



Department  
of  
Defense

# DoD Transportation Electronic Business (DTEB) Convention

ASC X12 Transaction Set 220  
Logistics Service Response  
(Version 004010) – Transportation  
Service Response

VERSION 0

December 2007



Department  
of  
Defense

DoD  
Transportation  
Electronic Business  
(DTEB) Convention

ASC X12 Transaction Set 220  
Logistics Service Response  
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Service Response

VERSION 0

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# Section 1.0

## INTRODUCTION

This implementation convention (IC) describes the standard or convention that Department of Defense shippers will use to generate a response to a transportation service request in support of Defense Transportation contracts, such as the International Heavyweight Express (IHX) program. For further information about the DTEB program, to obtain DoD conventions or ASC X12 guidance or to recommend DoD conventions or ASC X12 maintenance, contact the following:

United States Transportation Command  
TCJ6-AD  
508 Scott Drive  
Scott Air Force Base, IL 62225-7001

For the most recent publication, go to the World-Wide Web at

[https://cris.transcom.mil/cris/dteb/ic/trans\\_ics.cfm](https://cris.transcom.mil/cris/dteb/ic/trans_ics.cfm)

[Note: To access the publication, you must have an Information Tool Suite (ITS) account.]

## Who Needs to Use This Document

Computer programmers use this document to identify the data requirements for populating an EDI transaction.

## Why Use a Convention

A convention defines the rules for populating an EDI transaction. Following a convention ensures that trading partners will encounter fewer data quality problems during development and maintenance of EDI systems.

## Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Standard Implementation Convention, lists the layout of the target transaction set by segment and data element. It is presented in the standard publishing format prescribed by the Defense Information Systems Agency (DISA).
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.

## Section 2.0

# CONTROL SEGMENTS

## Overview

This section describes the EDI control segments (interchange control and functional group segments). The control segment information was derived from the ASC X12 Standards Version 4 Release 1 (004010).

## Purpose

This section identifies the specific data requirements for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments are usually managed by EDI translation software. The data requirements described herein should be used to set control segment formats when installing or initializing translation software for transmission and reception of EDI transactions.

## Contents

The complete 004010 version/release control segments includes an Interchange Control Segment Hierarchy on page 2.3, which identifies the control segments in their order of occurrence in an EDI communications interchange.

Beginning on page 2.5 are Department of Defense (DoD) Convention ASC X12 Control Segments, which present a detailed description of DoD data conventions for formatting Interchange Control and Functional Group segments for use among Defense Transportation Electronic Business (DTEB) trading partners.

## Special Instructions

Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these values do not conflict with telecommunications protocols necessary to the transmission of the interchange. The following recommended values conform to information published in Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications.

## DATA ELEMENT SEPARATOR

While the data element separator is graphically displayed as an asterisk (\*) or a tilde (~) in *ASC X12* documentation, it is the value employed in the fourth byte of an interchange envelope that actually assigns the separator that the translators will use throughout an interchange. Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange.

*ASC X12* recommends the ASCII character with hexadecimal value "1D" for use as the data element separator (gs). These values conform to information published in *Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications*.

## SEGMENT TERMINATOR

Likewise, the control envelope establishes the byte value used for segment termination within an interchange. *ASC X12* documentation usually portrays this as a new line (n/l character, but the actual segment terminator for an interchange will be the byte value occurring immediately following the ISA16 segment. *ASC X12* recommends the ASCII character with hexadecimal value "1C" for use as the segment (fs) terminator.

## COMPONENT ELEMENT SEPARATOR

The ISA segment provides a discrete element (ISA16) for defining the component element separator within an interchange. The component element separator is a delimiter used to separate component data elements within a composite data structure. It must be different than the data element separator and the segment terminator. *ASC X12* recommends the ASCII character with hexadecimal value "1F" for use as the component element separation (us) character.

## GS01 CODE VALUE

Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).

## X12 PUBLICATION

See *ASC X12 Electronic Data Interchange X12 Draft Version 4 Release 1 Standards, Document Number: ASC X12S/97-372*, for complete 004010 version/release control segment specifications.

## Interchange Control Envelope Control Segments

Usage	Seg ID	Name	Req	Des	Max Use
Must Use	ISA	Interchange Control Header	M		1
Must Use	GS	Functional Group Header	M		1
Must Use	• ST - SE	Grouped Transactions			
Must Use	• ST - SE	Grouped Transactions			
Must Use	• ST - SE	Grouped Transactions			
Must Use	GE	Functional Group Trailer	M		1
Must Use	GS	Functional Group Header	M		1
Must Use	• ST - SE	Grouped Transactions			
Must Use	• ST - SE	Grouped Transactions			
Must Use	• ST - SE	Grouped Transactions			
Must Use	GE	Functional Group Trailer	M		1
Must Use	IEA	Interchange Control Trailer	M		1

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M	ISA05	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified  Select appropriate code value for sender from 4010 X12 code list for data element I05. For Department of Defense Agency Address Code (DoDAAC) use code value '10'.	M ID 2/2
M	ISA06	I06	<b>Interchange Sender ID</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element.  DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with network value added network (VAN) Administrator.	M AN 15/15
M	ISA07	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified  Select appropriate code value for receiver from 4010 X12 code list for data element I05. For DoDAAC use code value '10'.	M ID 2/2
M	ISA08	I07	<b>Interchange Receiver ID</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.  DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with VAN Administrator.	M AN 15/15

<b>M</b>	<b>ISA09</b>	<b>I08</b>	<b>Interchange Date</b> Date of the interchange	<b>M DT 6/6</b>						
<p>Date in YYMMDD format assigned by translation software</p>										
<b>M</b>	<b>ISA10</b>	<b>I09</b>	<b>Interchange Time</b> Time of the interchange	<b>M DT 4/4</b>						
<p>Time in HHMM format assigned by translation software</p>										
<b>M</b>	<b>ISA11</b>	<b>I10</b>	<b>Interchange Control Standards</b> Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	<b>M ID 1/1</b>						
<table border="0"><thead><tr><th><u>Code</u></th><th><u>Definition</u></th></tr></thead><tbody><tr><td>U</td><td>U.S. EDI Community of ASC X12, TDCC, and UCS</td></tr></tbody></table>					<u>Code</u>	<u>Definition</u>	U	U.S. EDI Community of ASC X12, TDCC, and UCS		
<u>Code</u>	<u>Definition</u>									
U	U.S. EDI Community of ASC X12, TDCC, and UCS									
<b>M</b>	<b>ISA12</b>	<b>I11</b>	<b>Interchange Control Version Number</b> This version number covers the interchange Control segments.	<b>M ID 5/5</b>						
<table border="0"><thead><tr><th><u>Code</u></th><th><u>Definition</u></th></tr></thead><tbody><tr><td>00401</td><td>Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997</td></tr></tbody></table>					<u>Code</u>	<u>Definition</u>	00401	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997		
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00401	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997									
<p>Version/release of control segment, as agreed upon by the trading partners</p>										
<b>M</b>	<b>ISA13</b>	<b>I12</b>	<b>Interchange Control Number</b> A control number assigned by the interchange sender	<b>M N0 9/9</b>						
<p>Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.</p>										
<b>M</b>	<b>ISA14</b>	<b>I13</b>	<b>Acknowledgment Requested</b> Code sent by the sender to request an interchange acknowledgment (TA1)	<b>M ID 1/1</b>						
<table border="0"><thead><tr><th><u>Code</u></th><th><u>Definition</u></th></tr></thead><tbody><tr><td>0</td><td>No Acknowledgment Requested</td></tr><tr><td>1</td><td>Interchange Acknowledgment Requested</td></tr></tbody></table>					<u>Code</u>	<u>Definition</u>	0	No Acknowledgment Requested	1	Interchange Acknowledgment Requested
<u>Code</u>	<u>Definition</u>									
0	No Acknowledgment Requested									
1	Interchange Acknowledgment Requested									
<p>Send code agreed upon by trading partners.</p>										

