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Department  
of  
Defense

DoD  
Transportation  
Electronic Business  
(DTEB) Convention

ASC X12 Transaction Set 315 Status  
Details (Ocean) (Version 004010)

**VERSION 2**

April 2012



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of  
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DoD  
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Electronic Business  
(DTEB) Convention

ASC X12 Transaction Set 315  
Status Details (Ocean) (Version  
004010)

**VERSION 0**

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## Section 1.0

# INTRODUCTION

This implementation convention (IC) describes the standard or convention the Department of Defense will use to exchange Status Details (Ocean) in support of the Defense Transportation Electronic Business (DTEB) program. The copyright on the ASC X12 standards is held by the Data Interchange Standards Association on behalf of ASC X12.

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. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.
- 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.
- Other Sections contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

## What's New In Version 2

This Implementation Convention contains all DTEB approved changes (Data Maintenance items) applied in all previous versions in addition to the changes identified in the following table.

DM Number	DM Description	Approval Date
1039	Change DoD definition of 'RD' at B403 (2-03) from "Return Container" to "Return of empty container to contractor".	

## 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 315, the correct code value for GS01 is 'QO' denoting Status Details (Ocean).

## 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>						
			Date in YYMMDD format assigned by translation software							
<b>M</b>	<b>ISA10</b>	<b>I09</b>	<b>Interchange Time</b> Time of the interchange	<b>M DT 4/4</b>						
			Time in HHMM format assigned by translation software							
<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 style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><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 style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><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			
<u>Code</u>	<u>Definition</u>									
00401	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997									
			Version/release of control segment, as agreed upon by the trading partners							
<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>						
			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</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 style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><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									
			Send code agreed upon by trading partners.							

**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**

<b>Ref Des</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>M GS01</b>	<b>479</b>	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets	<b>M ID 2/2</b>
<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 315, the correct code value for GS01 is 'QO' denoting Status Details (Ocean).</p>			
<b>M GS02</b>	<b>142</b>	<b>Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners	<b>M AN 2/15</b>
<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>			
<b>M GS03</b>	<b>124</b>	<b>Application Receiver's Code</b> Code to identify the type of information in the Security Information	<b>M AN 2/15</b>
<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)	<b>M DT 8/8</b>				
<p>Date assigned by translation software</p>								
<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)	<b>M TM 4/8</b>				
<p>Time expressed in HHMM format assigned by translation software</p>								
<b>M</b>	<b>GS06</b>	<b>28</b>	<b>Group Control Number</b> Assigned number originated and maintained by the sender	<b>M N0 1/9</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>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.	<b>M ID 1/1</b>				
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </tbody> </table>					<u>Code</u>	<u>Definition</u>	X	Accredited Standards Committee X12
<u>Code</u>	<u>Definition</u>							
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.	<b>M AN 6/6</b>				
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>004010</td> <td>Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table> <p>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.</p>					<u>Code</u>	<u>Definition</u>	004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997
<u>Code</u>	<u>Definition</u>							
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  <b>M N0 1/6</b>
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.  <b>M N0 1/9</b>

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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 generating Status Details (Ocean) using ASC X12 Transaction Set 315 Status Details (Ocean) (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 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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# 315 Status Details (Ocean)

Functional Group ID=QQ

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Status Details (Ocean) Transaction Set (315) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide all the information necessary to report status or event details for selected shipments or containers. It is intended to accommodate the details for one status or event associated with many shipments or containers, as well as more than one status or event for one shipment or container.

## Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	B4	Beginning Segment for Inquiry or Reply	M	1		
	030	N9	Reference Identification	O	30		
	040	Q2	Status Details (Ocean)	O	1		
Not Used	050	SG	Shipment Status	O	15		
			LOOP ID - R4			20	
M	060	R4	Port or Terminal	M	1		
	070	DTM	Date/Time Reference	O	15		
Not Used	080	V9	Event Detail	O	10		
M	090	SE	Transaction Set Trailer	M	1		

**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 - Status Details (Ocean) 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	
		[1-01] Transaction Set Identifier Code	
		315 Status Details (Ocean)	
		[1-01] Status Details (Ocean)	
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	
		[1-02] 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. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner. )	

**Segment:** **B4** Beginning Segment for Inquiry or Reply  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:** 1 If either B407 or B408 is present, then the other is required.  
 2 If either B411 or B412 is present, then the other is required.  
**Semantic Notes:** 1 B404 is the date of last reported status of cargo.  
**Comments:**  
**Notes:**

[2] B4 SEGMENT - Identifying Numbers and Dates  
 For reporting the status of a single container B407, B408, and B409 are required. Use codes 'U' and 'L' in B403 to report the unloading of cargo from a defective container and loading into a new container. The container TCN will remain the same. Begin reporting the new container number with the 'L' event.

