001** is the transaction set control number.

PUN Beginning Segment for Motor Carrier Pickup Notification

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
PUN01	140	Standard Carrier Alpha Code	ID	2/4	M/Z	
PUN02	373	Date	DT	8/8	M/Z	
PUN03	337	Time	TM	4/8	O/Z	
PUN04	127	Reference identification	AN	1/30	O/Z	

Notes

- PUN01 is the Standard Carrier Alpha Code (SCAC) of the carrier that is the intended recipient of this transaction set.
- PUN02 is the date the freight will be available for pick-up by the motor carrier identified in PUN01.
- PUN03 is the time that the freight will be available on the date specified in PUN02.
- PUN04 is the pickup authorization or reference number. If provided, it is the reference number that the carrier is required to provide in order to pickup the shipment.

G61 Contact

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
G6101	366	Contact Function Code	ID	02/02	M	
G6102	93	Name	AN	01/35	M	
G6103	365	Communication Number Qualifier	ID	02/02	X	
G6104	364	Communication Number	AN	01/80	X	
G6105	443	Contact Inquiry Reference	AN	01/20	O	

Notes

- If either G6103 or G6104 is present, then the other is required.
- G6103 qualifies G6104.

TEM Pickup Totals

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
TEM01	380	Quantity	R	1/15	X/Z	
TEM02	380	Quantity	R	1/15	X/Z	
TEM03	188	Weight Unit Code	ID	1/1	X/Z	
TEM04	81	Weight	R	1/10	X	

Notes

- At least one of TEM01 or TEM02 is required.
- If either TEM03 or TEM04 is present, then the other is required
- TEM01 is the quantity of handling units that are not unitized (for example a carton). When added to the quantity in TEM02, it is the total quantity of handling units in the shipment.
- TEM02 is the quantity of handling units that are unitized (for example on a pallet or slip sheet). When added to the quantity in TEM01 it is the total quantity of handling units for the shipment.
- TEM04 is the weight of the shipment

N1 Name

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
N101	98	Entity Identifier Code	ID	02/02	M	
N102	93	Name	AN	01/35	X	
N103	66	Identification Code Qualifier	ID	01/02	X	
N104	67	Identification Code	AN	02/20	X	
N105	706	Entity Relationship Code	ID	02/02	O	
N106	98	Entity Identifier Code	ID	02/02	O	

Notes:

- At least one of N102 or N103 is required.
- If N103 or N104 is present, then the other is required.
- 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 party processing the transaction.
- N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
N201	93	Name	AN	01/35	M	
N202	93	Name	AN	01/35	O	

N3 Address Information

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
N301	166	Address Information	AN	01/35	M	
N302	166	Address Information	AN	01/35	O	

N4 Geographic Location

ELE	REF	DESCRIPTION	TY	LNTH	REQ	COMMENT
N401	19	City Name	AN	02/30	O	
N402	156	State/Province Code	ID	02/02	O	
N403	116	Postal Code	ID	05/11	O	
N404	26	Country Code	ID	02/03	O	
N405	309	Location Qualifier	ID	01/02	X	
N406	310	Location Identifier	AN	01/30	O	

Notes:

- N401 through N403 are required.
- If N404 is blank, 'USA' is assumed.
- If N405 or N406 is present, then the other is required.