M ISA15 I14

**Usage Indicator**

M ID 1/1

Code to indicate whether data enclosed by this interchange envelope is test, production, or information

<u>Code</u>	<u>Definition</u>
I	Information
P	Production Data
T	Test Data

Use code value as agreed upon by trading partners.

M ISA16 I15

**Component Element Separator**

AN 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.

ASC X12 recommends the use of ASCII character whose hexagonal value is '1F' as the component element separation character

Segment: **GS Functional Group Header**

Usage: **Mandatory**

Max Use: **1**

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

**DATA ELEMENT SUMMARY**

Ref Des	Data Element	Name	Attributes
M GS01	479	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets	M ID 2/2
<p>Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).</p>			
M GS02	142	<b>Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners	M AN 2/15
<p>Typically, a sender will use different codes here to uniquely identify each implementation convention (IC) for a particular transaction set. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA06.</p>			
M GS03	124	<b>Application Receiver's Code</b> Code to identify the type of information in the Security Information	M AN 2/15
<p>DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA08</p>			

<b>M</b>	<b>GS04</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD. Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)  Date assigned by translation software	<b>M DT 8/8</b>				
<b>M</b>	<b>GS05</b>	<b>337</b>	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM or HHMMSS, or HHMMSSD, or HHMMSSDD, where H – hours (00-23), M = minutes (00-59), S = integer seconds (00-59), and D = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)  Time expressed in HHMM format assigned by translation software	<b>M TM 4/8</b>				
<b>M</b>	<b>GS06</b>	<b>28</b>	<b>Group Control Number</b> Assigned number originated and maintained by the sender  Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.	<b>M N0 1/9</b>				
<b>M</b>	<b>GS07</b>	<b>455</b>	<b>Responsible Agency Code</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard.  <table border="0"> <tr> <td style="border-bottom: 1px solid black;"><b>Code</b></td> <td style="border-bottom: 1px solid black;"><b>Definition</b></td> </tr> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </table>	<b>Code</b>	<b>Definition</b>	X	Accredited Standards Committee X12	<b>M ID 1/1</b>
<b>Code</b>	<b>Definition</b>							
X	Accredited Standards Committee X12							
<b>M</b>	<b>GS08</b>	<b>480</b>	<b>Version / Release / Industry Identified Code</b> Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by the user), if code in DE455 in GS segment is T, then other formats are allowed.  <table border="0"> <tr> <td style="border-bottom: 1px solid black;"><b>Code</b></td> <td style="border-bottom: 1px solid black;"><b>Definition</b></td> </tr> <tr> <td>004010</td> <td>Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </table> This is the version/release for all transactions within a functional group. See X12 4010 Dictionary for source code list. Note: optional positions 7- 12 are not used by the DTEB community.	<b>Code</b>	<b>Definition</b>	004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997	<b>M AN 6/6</b>
<b>Code</b>	<b>Definition</b>							
004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997							

Segment: GE Functional Group Trailer  
 Usage: Mandatory  
 Max Use: 1  
 Purpose: To indicate the end of a functional group and to provide control information

DATA ELEMENT SUMMARY

Ref Des	Data Element	Name	Attributes
M GE01	97	<b>Number of Transaction Sets Included</b> Total number of segments included in a transaction set including ST and SE segments  Number assigned by translation software	M N0 1/6
M GE02	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender  Number assigned by the translation software. This control number matches the control number that occurs in GS06.	M N0 1/9

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Segment: IEA Interchange Control Trailer  
Usage: Mandatory  
Max Use: 1  
Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments

DATA ELEMENT SUMMARY

Ref Des	Data Element	Name	Attributes
M IEA01	I16	<b>Number of Included Functional Groups</b> A count of the number of functional groups included in an interchange  Number calculated by translation software	M N0 1/6
M IEA02	I12	<b>Interchange Control Number</b> A control number assigned by the interchange sender  Number assigned by translation software. This number must match that occurring in ISA13.	M N0 9/9

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## Section 3.0

# STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for interpreting Transportation Service Response using the ASC X12.Transaction Set 220 Logistics Service Response (Version 004010). .

Symbols that appear in the Data Element Summary to the left of each segment reference designator (Ref. Des.) define implementation convention usage for the DoD. These designations may differ from ASC X12 convention attributes appearing in the right-hand column of the Data Element Summary and should be interpreted as follows:

- [*blank*] - Segment or data element may be used optionally
- M - X12 standards designate mandatory use of segment or data element
- >> - Segment or data element is mandatory for DTEB use
- X - Segment or data element is not used.

NOTE: Whenever a segment occurs more than once, DoD's actual usage requirement may differ among the instances of segment usage. In all cases, the Data Element Summary will indicate the highest order DoD requirement. In other words, if one or several particular instances for a segment are OPTIONAL but another is MANDATORY, the Data Element Summary will indicate a MANDATORY requirement. A review of the IC layout in Section 4.0 will distinguish among the multiple instances and clarify the usage requirement for each instance.

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# 220 Logistics Service Response

Functional Group ID=**AH**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Logistics Service Response Transaction Set (220) for use within the context of an Electronic Data Interchange (EDI) environment. This set can be used by a logistics related organization to transmit data to a shipper in response to a logistics service request.