**Data Element Summary**

Ref.	Data Element	Name	Attributes
X	B401	152 Special Handling Code	O ID 2/3
		Code specifying special transportation handling instructions Refer to 004010 Data Element Dictionary for acceptable code values.	
X	B402	71 Inquiry Request Number	O N0 1/3
		Identifying number assigned by inquirer	
>>	B403	157 Shipment Status Code	O ID 1/2

Code indicating the status of a shipment

[2-03] Shipment Status Code  
 CHANGE NOTE: Restore migration code value 'EC', which was dropped inadvertently, per DM 862.  
 CHANGE NOTE: Four new codes with their X12 definitions were added to the Shipment Status Code table in Section 6 per DM 1011.

AE	Loaded on Vessel
	[2-03] Loaded on Vessel
AL	Loaded on Rail
	[2-03] Loaded on Rail
AM	Loaded on Truck
	[2-03] Loaded on Truck
AO	Loaded on Barge
	[2-03] Loaded on Barge
AV	Available for Delivery
	Shipment available for delivery
	[2-03] Available for Delivery
	Use 'AV' to denote Shipment is Ready for Consignee at Place of Delivery
BD	Recommitted Delivery Date
	Delivery date and time of shipment has been revised necessitated by changes in pickup, transit, or delivery conditions not originally assumed by the carrier
	[2-03] Recommitted Delivery Date
	Use 'BD' to denote End of authorized shipment delay
CO	Cargo Received at Contractual Place of Receipt
	[2-03] Cargo Received at Contractual Place of Receipt
CR	Carrier Release
	[2-03] Carrier Release
	Use 'CR' to denote Carrier's Release Date

CT	Customs Released [2-03] Customs Released Use 'CT' to denote Customs Release Date
EC	New Code Added by IC [2-03] [Migration Code] Empty Container
EE	Empty Equipment Dispatched Empty equipment dispatched to pick up cargo [2-03] Empty Equipment Dispatched Use 'EE' to denote Container Sent by Carrier to Sourcing Location for Stuffing
FT	Free Time Expired [2-03] Free Time Expired
HG	Held on Ground [2-03] Held on Ground Use 'HG' to denote Entry into U.S. Government-directed staging
HR	Hold Released Equivalent to Automated Manifest System (AMS) disposition codes 1F, 74, 76, 80, 81 and 82 [2-03] Hold Released Use 'HR' to denote Release from U.S. Government-directed staging
I	In-Gate [2-03] In-Gate Use 'I' to denote Cargo is In-Gate at Carrier's Terminal
L	Loading Shipment is being loaded at a carrier's terminal or facility [2-03] Loading Use 'L' to denote Loading Cargo into New Container after Unloading it from Defective Container
NF	Free Time to Expire [2-03] Free Time to Expire
OA	Out-Gate [2-03] Out-Gate Use 'OA' to denote Shipment Commencement to Consignee
P	Departed Terminal Location Shipment has left the carrier's terminal or other control point [2-03] Departed Terminal Location Use 'P' to denote Shipment Stop-offs from Origin Location to Terminal
RD	Return Container [2-03] Return Container Use 'RD' to denote Return of empty container to contractor. CHANGE NOTE: Definition modified per DM 1039.
SD	Shipment Delayed [2-03] Shipment Delayed Use 'SD' to denote Authorized shipment delay
U	Unloading Shipment being unloaded [2-03] Unloading Use 'U' to denote Unloading Cargo from Defective Container (e.g., a bad reefer container)
UV	Unloaded From Vessel [2-03] Unloaded From Vessel

VA	Vessel Arrival Vessel scheduled to arrive or has arrived [2-03] Vessel Arrival
VD	Vessel Departure Vessel scheduled to depart or has departed [2-03] Vessel Departure
W	Released by Customer [2-03] Released by Customer Use 'W' to denote Carrier Takes Possession of the Shipment/Shipment Pickup at Sourcing Point
X1	Arrived at Delivery Location The carrier has arrived at the shipment delivery location [2-03] Arrived at Delivery Location Use 'X1' to denote Arrived at Delivery Location (either Cargo Booked to Port at time of Acceptance by Customer or Cargo Booked to Door at Time of Delivery 'In Theater' to Customer)
X6	En Route to Delivery Location [2-03] En Route to Delivery Location Use 'X6' to denote Cargo Transferred to/for Rail Movement

>>	<b>B404</b>	<b>373</b>	<b>Date</b>	<b>O</b>	<b>DT 8/8</b>
			Date expressed as CCYYMMDD [2-04] Date		
>>	<b>B405</b>	<b>161</b>	<b>Status Time</b>	<b>O</b>	<b>TM 4/4</b>
			Enter in the actual date the event took place. [2-05] Status Time		
X	<b>B406</b>	<b>159</b>	<b>Status Location</b>	<b>O</b>	<b>AN 3/5</b>
			Enter the local time that the event actually happened. Air shipment: Airport code for last reported status for a shipment; (Note: If the shipment is in-flight, the status location is the origin airport for this flight) Ground transportation: Code of carrier's terminal		
	<b>B407</b>	<b>206</b>	<b>Equipment Initial</b>	<b>X</b>	<b>AN 1/4</b>
			Prefix or alphabetic part of an equipment unit's identifying number [2-07] Equipment Initial		
	<b>B408</b>	<b>207</b>	<b>Equipment Number</b>	<b>X</b>	<b>AN 1/10</b>
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) [2-08] Equipment Number		
	<b>B409</b>	<b>578</b>	<b>Equipment Status Code</b>	<b>O</b>	<b>ID 1/2</b>
			Code indicating status of equipment [2-09] Equipment Status Code		

