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# **SAP Schema Documentation**

SAP Business Network Freight Collaboration

Message Implementation Guide | Public

ANSI\_X12\_300

Message Type: 300

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## 1 OVERVIEW HEADER

### General Information

<b>Name</b>	ANSI X12 Interchange headers and trailers
<b>Direction</b>	Out
<b>Status</b>	Active
<b>Message Type</b>	Interchange Structure
<b>External Category</b>	Message

### Documentation

**Definition** The Interchange Envelope, often referred to as the “outer envelope,” is the wrapper for all the data to be sent in one transmission. It can contain multiple Functional Groups. This characteristic means that transactions of different types can be included in the Interchange Envelope, with each type of transaction stored in a separate Functional Group. The Interchange Envelope is defined by the header and trailer; the Interchange Control Header (designated ISA) appears at the beginning, and the Interchange Control Trailer (designated IEA) appears at the end. While the typical pattern from Enterprise Systems is to create one Functional Group (GS/GE) within an Interchange Group (ISA/IEA), the X12 enveloping supports one or more Functional Groups (GS/GE) within an Interchange Group (ISA/IEA).

## 1.1 Structure

The following table shows the complete structure.

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>Interchange</b> — Interchange Structure	1 .. 1				
<b>S_ISA</b> — Interchange Control Header	1 .. 1				
<b>D_I01</b> — Authorization Information Qualifier	1 .. 1	String		2 .. 2	D_I01
<b>D_I02</b> — Authorization Information	1 .. 1	String		10 .. 10	
<b>D_I03</b> — Security Information Qualifier	1 .. 1	String		2 .. 2	D_I03
<b>D_I04</b> — Security Information	1 .. 1	String		10 .. 10	
<b>D_I05_1</b> — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
<b>D_I06</b> — Interchange Sender ID	1 .. 1	String		15 .. 15	
<b>D_I05_2</b> — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
<b>D_I07</b> — Interchange Receiver ID	1 .. 1	String		15 .. 15	
<b>D_I08</b> — Interchange Date	1 .. 1	String		6 .. 6	
<b>D_I09</b> — Interchange Time	1 .. 1	String		4 .. 4	
<b>D_I10</b> — Interchange Control Standards Identifier	1 .. 1	String		1 .. 1	
<b>D_I11</b> — Interchange Control Version Number	1 .. 1	String		5 .. 5	D_I11
<b>D_I12</b> — Interchange Control Number	1 .. 1	String		9 .. 9	
<b>D_I13</b> — Acknowledgment Requested	1 .. 1	String		1 .. 1	D_I13
<b>D_I14</b> — Interchange Usage Indicator	1 .. 1	String		1 .. 1	D_I14
<b>D_I15</b> — Component Element Separator	1 .. 1	String		1 .. 1	
<b>FunctionalGroup</b> — Functional Group	1 .. 1				
<b>S_GS</b> — Functional Group Header	1 .. 1				
<b>D_479</b> — Functional Identifier Code	1 .. 1	String		2 .. 2	D_479
<b>D_142</b> — Application Sender's Code	1 .. 1	String		2 .. 15	
<b>D_124</b> — Application Receiver's Code	1 .. 1	String		2 .. 15	
<b>D_373</b> — Date	1 .. 1	String		8 .. 8	
<b>D_337</b> — Time	1 .. 1	String		6 .. 6	
<b>D_28</b> — Group Control Number	1 .. 1	String		9 .. 9	
<b>D_455</b> — Responsible Agency Code	1 .. 1	String		1 .. 1	D_455
<b>D_480</b> — Version / Release / Industry Identifier	1 .. 1	String		6 .. 6	D_480
Code					
<b>S_GE</b> — Functional Group Trailer	1 .. 1				
<b>D_97</b> — Number of Transaction Sets Included	1 .. 1	String		1 .. 1	
<b>D_28</b> — Group Control Number	1 .. 1	String		9 .. 9	
<b>S_IEA</b> — Interchange Control Trailer	1 .. 1				
<b>D_I16</b> — Number of Included Functional Groups	1 .. 1	String		1 .. 1	
<b>D_I12</b> — Interchange Control Number	1 .. 1	String		9 .. 9	

## 2 DETAILS HEADER

### 2.1 Interchange — Interchange Structure

#### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>Interchange</b> — Interchange Structure	1 .. 1				
├ <b>S_ISA</b> — Interchange Control Header	1 .. 1				
├ <b>FunctionalGroup</b> — Functional Group	1 .. 1				
└ <b>S_IEA</b> — Interchange Control Trailer	1 .. 1				