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	B9	Beginning Segment for Logistics Services	M	1		n1
M	030	B9A	Service Request	M	7		
Not Used	040	L11	Business Instructions and Reference Number	O	99		
Not Used	050	G62	Date/Time	O	5		
Must Use	060	MS3	Interline Information	O	99		
Not Used	070	NTE	Note/Special Instruction	O	10		
LOOP ID - 0500						99	
Must Use	080	LCD	Place/Location Description	O	1		n2
Must Use	090	ITA	Allowance, Charge or Service	O	999		
Not Used	100	L8	Line Item Subtotal	O	999		
Not Used	110	L9	Charge Detail	O	999		
Must Use	120	L3	Total Weight and Charges	O	999		
LOOP ID - 1000						99	
Not Used	130	N7	Equipment Details	O	1		
Not Used	140	N7A	Accessorial Equipment Details	O	1		
Not Used	150	N7B	Additional Equipment Details	O	1		
Not Used	160	MEA	Measurements	O	1		
Not Used	170	M7	Seal Numbers	O	2		

## Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - 2000						99	
	010	S5	Stop-off Details	O	1		n3
Must Use	020	G62	Date/Time	O	2		
	030	L11	Business Instructions and Reference Number	O	99		
Not Used	040	ITA	Allowance, Charge or Service	O	20		
LOOP ID - 2100						1	
Must Use	050	N1	Name	O	1		
	060	N2	Additional Name Information	O	1		
Must Use	070	N3	Address Information	O	2		
Must Use	080	N4	Geographic Location	O	1		
Not Used	090	PER	Administrative Communications Contact	O	3		
LOOP ID - 2200						999	

Not Used	100	LX	Assigned Number	O	1	n4
Not Used	110	LCT	Logistics Container Tracking Information	O	1	
Not Used	120	MAN	Marks and Numbers	O	10	
Not Used	130	AT5	Bill of Lading Handling Requirements	O	6	
Not Used	140	AMT	Monetary Amount	O	1	
Not Used	150	L11	Business Instructions and Reference Number	O	10	
LOOP ID - 2250						999
Not Used	160	LAD	Lading Detail	O	1	n5
Not Used	170	PO4	Item Physical Details	O	1	
Not Used	180	G69	Line Item Detail - Description	O	99	
Not Used	190	AT5	Bill of Lading Handling Requirements	O	6	
Not Used	200	AMT	Monetary Amount	O	1	
Not Used	210	L11	Business Instructions and Reference Number	O	10	
M	220	SE	Transaction Set Trailer	M	1	

### Transaction Set Notes

1. The reference number in the B9 segment, element 01 must be a unique logistics identification number.
2. The 0500 Loop provides rate information back to shipper.
3. The 2000 Loop defines pickup or delivery information for an order.
4. The 2200 Loop provides details for tracking containers within an order.
5. The 2250 Loop provides item details.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**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:**  
**Notes:** [1] ST SEGMENT - Transportation Service Response Header

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		[2] Transaction Set Identifier Code	
		220 Logistics Service Response	
		[2] Logistics Service Response	
M	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		[3] Transaction Set Control Number	

**Segment:** **B9** Beginning Segment for Logistics Services  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a logistics service transaction set  
**Syntax Notes:**  
**Semantic Notes:** 1 B901 is the logistics identification number.  
**Comments:**  
**Notes:** [4] B9 SEGMENT - Record Number/Purpose/Shipment Method

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	B901	127	<b>Reference Identification</b>	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			[5] Offer Record Number	
			Enter the unique logistics identification number assigned by the shipper. This will equal the number submitted in the B901 of the corresponding X12 219 transportation offer.	
M	B902	353	<b>Transaction Set Purpose Code</b>	M ID 2/2
			Code identifying purpose of transaction set	
			[6] Transaction Set Purpose Code	
		00	Original	
			[6] Original	
		01	Cancellation	
			[6] Cancellation	
		04	Change	
			[6] Change	
X	B903	146	<b>Shipment Method of Payment</b>	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	

**Segment:** **B9A** Service Request  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 7  
**Purpose:** To identify the specified logistics services requested  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** [7] B9A SEGMENT - Service Request Code

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> B9A01	<u>Element</u> 1644 Service Request Code	M ID 2/2
		Code indicating the type of logistics service requested	
		[8] Service Request Code	
		CT Contracted Services	
		[8] Contracted Services	

**Segment:** **MS3** Interline Information  
**Position:** 060  
**Loop:**  
**Level:** Heading  
**Usage:** Optional (Must Use)  
**Max Use:** 99  
**Purpose:** To identify the interline carrier and relevant data  
**Syntax Notes:** 1 If MS305 is present, then MS303 is required.  
**Semantic Notes:** 1 MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.  
 2 MS303 is the city where the interline was performed.  
**Comments:**  
**Notes:** [9] MS3 SEGMENT - Transportation Company Tendered To

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	MS301	140	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code [10] Standard Carrier Alpha Code (SCAC) Enter the SCAC of the carrier. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M ID 2/4
M	MS302	133	<b>Routing Sequence Code</b> Code describing the relationship of a carrier to a specific shipment movement [11] Routing Sequence Code Use code value 'B' to satisfy X12 syntax requirements. B Origin/Delivery Carrier (Any Mode) [11] Origin/Delivery Carrier (Any Mode)	M ID 1/2
X	MS303	19	<b>City Name</b>	X AN 2/30
>>	MS304	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment [12] Transportation Method/Type Code AE Air Express [12] Air Express Use 'AE' to denote Commercial International Air Express 1-150 lbs AF Air Freight [12] Air Freight Use 'AF' to denote Commercial International Air Express 151-300 lbs.	O ID 1/2
X	MS305	156	<b>State or Province Code</b>	O ID 2/2

**Segment:** **LCD** Place/Location Description  
**Position:** 080  
**Loop:** 0500 Optional (Must Use)  
**Level:** Heading  
**Usage:** Optional (Must Use)  
**Max Use:** 1  
**Purpose:** To further define and describe a place or location  
**Syntax Notes:** 1 If either LCD05 or LCD06 is present, then the other is required.  
**Semantic Notes:**  
**Comments:**  
**Notes:** [13] LCD SEGMENT - Mandatory Loop Header  
 Segment required because L3 segment is used. Segment required because L3 segment is used.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LCD01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set [14] Mandatory Element Enter value 'Z' to satisfy X12 syntax.	M AN 1/20
X	LCD02	98	<b>Entity Identifier Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3
X	LCD03	306	<b>Action Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
X	LCD04	373	<b>Date</b>	O DT 8/8
X	LCD05	66	<b>Identification Code Qualifier</b> Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	LCD06	67	<b>Identification Code</b>	X AN 2/80

**Segment:** **ITA** Allowance, Charge or Service  
**Position:** 090  
**Loop:** 0500 Optional (Must Use)  
**Level:** Heading  
**Usage:** Optional (Must Use)  
**Max Use:** 999  
**Purpose:** To specify allowances, charges, or services  
**Syntax Notes:**

- 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
- 2 If ITA08 is present, then ITA09 is required.
- 3 If either ITA10 or ITA11 is present, then the other is required.
- 4 If ITA15 is present, then ITA02 is required.
- 5 If ITA17 is present, then ITA12 is required.

**Semantic Notes:**

- 1 ITA09 is the allowance or charge percent.
- 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 3 ITA12 is the quantity of free goods.