			ELEMENT CONDITION: Not used for break bulk cargo.	
		E	Empty	
			[2-09] Empty	
		L	Load	
			[2-09] Load	
	<b>B410</b>	<b>24</b>	<b>Equipment Type</b>	<b>O ID 4/4</b>
			Code identifying equipment type	
			[2-10] Equipment Type	
			CHANGE NOTE: ISO reference updated per DM 740.	
			ELEMENT CONDITION: Not used for break bulk cargo.	
			SOURCE: Identification Marking Code for Freight Containers (ISO 6346-1995) available from American National Standards Institute	
>>	<b>B411</b>	<b>310</b>	<b>Location Identifier</b>	<b>X AN 1/30</b>
			Code which identifies a specific location	
			[2-11] Location Identifier	
			This is free form text for the actual location of the event. Use the following format: City State/Province ISO country code. All three of these locations are required and should be separated by a space.	
>>	<b>B412</b>	<b>309</b>	<b>Location Qualifier</b>	<b>X ID 1/2</b>
			Code identifying type of location	
			[2-12] Location Qualifier	
			SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)	
		EA	Event Location	
			[2-12] Event Location	
<b>X</b>	<b>B413</b>	<b>761</b>	<b>Equipment Number Check Digit</b>	<b>O N0 1/1</b>
			Number which designates the check digit applied to a piece of equipment	

**Segment:** **N9 Reference Identification**  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 30  
**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier  
**Syntax Notes:**

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

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

**Comments:**  
**Notes:**

[3] N9 SEGMENT - Reference Identification

1. There may be no more than three N9 segments per 315 TS with a code value 'SN' qualifier. Only send seal numbers with container shipments.
2. An N9 will always appear for the booking number (N901 code value 'BN'), port call file number (N901 code value 'FI'), and voyage document number (N901 code value 'ZZ').
3. All other code values should be sent when available.
4. When reporting a shipment level event the equipment number(s), N901 will contain code value 'EQ'.
5. When reporting status on containers directly booked with the shipper, use code value 'P4' in the N901 and use value 'S' in the N902.
6. For MRM15 shipments, use code value 'P4' in the N901 and use value 'M' in the N902.
7. If the 315 transaction set is a MRM-15 shipment then the N9 segment must have a P4 in the N901 and 'M' in N902 along with the other required N9 segments.
8. For all break bulk shipments TCN is mandatory.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		[3-01] Reference Identification Qualifier	
		CHANGE NOTE: Borrowed code value '18' added per DM 790.	
		18 Plan Number	
			The unique identification number assigned for a defined contribution plan
			[3-01] Plan Number
			Use '18' to denote Transportation Tracking Number
		BL Government Bill of Lading	
			[3-01] Government Bill of Lading
		BM Bill of Lading Number	
			[3-01] Bill of Lading Number
		BN Booking Number	
			[3-01] Booking Number
		CT Contract Number	
			[3-01] Contract Number
		EQ Equipment Number	
			[3-01] Equipment Number
		FI File Identifier	
			[3-01] File Identifier
			Use 'FI' to denote Port Call File Number (PCFN)
		P4 Project Code	
			[3-01] Project Code

			PG	Use 'P4' to denote Status on Containers Directly Booked with Shipper Product Group [3-01] Product Group Use 'PG' to denote MILSTAMP Surface Commodity Code The DoD community expects the most up to date commodity code available from the carrier community and not just an echo of the commodity code from the 300 transaction set.	
			SN	Seal Number [3-01] Seal Number	
			TG	Transportation Control Number (TCN) [3-01] Transportation Control Number (TCN)	
			ZZ	Mutually Defined [3-01] Mutually Defined Use 'ZZ' to denote DoD Voyage Document Number	
>>	N902	127	<b>Reference Identification</b>	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [3-02] Reference Identification When reporting status on containers directly booked with the shipper (code value 'P4' in N901), enter value 'S'. For MRM15 shipments (code value 'P4' in N901), enter value 'M'.	X AN 1/30
X	N903	369	<b>Free-form Description</b>	Free-form descriptive text	X AN 1/45
X	N904	373	<b>Date</b>	Date expressed as CCYYMMDD	O DT 8/8
X	N905	337	<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 DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
X	N906	623	<b>Time Code</b>	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 Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N907	C040	<b>Reference Identifier</b>	To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b>	Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b>	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b>	Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b>	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b>	Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

X

C04006

127

**Reference Identification**

X AN 1/30

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

**Segment:** Q2 Status Details (Ocean)  
**Position:** 040  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit identifying information relative to identification of vessel, transportation dates, lading quantity, weight, and cube

**Syntax Notes:**  
 1 If any of Q207 Q208 or Q216 is present, then all are required.  
 2 If Q210 is present, then Q211 is required.  
 3 If either Q214 or Q215 is present, then the other is required.