#### Documentation

**Definition** The Interchange Envelope, often referred to as the “outer envelope,” is the wrapper for all the data to be sent in one transmission. It can contain multiple Functional Groups. This characteristic means that transactions of different types can be included in the Interchange Envelope, with each type of transaction stored in a separate Functional Group. The Interchange Envelope is defined by the header and trailer; the Interchange Control Header (designated ISA) appears at the beginning, and the Interchange Control Trailer (designated IEA) appears at the end. While the typical pattern from Enterprise Systems is to create one Functional Group (GS/GE) within an Interchange Group (ISA/IEA), the X12 enveloping supports one or more Functional Groups (GS/GE) within an Interchange Group (ISA/IEA).

#### Properties

**Identifier** Interchange  
**Name** Interchange Structure  
**Cardinality** min: 1                      max: 1

## 2.2 S\_ISA — Interchange Control Header

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>Interchange</b> — Interchange Structure	1 .. 1				
<b>S_ISA</b> — Interchange Control Header	1 .. 1				
<b>D_I01</b> — Authorization Information Qualifier	1 .. 1	String		2 .. 2	D_I01
<b>D_I02</b> — Authorization Information	1 .. 1	String		10 .. 10	
<b>D_I03</b> — Security Information Qualifier	1 .. 1	String		2 .. 2	D_I03
<b>D_I04</b> — Security Information	1 .. 1	String		10 .. 10	
<b>D_I05_1</b> — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
<b>D_I06</b> — Interchange Sender ID	1 .. 1	String		15 .. 15	
<b>D_I05_2</b> — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
<b>D_I07</b> — Interchange Receiver ID	1 .. 1	String		15 .. 15	
<b>D_I08</b> — Interchange Date	1 .. 1	String		6 .. 6	
<b>D_I09</b> — Interchange Time	1 .. 1	String		4 .. 4	
<b>D_I10</b> — Interchange Control Standards Identifier	1 .. 1	String		1 .. 1	
<b>D_I11</b> — Interchange Control Version Number	1 .. 1	String		5 .. 5	D_I11
<b>D_I12</b> — Interchange Control Number	1 .. 1	String		9 .. 9	
<b>D_I13</b> — Acknowledgment Requested	1 .. 1	String		1 .. 1	D_I13
<b>D_I14</b> — Interchange Usage Indicator	1 .. 1	String		1 .. 1	D_I14
<b>D_I15</b> — Component Element Separator	1 .. 1	String		1 .. 1	

### Documentation

**Definition** To start and identify an interchange of zero or more functional groups and interchange-related control segments

### Properties

**Identifier** S\_ISA  
**Name** Interchange Control Header  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Element

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>D_I01</b> Authorization Information Qualifier	Code identifying the type of information in the Authorization Information  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 2 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_I01 <b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1
<b>D_I02</b> Authorization Information	Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 10 max: 10 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I03</b> Security Information Qualifier	Code identifying the type of information in the Security Information  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 2 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_I03

		<b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1
<b>D_I04</b> Security Information	This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 10 max: 10 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I05_1</b> Interchange ID Qualifier	Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 2 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_I05 <b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1
<b>D_I06</b> Interchange Sender ID	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  <b>Usage 1</b> This field contains the sender LBN ID. <b>Constraint 1</b> For EDI 997 message type the LBN ID is always "LBN" as the message will be generated by the network.	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 15 max: 15 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I05_2</b> Interchange ID Qualifier	Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 2 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_I05 <b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1
<b>D_I07</b> Interchange Receiver ID	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  <b>Usage 1</b> This field contains the receiver LBN ID.	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 15 max: 15 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I08</b> Interchange Date	Date of the interchange	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 6 max: 6 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I09</b> Interchange Time	Time of the interchange	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 4 max: 4 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I10</b> Interchange Control Standards Identifier	Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 1 <b>External Category</b> Element <b>Data Type</b> xsd:string