**Comments:**

- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
- 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
- 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
- 4 ITA13 is used to clarify the allowance, charge, or service.
- 5 ITA15 specifies the individual code list of the agency specified in ITA02.
- 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

**Notes:** [15] ITA SEGMENT - Transportation Service Level

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	ITA01	248	<b>Allowance or Charge Indicator</b>	M ID 1/1
			Code which indicates an allowance or charge for the service specified	
			[16] Transportation Service Code	
		A	Allowance	
			[16] Allowance	
			Use 'A' to denote Transportation Service Level information	
X	ITA02	559	<b>Agency Qualifier Code</b>	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA03	560	<b>Special Services Code</b>	X ID 2/10
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA04	331	<b>Allowance or Charge Method of Handling Code</b>	M ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA05	341	<b>Allowance or Charge Number</b>	O AN 1/16
X	ITA06	359	<b>Allowance or Charge Rate</b>	O R 1/15
X	ITA07	360	<b>Allowance or Charge Total Amount</b>	O N2 1/15
X	ITA08	378	<b>Allowance/Charge Percent Qualifier</b>	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA09	332	<b>Percent</b>	X R 1/6
X	ITA10	380	<b>Quantity</b>	X R 1/15
X	ITA11	355	<b>Unit or Basis for Measurement Code</b>	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA12	380	<b>Quantity</b>	X R 1/15
>>	ITA13	352	<b>Description</b>	X AN 1/80
			A free-form description to clarify the related data elements and their content	
			[17] Transportation Service Description	
			Enter the carrier-unique Transportation Service Level Code to describe the	

			level of service requested for the shipment (e.g., next day air, 2nd day air).	
X	ITA14	150	<b>Special Charge or Allowance Code</b>	X ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA15	822	<b>Source Subqualifier</b>	O AN 1/15
X	ITA16	662	<b>Relationship Code</b>	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA17	355	<b>Unit or Basis for Measurement Code</b>	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	

**Segment:** **L3 Total Weight and Charges**  
**Position:** 120  
**Loop:** 0500 Optional (Must Use)  
**Level:** Heading  
**Usage:** Optional (Must Use)  
**Max Use:** 999  
**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:**

**Notes:** [18] L3 SEGMENT - Shipment Weight/Rate Totals

**Data Element Summary**

Ref.	Data Element	Name	Attributes
>>	L301	81 Weight	X R 1/10
		Numeric value of weight	
		[19] Gross Weight Enter gross weight in pounds.	
>>	L302	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		[20] Weight Qualifier	
		G Gross Weight	
		[20] Gross Weight	
>>	L303	60 Freight Rate	X R 1/9
		Rate that applies to the specific commodity	
		[21] Rate Enter the rate for the shipment.	
>>	L304	122 Rate/Value Qualifier	X ID 2/2
		Code qualifying how to extend charges or interpret value	
		[22] Rate Qualifier	
		LB Per Pound	
		[22] Per Pound	
		Use 'LB' to denote Air/Express	
>>	L305	58 Charge	O N2 1/12
		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	
		[23] Estimated Shipment Charge Enter the total estimated charge for the shipment.	
	L306	191 Advances	O N2 1/9
		Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified	
		[24] Accessorial Service Charges Enter the total cost of accessorial services requested (should equal the sum of each ATM02 value in the first S5 segment).. ELEMENT CONDITION: Do not use to report fuel surcharge -- use L307.	
	L307	117 Prepaid Amount	O N2 1/9
		Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	
		[25] Fuel Surcharge	

Include as part of total shipment charge in L305.  
 ELEMENT CONDITION: If applicable, report fuel surcharge for shipment here.

X	L308	150	<b>Special Charge or Allowance Code</b>	O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L309	183	<b>Volume</b>	X R 1/8
X	L310	184	<b>Volume Unit Qualifier</b>	X ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	L311	80	<b>Lading Quantity</b>	O N0 1/7
			Number of units (pieces) of the lading commodity	
			[26] Lading Quantity	
			Enter number of shipment units in offer (should equal number of LCT segments in the following first S5 segment).	
X	L312	188	<b>Weight Unit Code</b>	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L313	171	<b>Tariff Number</b>	O AN 1/7
X	L314	74	<b>Declared Value</b>	X N2 2/12
X	L315	122	<b>Rate/Value Qualifier</b>	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	

**Segment:** **S5 Stop-off Details**  
**Position:** 010  
**Loop:** 2000 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:**  
**Notes:**

[27] S5 SEGMENT - Pick-up Location  
 Use this S5 loop to describe shipment pickup information and pickup location.  
 LOOP CONDITION: Use this S5 loop to describe shipment pickup information and pickup location.  
 [59] S5 SEGMENT - Delivery Location Loop  
 This S5 loop describes shipment delivery information and delivery location. It may be repeated if shipment units are delivered to multiple locations. This S5 loop describes shipment delivery information and delivery location. It may be repeated if shipment units are delivered to multiple locations.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	S501	165	<b>Stop Sequence Number</b> Identifying number for the specific stop and the sequence in which the stop is to be performed [28] Stop Sequence Number Enter value one (1) and increment by one for each successive S5 segment. [60] Stop Sequence Number Per usage note in previous S5 segment, enter value two (2) and increment by one for each successive S5 segment.	M N0 1/3
M	S502	163	<b>Stop Reason Code</b> Code specifying the reason for the stop [29] Stop Reason Code [61] Stop Reason Code LD Load [29] Load UL Unload [61] Unload	M ID 2/2
X	S503	81	<b>Weight</b>	X R 1/10
X	S504	188	<b>Weight Unit Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
X	S505	382	<b>Number of Units Shipped</b>	X R 1/10
X	S506	355	<b>Unit or Basis for Measurement Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	S507	183	<b>Volume</b>	X R 1/8
X	S508	184	<b>Volume Unit Qualifier</b> Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
X	S509	352	<b>Description</b>	O AN 1/80
X	S510	154	<b>Standard Point Location Code</b>	O ID 6/9
X	S511	190	<b>Accomplish Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

**Segment:** **G62** Date/Time  
**Position:** 020  
**Loop:** 2000 Optional  
**Level:** Detail  
**Usage:** Optional (Must Use)  
**Max Use:** 2  
**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:**

**Notes:** [30] G62 SEGMENT - Scheduled Pick-up Date

**Data Element Summary**

Ref.	Data Element	Name	Attributes
>>	G6201	432 Date Qualifier	X ID 2/2
		Code specifying type of date	
		[31] Scheduled Pick-up Date Qualifier	
		10 Requested Ship Date/Pick-up Date	
		[31] Requested Ship Date/Pick-up Date	
		Use '10' to denote Requested Pick-up Date	
>>	G6202	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		[32] Scheduled Pick-up Date	
	G6203	176 Time Qualifier	X ID 1/2
		Code specifying the reported time	
		[33] Time Qualifier	
		U Scheduled Pick Up Time	
		[33] Scheduled Pick Up Time	
	G6204	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)	
		[34] Scheduled Pick-up Time	
		Format is 'HHMM'.	
	G6205	623 Time Code	O 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	
		[35] Time Code	
		ELEMENT CONDITION: Required if G6204 is present.	
		SOURCE: ISO 8601 available from American National Standards Institute	
		LT Local Time	
		[35] Local Time	
		UT Universal Time Coordinate	
		[35] Universal Time Coordinate	