**Semantic Notes:**  
 1 Q202 is the code identifying the country in which the ship (vessel) is registered.  
 2 Q203 is the required pier date.  
 3 Q204 is the date of departure of the vessel.  
 4 Q205 is the date the shipment was unloaded from the vessel.

**Comments:**

**Notes:** [4] Q2 SEGMENT - Vessel, Dates, Lading Quantity, Weight, and Cube  
 SEGMENT CONDITION: MANDATORY for all vessel (non-barge) shipments only.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
		597	<b>Vessel Code</b> Code identifying vessel [4-01] Vessel Code Identifying number for the carriers vessel, either the call sign or hull number. Send the Lloyd number or hull number only if the call sign is not available. ELEMENT CONDITION: MANDATORY for all vessel (non-barge) shipments only. SOURCE: Lloyd's Register of Shipping	O ID 1/8
X	Q202	26	<b>Country Code</b> Code identifying the country	O ID 2/3
X	Q203	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
>>	Q204	373	<b>Date</b> Date expressed as CCYYMMDD [4-04] Date Enter the vessel scheduled sail date or the current sail date.	O DT 8/8
X	Q205	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
>>	Q206	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity [4-06] Lading Quantity Enter the number of pieces per shipment.	O N0 1/7
>>	Q207	81	<b>Weight</b> Numeric value of weight [4-07] Weight Enter the net weight of the pieces per shipment. Use Net Explosive Weight for explosive material.	X R 1/10
>>	Q208	187	<b>Weight Qualifier</b> Code defining the type of weight [4-08] Weight Qualifier If there is a mixed shipment to include explosive cargo, then provide Net Explosive Weight. N Actual Net Weight [4-08] Actual Net Weight Z Mutually Defined	X ID 1/2

[4-08] Mutually Defined  
Use 'Z' to denote Net Explosive Weight

	<b>Q209</b>	<b>55</b>	<b>Flight/Voyage Number</b>	<b>O AN 2/10</b>
			Identifying designator for the particular flight or voyage on which the cargo travels	
			[4-09] Carrier Voyage Number Enter the carriers voyage number. CHANGE NOTE: Rename element per DM 827. ELEMENT CONDITION: MANDATORY for all B403 Status Codes except when reporting 'EE-Empty Equipment Dispatched'.	
>>	<b>Q210</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>O ID 2/3</b>
			Code qualifying the Reference Identification	
			[4-10] Reference Identification Qualifier	
			SCA Standard Carrier Alpha Code (SCAC)	
			[4-10] Standard Carrier Alpha Code (SCAC)	
>>	<b>Q211</b>	<b>127</b>	<b>Reference Identification</b>	<b>X AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			[4-11] Reference Identification Enter the SCAC in this field.	
	<b>Q212</b>	<b>897</b>	<b>Vessel Code Qualifier</b>	<b>O ID 1/1</b>
			Code specifying vessel code source	
			[4-12] Vessel Code Qualifier ELEMENT CONDITION: MANDATORY for all vessel (non-barge) shipments only.	
			C Ship's Radio Call Signal	
			[4-12] Ship's Radio Call Signal	
			L Lloyd's Register of Shipping	
			[4-12] Lloyd's Register of Shipping	
			Z Mutually Defined	
			[4-12] Mutually Defined Use 'Z' to denote Hull Number	
>>	<b>Q213</b>	<b>182</b>	<b>Vessel Name</b>	<b>O AN 2/28</b>
			Name of ship as documented in "Lloyd's Register of Ships"	
			[4-13] Vessel Name For barge enter name of barge. SOURCE: Lloyd's Register of Shipping	
	<b>Q214</b>	<b>183</b>	<b>Volume</b>	<b>X R 1/8</b>
			Value of volumetric measure	
			[4-14] Volume	
	<b>Q215</b>	<b>184</b>	<b>Volume Unit Qualifier</b>	<b>X ID 1/1</b>
			Code identifying the volume unit	
			[4-15] Volume Unit Qualifier	
			E Cubic Feet	
			[4-15] Cubic Feet	
			S Measurement Ton	
			[4-15] Measurement Ton	
>>	<b>Q216</b>	<b>188</b>	<b>Weight Unit Code</b>	<b>X ID 1/1</b>
			Code specifying the weight unit	
			[4-16] Weight Unit Code	
			E Metric Ton	
			[4-16] Metric Ton	
			L Pounds	
			[4-16] Pounds	

**Segment:** **R4** Port or Terminal  
**Position:** 060  
**Loop:** R4 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** Contractual or operational port or point relevant to the movement of the cargo  
**Syntax Notes:** 1 If either R402 or R403 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 R4 is required for each port to be identified.  
**Notes:** [5] R4 SEGMENT - Port Identification Each TS 315 should have at least four R4 loops. There should be an R4 loop for pickup of the cargo at the Consignor, Port Of Embarkation (POE), Port Of Discharge (POD), and Consignee. If there is a container transshipment, then there should be an R4 loop for the transshipment port. The R4 loop for the transshipment/relay port should also be present in the 315 message when Vessel Departure from prior port is reported in the B4 segment as well as when any event, e.g., Vessel Arrives, at transshipment or relay port is reported in the B4 segment.

#### Data Element Summary

Ref.	Data Element	Name	Attributes
M	R401	Port or Terminal Function Code	M ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment	
		[5-01] Port or Terminal Function Code	
		Ocean Carriers will provide the pickup status at which point they assume responsibility for the cargo.	
		CHANGE NOTE: Codes "5" and "D" added per DM 827.	
	1	Final Port of Discharge (Operational)	
		Last port at which cargo is unloaded from vessel	
		[5-01] Final Port of Discharge (Operational)	
	5	Activity Location (Operational)	
		Place at which the activity being reported is occurring	
		[5-01] Activity Location (Operational)	
	D	Port of Discharge (Operational)	
		Port at which cargo is unloaded from vessel	
		[5-01] Port of Discharge (Operational)	
	L	Port of Loading (Operational)	
		Port at which cargo is loaded on vessel	
		[5-01] Port of Loading (Operational)	
	M	Destination (Operational)	
		Place at which carrier actually turns cargo to consignee or his agent	
		[5-01] Destination (Operational)	
		Use 'M' to denote Place of Delivery for the Shipment where the Carrier Relinquishes Responsibility	
	O	Origin (Operational)	
		Shipper's facility at which shipment begins its movement at cargo's expense	
		[5-01] Origin (Operational)	
	R	Place of Receipt (Contractual)	
		Place at which cargo enters the care and custody of carrier	
		[5-01] Place of Receipt (Contractual)	
	T	Transshipment Port (Contractual)	
		Place at which cargo is transferred to another carrier	
		[5-01] Transshipment Port (Contractual)	

			Y	Relay Port (Operational) Port at which cargo is transferred from one vessel to another [5-01] Relay Port (Operational) Use 'Y' to denote Next Relay Port		
>>	R402	309	<b>Location Qualifier</b>		X	ID 1/2
				Code identifying type of location [5-02] Location Qualifier CHANGE NOTE: Delete code values 'CS', 'IP', and 'SL' per DM 827. SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)		
			CI	City [5-02] City		
			D	Census Schedule D [5-02] Census Schedule D		
			K	Census Schedule K [5-02] Census Schedule K		
>>	R403	310	<b>Location Identifier</b>		X	AN 1/30
				Code which identifies a specific location [5-03] Location Identifier		
>>	R404	114	<b>Port Name</b>		O	AN 2/24
				Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property [5-04] Port Name		
X	R405	26	<b>Country Code</b>		O	ID 2/3
				Code identifying the country		
	R406	174	<b>Terminal Name</b>		O	AN 2/30
				Free-form field for terminal name [5-06] Terminal Name For code value 'R' or 'O' in the R401, enter the DoDAAC for the actual cargo pickup location. For code value 'M' in the R401, enter the consignee DoDAAC.		
X	R407	113	<b>Pier Number</b>		O	AN 1/4
				Identifying number for the pier		
X	R408	156	<b>State or Province Code</b>		O	ID 2/2
				Code (Standard State/Province) as defined by appropriate government agency		

**Segment:** **DTM** **Date/Time Reference**  
**Position:** 070  
**Loop:** R4 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 15  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**  
**Notes:**

[6] DTM SEGMENT - Date/Time

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier	M ID 3/3

Code specifying type of date or time, or both date and time

[6-01] Date/Time Qualifier

The following relationship applies to the R4/DTM loop:

Date/time qualifier	Port function code	Type of date/time
139	L	Estimated departure
139	1	Estimated arrival
139	Y	Estimated departure
139	M	Estimated delivery
139	T	Estimated arrival of the booked ship
140	O	Actual operational pick-up at Consignor
140	R	Actual contractual pick-up at Consignor
140	L	Actual departure
140	M	Actual delivery
140	1	Actual arrival
140	Y	Actual departure
140	T	Actual arrival of the booked ship

CHANGE NOTE: 140/M/Actual delivery added per DM 82

139	Estimated
	[6-01] Estimated
140	Actual
	[6-01] Actual

>>	DTM02	373	Date	X	DT 8/8
----	-------	-----	------	---	--------

Date expressed as CCYYMMDD

[6-02] Date

	DTM03	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)

[6-03] Time

CHANGE NOTE: User note modified per DM 827.

ELEMENT CONDITION: When DTM01 contains code value '140' (actual time), you MUST enter actual local time.

X	DTM04	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  
Refer to 004010 Data Element Dictionary for acceptable code values.

<b>X</b>	<b>DTM05</b>	<b>1250</b>	<b>Date Time Period Format Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.		
<b>X</b>	<b>DTM06</b>	<b>1251</b>	<b>Date Time Period</b>	<b>X</b>	<b>AN 1/35</b>
			Expression of a date, a time, or range of dates, times or dates and times		

**Segment:** **SE** Transaction Set Trailer  
**Position:** 090  
**Loop:**  
**Level:** Heading  
**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:** [7] SE SEGMENT - Status Details (Ocean) Trailer

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
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	
		[7-01] Number of Included Segments	
		Total segments in this transaction set including the ST and SE 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	
		[7-02] 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. This IC element matrix applies to a specific application database, which is described in the Application Notes section below.