**Segment:** **L11 Business Instructions and Reference Number**  
**Position:** 030  
**Loop:** 2000 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 99  
**Purpose:** To specify instructions in this business relationship or a reference number  
**Syntax Notes:** 1 At least one of L1101 or L1103 is required.  
 2 If either L1101 or L1102 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

[36] L11 SEGMENT - Transportation Tracking Number  
 SEGMENT CONDITION: Required if express carrier Tracking Numbers are assigned to the shipment.  
 [39] L11 SEGMENT - Airway Bill Number  
 SEGMENT CONDITION: Required if Airway Bill Number is known.  
 [42] L11 SEGMENT - Carton Control Number (CCN)  
 SEGMENT CONDITION: Required if the CCN is known.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
>>	L1101	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		[37] Transportation Tracking Number Enter the Transportation Tracking Number.	
		[40] Airway Bill Number Enter Airway Bill Number.	
		[43] CCN Enter CCN.	
>>	L1102	128 Reference Identification Qualifier	X ID 2/3
		Code qualifying the Reference Identification	
		[38] Transportation Tracking Number Qualifier	
		[41] Airway Bill Number Qualifier	
		[44] CCN Qualifier	
		2I Tracking Number	
		[38] Tracking Number	
		AW Air Waybill Number	
		[41] Air Waybill Number	
		ZZ Mutually Defined	
		[44] Mutually Defined	
		Use 'ZZ' to denote CCN	
X	L1103	352 Description	X AN 1/80

**Segment:** **N1** Name  
**Position:** 050  
**Loop:** 2100 Optional (Must Use)  
**Level:** Detail  
**Usage:** Optional (Must Use)  
**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.  
**Notes:** [45] N1 SEGMENT - Origin (SF) Data  
 [62] N1 SEGMENT - Ship-to (ST)  
 .  
 [76] N1 SEGMENT - Origin Port Code and Name  
 LOOP CONDITION: Required if Origin Airport is known.  
 [81] N1 SEGMENT - Destination Port Code  
 LOOP CONDITION: Required if Destination Airport is known.

### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[46] Origin Name Qualifier	
		[63] Ship-to (ST) Name Qualifier	
		[77] Origin Port Name Qualifier	
		[82] Destination Port Qualifier	
		DT Destination Terminal	
		[82] Destination Terminal	
		Use 'DT' to denote Destination Airport Name	
		OT Origin Terminal	
		[77] Origin Terminal	
		Use 'OT' to denote Origin Airport Name	
		SF Ship From	
		[46] Ship From	
		ST Ship To	
		[63] Ship To	
>>	N102	93 Name	X AN 1/60
		Free-form name	
		[47] Origin Name	
		ELEMENT CONDITION: If available, data must be sent	
		[64] Ship-to (ST) Name	
		[78] Origin Port Name	
		Enter Origin Airport Name	
		[83] Destination Port Code Name	
		Enter Destination Airport Name.	
>>	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		[48] DoDAAC/CAGE Qualifier	
		[65] DoDAAC/CAGE Qualifier	
		[79] Origin Port Code Qualifier	
		[84] Destination Port Code Qualifier	

		4	International Air Transport Association (IATA)	
			[79] International Air Transport Association (IATA)	
			Use '4' to denote IATA Port Code	
			[84] International Air Transport Association (IATA)	
			Use '4' to denote IATA Port Code	
		10	Department of Defense Activity Address Code (DODAAC)	
			[48] Department of Defense Activity Address Code (DODAAC)	
			[65] Department of Defense Activity Address Code (DODAAC)	
		33	Commercial and Government Entity (CAGE)	
			[48] Commercial and Government Entity (CAGE)	
			[65] Commercial and Government Entity (CAGE)	
>>	<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X AN 2/80</b>
			Code identifying a party or other code	
			[49] Origin DoDAAC/CAGE	
			[66] Ship-to (ST) Identification Code	
			[80] Origin Port Code	
			Enter the IATA code for the Origin Airport.	
			[85] Destination Port Code	
			Enter the IATA code for the Destination Airport.	
<b>X</b>	<b>N105</b>	<b>706</b>	<b>Entity Relationship Code</b>	<b>O ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>X</b>	<b>N106</b>	<b>98</b>	<b>Entity Identifier Code</b>	<b>O ID 2/3</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	

**Segment:** **N2 Additional Name Information**  
**Position:** 060  
**Loop:** 2100 Optional (Must Use)  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:**

[50] N2 SEGMENT - Additional Origin Name  
 SEGMENT CONDITION: Use if additional origin name applies.  
 [67] N2 SEGMENT - Additional Ship-to (ST) Name  
 SEGMENT CONDITION: Use when additional Ship-to (ST) Name applies.

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
M	N201	93	Name Free-form name	M AN 1/60
X	N202	93	Name	O AN 1/60

**Segment:** N3 Address Information  
**Position:** 070  
**Loop:** 2100 Optional (Must Use)  
**Level:** Detail  
**Usage:** Optional (Must Use)  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:**

[52] N3 SEGMENT - Origin (SF) Street Address  
 [69] N3 SEGMENT - Ship-to (ST) Street Address

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
			[53] Origin Street Address [70] Ship-to (ST) Street Address	
X	N302	166	Address Information	O AN 1/55

**Segment:** **N4 Geographic Location**  
**Position:** 080  
**Loop:** 2100 Optional (Must Use)  
**Level:** Detail  
**Usage:** Optional (Must Use)  
**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.  
**Notes:** [54] N4 SEGMENT - Origin (SF) City Name and State/ZIP Codes  
[71] N4 SEGMENT - Ship-to (ST) City Name and State/ZIP Codes

#### Data Element Summary

Ref.	Data Element	Name	Attributes
>>	N401	19 City Name	O AN 2/30
		Free-form text for city name	
		[55] Origin City Name	
		[72] Ship-to (ST) City Name	
>>	N402	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		[56] Origin State Code	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[73] Ship-to (ST) State Code	
		ELEMENT CONDITION: If available, data must be sent	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
>>	N403	116 Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
		[57] Origin ZIP Code	
		SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	
		[74] Ship-to (ST) ZIP Code	
		SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	
>>	N404	26 Country Code	O ID 2/3
		Code identifying the country	
		[58] Origin Country Code	
		Enter the ISO Country Code.	
		ELEMENT CONDITION: Origin Country Code is required if known.	
		SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
		[75] Ship To (ST) Country Code	
		Enter the ISO Country Code.	
		SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
X	N405	309 Location Qualifier	X ID 1/2

Refer to 004010 Data Element Dictionary for acceptable code values.

**X**

**N406**

**310**

**Location Identifier**

**O AN 1/30**

**Segment:** **SE** Transaction Set Trailer  
**Position:** 220  
**Loop:**  
**Level:** Detail  
**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.

**Notes:** [86] SE SEGMENT - Transportation Service Response Trailer

SE is the last segment of each transaction set.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SE01	96	<b>Number of Included Segments</b>	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
			[87] Number of Included Segments	
M	SE02	329	<b>Transaction Set Control Number</b>	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			[88] Transaction Set Control Number	
			This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	

## Section 4.0

# IC ELEMENT MATRIX

### OVERVIEW

In order to implement an EDI transaction set, trading partners need to identify the application data elements they plan to exchange, identify where they plan to carry the data within the structure of the EDI transaction (a task commonly called mapping), identify any additional X12 data such as qualifier codes, and publish that information in an implementation convention (IC). This section contains an IC element matrix that lists that information.

### PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. The application notes section below describes the application specific to this IC element matrix.

### HOW TO READ THE IC ELEMENT MATRIX

To read the matrix, trading partners need to understand matrix record types, two categories of matrix information, the matrix layout, and the sort order of the matrix.

#### *Record Types*

The matrix contains two types of records: segment header records and element records.

- Segment header records begin the description of a segment. Each segment header record starts the description of a discrete occurrence of an X12 segment. The element records (see below) that follow a segment header record cannot be co-mingled with elements from other segments, including those segments with matching IDs.
- Element records identify an individual data element that occurs within a segment. Each element satisfies either an application requirement or X12 standard syntax. If one element in a segment is passed, all elements in the segment need to be passed in accordance with the IC requirement designator.

#### *Two Categories of Record Information*

The matrix contains two categories of information: IC application information and ASC X12 information.

- IC application information describes attributes outside the structure and syntax of the ASC X12 standard.
- ASC X12 information is attached to each IC element. That information is extracted directly from the X12 standard dictionary and enables programmers to map the IC element into the standards.

### *Matrix Layout*

The IC element matrix lists information in sixteen columns.

- IC Index Number (Index) enables designers and programmers to quickly cite a record in the matrix.
- IC Data Group Number (DG) is a number assigned by the IC developers. That number identifies an IC element with a group of elements that form a database table within the application data model. In order to quickly reference a table, Defense transportation developers label database tables with a Data Group number. For example, a “Bill To Address” may belong to the “PURCHASE ORDER” parent table with GRP = 10. A “Stop-off Delivery Address” may belong to the “ITEM DELIVERY” child table with GRP = 60.
- IC Data Element Name (Data Name) is a label for each data element using terminology common to the business environment. The IC element matrix identifies an element as a “Carrier Shipment ID.” This is more concise than using the generic X12 label of “Shipment Identification Number.” A segment header record identifies the segment ID in this field.
- IC Notes & Codes (DoD Information Notes and Codes) can contain application notes about various segment and element conditions or requirements. This column may also list both X12 standard codes and DoD unique codes. If the list is larger than 20 codes, it may appear in the section that contains Code Lists.
- IC Attributes (Attributes). When part of a segment header record, this column indicates the usage of the segment. When part of an element record, this column indicates the usage of the element within the segment, if the segment is used. Attributes may differ from those in the X12 standard. For example, if trading partners expect to exchange a purchase order number that has a specific length and structure, those attributes are described here. Attributes include requirement designator, data element type, minimum length and maximum length.
- 12 Transaction Set Table Number (Tabl).
- X12 Segment Position (Pos).
- X12 Requirement Designator (Req Des). This column applies only to Segment Header type matrix records.
- X12 Maximum Usage (Max Use). This column applies only to Segment Header type matrix records.
- X12 Loop Repeat (Lp Rpt) indicates the number of times a loop may be used. This column applies only to Segment Header type matrix records.
- X12 Loop Level (Lp Lv). Loops may be nested within other loops. This column indicates the nesting level for each loop and applies only to Segment Header type matrix records.
- X12 Loop ID (Lp ID). This column applies only to Segment Header type matrix records.
- X12 Segment Reference Designator (Ref Des). This column applies only to Element type matrix records.
- X12 Simple or Composite Data Element Number (DE#). This column applies only to Element type matrix records.

- X12 Simple Data Element Attributes (Attributes). Attributes listed include the data element requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.
- X12 Composite Data Element Attributes ((Composite) Attributes). Attributes listed include the simple data element number, requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.

### *Sort Order of the Matrix*

The matrix presents IC elements in an order that enables programmers to generate application-to-translator interface files (also known as user-defined files or UDFs) that are syntactically correct to ASC X12 standards. IC elements are grouped under segment header records. When exchanging an IC element, the programmer needs to generate the entire segment under which the element is listed. Likewise, when exchanging a segment, the programmer needs to generate the entire loop structure to which the segment belongs.

### APPLICATION NOTES

The IC element matrix in this section maps data requirements for the GBL Information Request. DoD coordinated the IC elements between transportation activities involved in the DoD electronic data interchange effort.

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DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
1		<b>ST SEGMENT - Transportation Service Response Header</b>	M	1	010	M	1							
2		Transaction Set Identifier Code 220 - Logistics Service Response	M ID 3/3	1	010	M	1				ST01	143	M	ID 3/3
3		Transaction Set Control Number	M AN 4/9	1	010	M	1				ST02	329	M	AN 4/9
4		<b>B9 SEGMENT - Record Number/Purpose/Shipment Method</b>	M	1	020	M	1							
5		Offer Record Number Enter the unique logistics identification number assigned by the shipper. This will equal the number submitted in the B901 of the corresponding X12 219 transportation offer.	M AN 1/30	1	020	M	1				B901	127	M	AN 1/30
6		Transaction Set Purpose Code 00 - Original 01 - Cancellation 04 - Change	M ID 2/2	1	020	M	1				B902	353	M	ID 2/2
7		<b>B9A SEGMENT - Service Request Code</b>	M	1	030	M	7							
8		Service Request Code CT - Contracted Services	M ID 2/2	1	030	M	7				B9A01	1644	M	ID 2/2
9		<b>MS3 SEGMENT - Transportation Company Tendered To</b>	M	1	060	O	99							
														See X12 Standards for explanation of syntax notes. C0503
10		Standard Carrier Alpha Code (SCAC) Enter the SCAC of the carrier.  SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M ID 2/4	1	060	O	99				MS301	140	M	ID 2/4
11		Routing Sequence Code Use code value 'B' to satisfy X12 syntax requirements.  B - Origin/Delivery Carrier (Any Mode)	M ID 1/1	1	060	O	99				MS302	133	M	ID 1/2