### 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. GRP = 0 means Data Group values have not been assigned.
- 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 “Route Order Number Qualifier.” This is more concise than using the generic X12 label of “Qualifier.” 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 ASC 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.
- X12 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 Status Details (Ocean) into the ASC X12 Transaction Set 315 Status Details (Ocean). Transportation activities involved in the DoD electronic data interchange effort developed these requirements.

This IC includes all changes approved by the DTEDI Committee and described in DTEDI data maintenance (DM) items up to the publication date of the IC.

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 - Status Details (Ocean) Header</b>	M		1	010	M	1						
1-01		Transaction Set Identifier Code 315 - Status Details (Ocean)	M	ID	3/3	1	010	M	1			ST01	143	M ID 3/3
1-02		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. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner. )	M	AN	4/9	1	010	M	1			ST02	329	M AN 4/9
2		<b>B4 SEGMENT - Identifying Numbers and Dates</b>  For reporting the status of a single container B407, B408, and B409 are required. Use codes 'U' and 'L' in B403 to report the unloading of cargo from a defective container and loading into a new container. The container TCN will remain the same. Begin reporting the new container number with the 'L' event.	M			1	020	M	1					See X12 Standards for explanation of syntax notes. P0708P1112
2-03		Shipment Status Code  CHANGE NOTE: Restore migration code value 'EC', which was dropped inadvertently, per DM 862. CHANGE NOTE: Four new codes with their X12 definitions were added to the Shipment Status Code table in Section 6 per DM 1011.  See Section 6 for list of data values.	M	ID	1/2	1	020	M	1			B403	157	O ID 1/2
2-04		Date  Enter in the actual date the event took place.	M	DT	8/8	1	020	M	1			B404	373	O DT 8/8
2-05		Status Time  Enter the local time that the event actually happened.	M	TM	4/4	1	020	M	1			B405	161	O TM 4/4
2-07		Equipment Initial  For ISO containers, enter the four equipment initials (usually the four alphabetic characters at the beginning of the container number) from the container. For non-ISO containers, Enter one to four characters to identify the owner of the container. Leave blank for break bulk shipments or break bulk items placed in a container or flat rack for the carrier's convenience. CHANGE NOTE: User note changed per DM 789.  SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	C	AN	1/4	1	020	M	1			B407	206	C AN 1/4

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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		
2-08		Equipment Number For ISO containers, enter the six character container serial number and (without a space) the one character check digit (both are mandatory for cargo containerized in ISO containers). For non-ISO containers, enter one to ten characters to identify the container. Leave blank for break bulk shipments or break bulk items placed in a container or flat rack for the carrier's convenience. CHANGE NOTE: User note changed per DM 789.	C	AN	1/10	1	020	M	1			B408	207	C	AN	1/10
2-09		Equipment Status Code ELEMENT CONDITION: Not used for break bulk cargo.  E - Empty  L - Load	C	ID	1/1	1	020	M	1			B409	578	O	ID	1/2
2-10		Equipment Type CHANGE NOTE: ISO reference updated per DM 740.  ELEMENT CONDITION: Not used for break bulk cargo.  SOURCE: Identification Marking Code for Freight Containers (ISO 6346-1995) available from American National Standards Institute	C	ID	4/4	1	020	M	1			B410	24	O	ID	4/4
2-11		Location Identifier This is free form text for the actual location of the event. Use the following format: City State/Province ISO country code. All three of these locations are required and should be separated by a space.	M	AN	1/30	1	020	M	1			B411	310	C	AN	1/30
2-12		Location Qualifier SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)  EA - Event Location	M	ID	2/2	1	020	M	1			B412	309	C	ID	1/2
3		<b>N9 SEGMENT - Reference Identification</b> 1. There may be no more than three N9 segments per 315 TS with a code value 'SN' qualifier. Only send seal numbers with container shipments. 2. An N9 will always appear for the booking number (N901 code value 'BN'), port call file number (N901 code value 'FI'), and voyage document number (N901 code value 'ZZ'). 3. All other code values should be sent when available. 4. When reporting a shipment level event the equipment number(s), N901 will contain code value 'EQ'. 5. When reporting status on containers directly booked with the shipper, use code value 'P4' in the N901 and use value 'S' in the N902. 6. For MRM15 shipments, use code value 'P4' in the N901 and use value 'M' in the N902. 7. If the 315 transaction set is a MRM-15 shipment then the N9 segment must have a P4 in the N901 and 'M' in N902 along with the other required N9 segments. 8. For all break bulk shipments TCN is mandatory.	C			1	030	O	30							See X12 Standards for explanation of syntax notes. R0203C0605