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DoD INFORMATION					X12 SEGMENT INFORMATION						X12 ELEMENT INFORMATION						
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes			
12		Transportation Method/Type Code AE - Air Express  <i>Use 'AE' to denote Commercial International Air Express 1-150 lbs.</i>  AF - Air Freight  <i>Use 'AF' to denote Commercial International Air Express 151-300 lbs..</i>	M	ID	1/2	1	060	O	99			MS304	91	O	ID	1/2	
13		<b>LCD SEGMENT - Mandatory Loop Header</b> Segment required because L3 segment is used. Segment required because L3 segment is used.	M			1	080	O	1	99	1	0500					
																See X12 Standards for explanation of syntax notes. P0506	
14		Mandatory Element Enter value 'Z' to satisfy X12 syntax.	M	AN	1/1	1	080	O	1	99	1	0500	LCD01	350	M	AN	1/20
15		<b>ITA SEGMENT - Transportation Service Level</b>	M			1	090	O	999	99	1	0500					
																See X12 Standards for explanation of syntax notes. L02031314C0809P1011C1502C1712	
16		Transportation Service Code A - Allowance  <i>Use 'A' to denote Transportation Service Level information.</i>	M	ID	1/1	1	090	O	999	99	1	0500	ITA01	248	M	ID	1/1
17		Transportation Service Description Enter the carrier-unique Transportation Service Level Code to describe the level of service requested for the shipment (e.g., next day air, 2nd day air).	M	AN	1/3	1	090	O	999	99	1	0500	ITA13	352	C	AN	1/80
18		<b>L3 SEGMENT - Shipment Weight/Rate Totals</b>	M			1	120	O	999	99	1	0500					
																See X12 Standards for explanation of syntax notes. P0102P0304P0910C1201P1415	
19		Gross Weight Enter gross weight in pounds.	M	R	1/10	1	120	O	999	99	1	0500	L301	81	C	R	1/10
20		Weight Qualifier G - Gross Weight	M	ID	1/1	1	120	O	999	99	1	0500	L302	187	C	ID	1/2
21		Rate Enter the rate for the shipment.	M	R	1/9	1	120	O	999	99	1	0500	L303	60	C	R	1/9
22		Rate Qualifier LB - Per Pound  <i>Use 'LB' to denote Air/Express.</i>	M	ID	2/2	1	120	O	999	99	1	0500	L304	122	C	ID	2/2

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes			
23		Estimated Shipment Charge Enter the total estimated charge for the shipment.	M	N2	1/12	1	120	O	999	99	1	0500	L305	58	O	N2	1/12
24		Accessorial Service Charges Enter the total cost of accessorial services requested (should equal the sum of each ATM02 value in the first S5 segment).  ELEMENT CONDITION: Do not use to report fuel surcharge -- use L307.	C	N2	1/9	1	120	O	999	99	1	0500	L306	191	O	N2	1/9
25		Fuel Surcharge Include as part of total shipment charge in L305.  ELEMENT CONDITION: If applicable, report fuel surcharge for shipment here.	C	N2	1/9	1	120	O	999	99	1	0500	L307	117	O	N2	1/9
26		Lading Quantity Enter number of shipment units in offer (should equal number of LCT segments in the following first S5 segment).	M	N0	1/7	1	120	O	999	99	1	0500	L311	80	O	N0	1/7
27		<b>S5 SEGMENT - Pick-up Location</b> LOOP CONDITION: Use this S5 loop to describe shipment pickup information and pickup location.  Use this S5 loop to describe shipment pickup information and pickup location.	C			2	010	O	1	99	1	2000					See X12 Standards for explanation of syntax notes. P0304P0506P0708
28		Stop Sequence Number Enter value one (1) and increment by one for each successive S5 segment.	M	N0	1/3	2	010	O	1	99	1	2000	S501	165	M	N0	1/3
29		Stop Reason Code LD - Load	M	ID	2/2	2	010	O	1	99	1	2000	S502	163	M	ID	2/2
30		<b>G62 SEGMENT - Scheduled Pick-up Date</b>	M			2	020	O	2	99	1	2000					See X12 Standards for explanation of syntax notes. R0103P0102P0304
31		Scheduled Pick-up Date Qualifier 10 - Requested Ship Date/Pick-up Date  Use '10' to denote Requested Pick-up Date.	M	ID	2/2	2	020	O	2	99	1	2000	G6201	432	C	ID	2/2
32		Scheduled Pick-up Date	M	DT	8/8	2	020	O	2	99	1	2000	G6202	373	C	DT	8/8
33		Time Qualifier U - Scheduled Pick Up Time	C	ID	1/1	2	020	O	2	99	1	2000	G6203	176	C	ID	1/2

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
34		Scheduled Pick-up Time Format is 'HHMM'.	C	TM	4/4	2	020	O	2	99	1	2000	G6204	337	C TM	4/8
35		Time Code ELEMENT CONDITION: Required if G6204 is present.  SOURCE: ISO 8601 available from American National Standards Institute  LT - Local Time  UT - Universal Time Coordinate	C	ID	2/2	2	020	O	2	99	1	2000	G6205	623	O ID	2/2
36		<b>L11 SEGMENT - Transportation Tracking Number</b> SEGMENT CONDITION: Required if express carrier Tracking Numbers are assigned to the shipment.	C			2	030	O	99	99	1	2000	See X12 Standards for explanation of syntax notes. R0103P0102			
37		Transportation Tracking Number Enter the Transportation Tracking Number.	M	AN	1/30	2	030	O	99	99	1	2000	L1101	127	C AN	1/30
38		Transportation Tracking Number Qualifier 2I - Tracking Number	M	ID	2/2	2	030	O	99	99	1	2000	L1102	128	C ID	2/3
39		<b>L11 SEGMENT - Airway Bill Number</b> SEGMENT CONDITION: Required if Airway Bill Number is known.	C			2	030	O	99	99	1	2000	See X12 Standards for explanation of syntax notes. R0103P0102			
40		Airway Bill Number Enter Airway Bill Number.	M	AN	1/20	2	030	O	99	99	1	2000	L1101	127	C AN	1/30
41		Airway Bill Number Qualifier AW - Air Waybill Number	M	ID	2/2	2	030	O	99	99	1	2000	L1102	128	C ID	2/3
42		<b>L11 SEGMENT - Carton Control Number (CCN)</b> SEGMENT CONDITION: Required if the CCN is known.	C			2	030	O	99	99	1	2000	See X12 Standards for explanation of syntax notes. R0103P0102			
43		CCN Enter CCN.	M	AN	1/10	2	030	O	99	99	1	2000	L1101	127	C AN	1/30
44		CCN Qualifier ZZ - Mutually Defined  Use 'ZZ' to denote CCN.	M	ID	2/2	2	030	O	99	99	1	2000	L1102	128	C ID	2/3
45		<b>N1 SEGMENT - Origin (SF) Data</b>	M			2	050	O	1	1	2	2100	See X12 Standards for explanation of syntax notes. R0203P0304			