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			
3-01		Reference Identification Qualifier CHANGE NOTE: Borrowed code value '18' added per DM 790.  18 - Plan Number  <i>Use '18' to denote Transportation Tracking Number.</i>  BL - Government Bill of Lading  BM - Bill of Lading Number  BN - Booking Number  CT - Contract Number  EQ - Equipment Number  FI - File Identifier  <i>Use 'FI' to denote Port Call File Number (PCFN).</i>  P4 - Project Code  <i>Use 'P4' to denote Status on Containers Directly Booked with Shipper.</i>  PG - Product Group  <i>Use 'PG' to denote MILSTAMP Surface Commodity Code The DoD community expects the most up to date commodity code available from the carrier community and not just an echo of the commodity code from the 300 transaction set..</i>  SN - Seal Number  TG - Transportation Control Number (TCN)  ZZ - Mutually Defined  <i>Use 'ZZ' to denote DoD Voyage Document Number.</i>	M	ID	2/2	1	030	O	30				N901	128	M	ID	2/3
3-02		Reference Identification  When reporting status on containers directly booked with the shipper (code value 'P4' in N901), enter value 'S'. For MRM15 shipments (code value 'P4' in N901), enter value 'M'.	M	AN	1/30	1	030	O	30			N902	127	C	AN	1/30	
4		<b>Q2 SEGMENT - Vessel, Dates, Lading Quantity, Weight, and Cube</b>  SEGMENT CONDITION: MANDATORY for all vessel (non-barge) shipments only.	C			1	040	O	1								
																	See X12 Standards for explanation of syntax notes. P070816C1011P1415
4-01		Vessel Code  Identifying number for the carriers vessel, either the call sign or hull number. Send the Lloyd number or hull number only if the call sign is not available.  ELEMENT CONDITION: MANDATORY for all vessel (non-barge) shipments only.  SOURCE: Lloyd's Register of Shipping	C	ID	1/8	1	040	O	1			Q201	597	O	ID	1/8	

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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	
4-04		Date Enter the vessel scheduled sail date or the current sail date.	M	DT	8/8	1	040	O	1			Q204	373	O	DT 8/8
4-06		Lading Quantity Enter the number of pieces per shipment.	M	N0	1/7	1	040	O	1			Q206	80	O	N0 1/7
4-07		Weight Enter the net weight of the pieces per shipment. Use Net Explosive Weight for explosive material.	M	R	1/10	1	040	O	1			Q207	81	C	R 1/10
4-08		Weight Qualifier If there is a mixed shipment to include explosive cargo, then provide Net Explosive Weight.  N - Actual Net Weight  Z - Mutually Defined  <i>Use 'Z' to denote Net Explosive Weight.</i>	M	ID	1/1	1	040	O	1			Q208	187	C	ID 1/2
4-09		Carrier Voyage Number Enter the carriers voyage number. CHANGE NOTE: Rename element per DM 827.  ELEMENT CONDITION: MANDATORY for all B403 Status Codes except when reporting 'EE-Empty Equipment Dispatched'.	C	AN	2/10	1	040	O	1			Q209	55	O	AN 2/10
4-10		Reference Identification Qualifier SCA - Standard Carrier Alpha Code (SCAC)	M	ID	3/3	1	040	O	1			Q210	128	O	ID 2/3
4-11		Reference Identification Enter the SCAC in this field.	M	AN	2/4	1	040	O	1			Q211	127	C	AN 1/30
4-12		Vessel Code Qualifier ELEMENT CONDITION: MANDATORY for all vessel (non-barge) shipments only.  C - Ship's Radio Call Signal  L - Lloyd's Register of Shipping  Z - Mutually Defined  <i>Use 'Z' to denote Hull Number.</i>	C	ID	1/1	1	040	O	1			Q212	897	O	ID 1/1

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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	
4-13		Vessel Name For barge enter name of barge.  SOURCE: Lloyd's Register of Shipping	M	AN	2/28	1	040	O	1			Q213	182	O	AN 2/28
4-14		Volume	C	R	1/8	1	040	O	1			Q214	183	C	R 1/8
4-15		Volume Unit Qualifier E - Cubic Feet  S - Measurement Ton	C	ID	1/1	1	040	O	1			Q215	184	C	ID 1/1
4-16		Weight Unit Code E - Metric Ton  L - Pounds	M	ID	1/1	1	040	O	1			Q216	188	C	ID 1/1
5		<b>R4 SEGMENT - Port Identification</b>  Each TS 315 should have at least four R4 loops. There should be an R4 loop for pickup of the cargo at the Consignor, Port Of Embarkation (POE), Port Of Discharge (POD), and Consignee. If there is a container transshipment, then there should be an R4 loop for the transshipment port. The R4 loop for the transshipment/relay port should also be present in the 315 message when Vessel Departure from prior port is reported in the B4 segment as well as when any event, e.g., Vessel Arrives, at transshipment or relay port is reported in the B4 segment.	M			1	060	M	1	20	1	R4			See X12 Standards for explanation of syntax notes. P0203