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
46		Origin Name Qualifier SF - Ship From	M	ID	2/2	2	050	O	1	1	2	2100	N101	98	M ID 2/3
47		Origin Name ELEMENT CONDITION: If available, data must be sent	C	AN	1/60	2	050	O	1	1	2	2100	N102	93	C AN 1/60
48		DoDAAC/CAGE Qualifier 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE)	M	ID	2/2	2	050	O	1	1	2	2100	N103	66	C ID 1/2
49		Origin DoDAAC/CAGE	M	AN	5/6	2	050	O	1	1	2	2100	N104	67	C AN 2/80
50		<b>N2 SEGMENT - Additional Origin Name</b> SEGMENT CONDITION: Use if additional origin name applies.	C			2	060	O	1	1	2	2100			
51		Additional Origin Name	M	AN	1/60	2	060	O	1	1	2	2100	N201	93	M AN 1/60
52		<b>N3 SEGMENT - Origin (SF) Street Address</b>	M			2	070	O	2	1	2	2100			
53		Origin Street Address	M	AN	1/55	2	070	O	2	1	2	2100	N301	166	M AN 1/55
54		<b>N4 SEGMENT - Origin (SF) City Name and State/ZIP Codes</b>	M			2	080	O	1	1	2	2100			
See X12 Standards for explanation of syntax notes. C0605															
55		Origin City Name	M	AN	2/30	2	080	O	1	1	2	2100	N401	19	O AN 2/30
56		Origin State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	2	080	O	1	1	2	2100	N402	156	O ID 2/2
57		Origin ZIP Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	M	ID	5/9	2	080	O	1	1	2	2100	N403	116	O ID 3/15

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DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
58		Origin Country Code Enter the ISO Country Code.  ELEMENT CONDITION: Origin Country Code is required if known.  SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C ID 2/2	2	080	O	1	1	2	2100	N404	26	O ID	2/3
59		<b>S5 SEGMENT - Delivery Location Loop</b> This S5 loop describes shipment delivery information and delivery location. It may be repeated if shipment units are delivered to multiple locations. This S5 loop describes shipment delivery information and delivery location. It may be repeated if shipment units are delivered to multiple locations.	C	2	010	O	1	99	1	2000	See X12 Standards for explanation of syntax notes. P0304P0506P0708			
60		Stop Sequence Number Per usage note in previous S5 segment, enter value two (2) and increment by one for each successive S5 segment.	M NO 1/3	2	010	O	1	99	1	2000	S501	165	M NO	1/3
61		Stop Reason Code UL - Unload	M ID 2/2	2	010	O	1	99	1	2000	S502	163	M ID	2/2
62		<b>N1 SEGMENT - Ship-to (ST)</b> ..	M	2	050	O	1	1	2	2100	See X12 Standards for explanation of syntax notes. R0203P0304			
63		Ship-to (ST) Name Qualifier ST - Ship To	M ID 2/2	2	050	O	1	1	2	2100	N101	98	M ID	2/3
64		Ship-to (ST) Name	M AN 1/60	2	050	O	1	1	2	2100	N102	93	C AN	1/60
65		DoDAAC/CAGE Qualifier 10 - Department of Defense Activity Address Code (DODAAC)  33 - Commercial and Government Entity (CAGE)	M ID 2/2	2	050	O	1	1	2	2100	N103	66	C ID	1/2
66		Ship-to (ST) Identification Code	M AN 5/6	2	050	O	1	1	2	2100	N104	67	C AN	2/80
67		<b>N2 SEGMENT - Additional Ship-to (ST) Name</b> SEGMENT CONDITION: Use when additional Ship-to (ST) Name applies.	C	2	060	O	1	1	2	2100				
68		Additional Ship-to (ST) Name	M AN 1/60	2	060	O	1	1	2	2100	N201	93	M AN	1/60

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DoD INFORMATION					X12 SEGMENT INFORMATION						X12 ELEMENT INFORMATION					
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
69		<b>N3 SEGMENT - Ship-to (ST) Street Address</b>	M		2	070	O	2	1	2	2100					
70		Ship-to (ST) Street Address	M	AN 1/55	2	070	O	2	1	2	2100	N301	166	M AN	1/55	
71		<b>N4 SEGMENT - Ship-to (ST) City Name and State/ZIP Codes</b>	M		2	080	O	1	1	2	2100					
					See X12 Standards for explanation of syntax notes. C0605											
72		Ship-to (ST) City Name	M	AN 2/30	2	080	O	1	1	2	2100	N401	19	O AN	2/30	
73		Ship-to (ST) State Code ELEMENT CONDITION: If available, data must be sent  SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID 2/2	2	080	O	1	1	2	2100	N402	156	O ID	2/2	
74		Ship-to (ST) ZIP Code  SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	M	ID 5/9	2	080	O	1	1	2	2100	N403	116	O ID	3/15	
75		Ship To (ST) Country Code Enter the ISO Country Code.  SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	M	ID 2/2	2	080	O	1	1	2	2100	N404	26	O ID	2/3	
76		<b>N1 SEGMENT - Origin Port Code and Name</b> LOOP CONDITION: Required if Origin Airport is known.	C		2	050	O	1	1	2	2100			See X12 Standards for explanation of syntax notes. R0203P0304		
77		Origin Port Name Qualifier OT - Origin Terminal  <i>Use 'OT' to denote Origin Airport Name.</i>	M	ID 2/2	2	050	O	1	1	2	2100	N101	98	M ID	2/3	
78		Origin Port Name Enter Origin Airport Name	M	AN 1/60	2	050	O	1	1	2	2100	N102	93	C AN	1/60	
79		Origin Port Code Qualifier 4 - International Air Transport Association (IATA)  <i>Use '4' to denote IATA Port Code.</i>	M	ID 1/1	2	050	O	1	1	2	2100	N103	66	C ID	1/2	

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DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
80		Origin Port Code Enter the IATA code for the Origin Airport.	M	AN	3/3	2	050	O	1	1	2	2100	N104	67	C AN 2/80	
81		<b>N1 SEGMENT - Destination Port Code</b> LOOP CONDITION: Required if Destination Airport is known.		C		2	050	O	1	1	2	2100	See X12 Standards for explanation of syntax notes. R0203P0304			
82		Destination Port Qualifier DT - Destination Terminal  <i>Use 'DT' to denote Destination Airport Name.</i>	M	ID	2/2	2	050	O	1	1	2	2100	N101	98	M ID 2/3	
83		Destination Port Code Name Enter Destination Airport Name.	M	AN	1/60	2	050	O	1	1	2	2100	N102	93	C AN 1/60	
84		Destination Port Code Qualifier 4 - International Air Transport Association (IATA)  <i>Use '4' to denote IATA Port Code.</i>	M	ID	1/1	2	050	O	1	1	2	2100	N103	66	C ID 1/2	
85		Destination Port Code Enter the IATA code for the Destination Airport.	M	AN	3/3	2	050	O	1	1	2	2100	N104	67	C AN 2/80	
86		<b>SE SEGMENT - Transportation Service Response Trailer</b> SE is the last segment of each transaction set.	M			2	220	M	1							
87		Number of Included Segments	M	N0	1/10	2	220	M	1			SE01	96	M N0	1/10	
88		Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	M	AN	4/9	2	220	M	1			SE02	329	M AN	4/9	