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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			
5-01		Port or Terminal Function Code Ocean Carriers will provide the pickup status at which point they assume responsibility for the cargo. CHANGE NOTE: Codes "5" and "D" added per DM 827.  1 - Final Port of Discharge (Operational)  5 - Activity Location (Operational)  D - Port of Discharge (Operational)  L - Port of Loading (Operational)  M - Destination (Operational)  <i>Use 'M' to denote Place of Delivery for the Shipment where the Carrier Relinquishes Responsibility.</i>  O - Origin (Operational)  R - Place of Receipt (Contractual)  T - Transshipment Port (Contractual)  Y - Relay Port (Operational)  <i>Use 'Y' to denote Next Relay Port.</i>	M	ID	1/1	1	060	M	1	20	1	R4	R401	115	M	ID	1/1
5-02		Location Qualifier CHANGE NOTE: Delete code values 'CS', 'IP', and 'SL' per DM 827.  SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)  CI - City  D - Census Schedule D  K - Census Schedule K	M	ID	1/2	1	060	M	1	20	1	R4	R402	309	C	ID	1/2
5-03		Location Identifier	M	AN	1/30	1	060	M	1	20	1	R4	R403	310	C	AN	1/30
5-04		Port Name	M	AN	2/24	1	060	M	1	20	1	R4	R404	114	O	AN	2/24
5-06		Terminal Name For code value 'R' or 'O' in the R401, enter the DoDAAC for the actual cargo pickup location. For code value 'M' in the R401, enter the consignee DoDAAC.	C	AN	6/6	1	060	M	1	20	1	R4	R406	174	O	AN	2/30
6		<b>DTM SEGMENT - Date/Time</b>	C			1	070	O	15	20	1	R4					
See X12 Standards for explanation of syntax notes. R020305C0403P0506																	

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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			
6-01		Date/Time Qualifier The following relationship applies to the R4/DTM loop:  Date/time qualifier Port function code Type of date/time ----- 139 L Estimated departure 139 1 Estimated arrival 139 Y Estimated departure 139 M Estimated delivery 139 T Estimated arrival of the booked ship 140 O Actual operational pick-up at Consignor 140 R Actual contractual pick-up at Consignor 140 L Actual departure 140 M Actual delivery 140 1 Actual arrival 140 Y Actual departure 140 T Actual arrival of the booked ship  CHANGE NOTE: 140/M/Actual delivery added per DM 82  139 - Estimated  140 - Actual	M	ID	3/3	1	070	O	15	20	1	R4	DTM01	374	M	ID	3/3
6-02		Date	M	DT	8/8	1	070	O	15	20	1	R4	DTM02	373	C	DT	8/8
6-03		Time CHANGE NOTE: User note modified per DM 827.  ELEMENT CONDITION: When DTM01 contains code value '140' (actual time), you MUST enter actual local time.	C	TM	4/8	1	070	O	15	20	1	R4	DTM03	337	C	TM	4/8
7		<b>SE SEGMENT - Status Details (Ocean) Trailer</b>	M			1	090	M	1								
7-01		Number of Included Segments Total segments in this transaction set including the ST and SE segments	M	N0	1/10	1	090	M	1			SE01	96	M	N0	1/10	
7-02		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	1	090	M	1			SE02	329	M	AN	4/9	

## Section 6.0

### APPLICATION CODE LISTS

## 2-03 -- Shipment Status Code

Data Value - Definition
AE - Loaded on Vessel
AL - Loaded on Rail
AM - Loaded on Truck
AO - Loaded on Barge
AV - Available for Delivery
** Use 'AV' to denote Shipment is Ready for Consignee at Place of Delivery.
BD - Recommitted Delivery Date
** Use 'BD' to denote End of authorized shipment delay.
CO - Cargo Received at Contractual Place of Receipt
CR - Carrier Release
** Use 'CR' to denote Carrier's Release Date.
CT - Customs Released
** Use 'CT' to denote Customs Release Date.
EC - [Migration Code] Empty Container
EE - Empty Equipment Dispatched
** Use 'EE' to denote Container Sent by Carrier to Sourcing Location for Stuffing.
FT - Free Time Expired
HG - Held on Ground
** Use 'HG' to denote Entry into U.S. Government-directed staging.
HR - Hold Released
** Use 'HR' to denote Release from U.S. Government-directed staging.
I - In-Gate
** Use 'I' to denote Cargo is In-Gate at Carrier's Terminal.
L - Loading
** Use 'L' to denote Loading Cargo into New Container after Unloading it from Defective Container.
NF - Free Time to Expire
OA - Out-Gate
** Use 'OA' to denote Shipment Commencement to Consignee.
P - Departed Terminal Location
** Use 'P' to denote Shipment Stop-offs from Origin Location to Terminal.
RD - Return Container
** Use 'RD' to denote Return of empty container to contractor.
CHANGE NOTE: Definition modified per DM 1039..
SD - Shipment Delayed
** Use 'SD' to denote Authorized shipment delay.
U - Unloading
** Use 'U' to denote Unloading Cargo from Defective Container (e.g., a bad reefer container).
UV - Unloaded From Vessel
VA - Vessel Arrival
VD - Vessel Departure
W - Released by Customer
** Use 'W' to denote Carrier Takes Possession of the Shipment/Shipment Pickup at Sourcing Point.
X1 - Arrived at Delivery Location
** Use 'X1' to denote Arrived at Delivery Location (either Cargo Booked to Port at time of Acceptance by Customer or Cargo Booked to Door at Time of Delivery 'In Theater' to Customer).
X6 - En Route to Delivery Location
** Use 'X6' to denote Cargo Transferred to/for Rail Movement.