<b>D_I11</b> Interchange Control Version Number	Code specifying the version number of the interchange control segments  <b>Selected Values</b> All Values in Codelist	<table border="0"> <tr> <td><b>Cardinality</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>Primitive Type</b></td> <td>String</td> </tr> <tr> <td><b>Length</b></td> <td>min: 5 max: 5</td> </tr> <tr> <td><b>External Category</b></td> <td>Element</td> </tr> <tr> <td><b>Data Type</b></td> <td>xsd:string</td> </tr> </table> <hr/> <table border="0"> <tr> <td><b>Codelist Id</b></td> <td>D_I11</td> </tr> <tr> <td><b>Type System</b></td> <td>Customer_TS</td> </tr> <tr> <td><b>Version Mode</b></td> <td>Local</td> </tr> <tr> <td><b>Version</b></td> <td>1.1</td> </tr> </table>	<b>Cardinality</b>	min: 1 max: 1	<b>Primitive Type</b>	String	<b>Length</b>	min: 5 max: 5	<b>External Category</b>	Element	<b>Data Type</b>	xsd:string	<b>Codelist Id</b>	D_I11	<b>Type System</b>	Customer_TS	<b>Version Mode</b>	Local	<b>Version</b>	1.1
<b>Cardinality</b>	min: 1 max: 1																			
<b>Primitive Type</b>	String																			
<b>Length</b>	min: 5 max: 5																			
<b>External Category</b>	Element																			
<b>Data Type</b>	xsd:string																			
<b>Codelist Id</b>	D_I11																			
<b>Type System</b>	Customer_TS																			
<b>Version Mode</b>	Local																			
<b>Version</b>	1.1																			
<b>D_I12</b> Interchange Control Number	A control number assigned by the interchange sender	<table border="0"> <tr> <td><b>Cardinality</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>Primitive Type</b></td> <td>String</td> </tr> <tr> <td><b>Length</b></td> <td>min: 9 max: 9</td> </tr> <tr> <td><b>External Category</b></td> <td>Element</td> </tr> <tr> <td><b>Data Type</b></td> <td>xsd:string</td> </tr> </table>	<b>Cardinality</b>	min: 1 max: 1	<b>Primitive Type</b>	String	<b>Length</b>	min: 9 max: 9	<b>External Category</b>	Element	<b>Data Type</b>	xsd:string								
<b>Cardinality</b>	min: 1 max: 1																			
<b>Primitive Type</b>	String																			
<b>Length</b>	min: 9 max: 9																			
<b>External Category</b>	Element																			
<b>Data Type</b>	xsd:string																			
<b>D_I13</b> Acknowledgment Requested	Code indicating sender's request for an interchange acknowledgement  <b>Selected Values</b> All Values in Codelist	<table border="0"> <tr> <td><b>Cardinality</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>Primitive Type</b></td> <td>String</td> </tr> <tr> <td><b>Length</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>External Category</b></td> <td>Element</td> </tr> <tr> <td><b>Data Type</b></td> <td>xsd:string</td> </tr> </table> <hr/> <table border="0"> <tr> <td><b>Codelist Id</b></td> <td>D_I13</td> </tr> <tr> <td><b>Type System</b></td> <td>Customer_TS</td> </tr> <tr> <td><b>Version Mode</b></td> <td>Local</td> </tr> <tr> <td><b>Version</b></td> <td>1.1</td> </tr> </table>	<b>Cardinality</b>	min: 1 max: 1	<b>Primitive Type</b>	String	<b>Length</b>	min: 1 max: 1	<b>External Category</b>	Element	<b>Data Type</b>	xsd:string	<b>Codelist Id</b>	D_I13	<b>Type System</b>	Customer_TS	<b>Version Mode</b>	Local	<b>Version</b>	1.1
<b>Cardinality</b>	min: 1 max: 1																			
<b>Primitive Type</b>	String																			
<b>Length</b>	min: 1 max: 1																			
<b>External Category</b>	Element																			
<b>Data Type</b>	xsd:string																			
<b>Codelist Id</b>	D_I13																			
<b>Type System</b>	Customer_TS																			
<b>Version Mode</b>	Local																			
<b>Version</b>	1.1																			
<b>D_I14</b> Interchange Usage Indicator	Code indicating whether data enclosed by this interchange envelope is test, production or information  <b>Selected Values</b> All Values in Codelist	<table border="0"> <tr> <td><b>Cardinality</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>Primitive Type</b></td> <td>String</td> </tr> <tr> <td><b>Length</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>External Category</b></td> <td>Element</td> </tr> <tr> <td><b>Data Type</b></td> <td>xsd:string</td> </tr> </table> <hr/> <table border="0"> <tr> <td><b>Codelist Id</b></td> <td>D_I14</td> </tr> <tr> <td><b>Type System</b></td> <td>Customer_TS</td> </tr> <tr> <td><b>Version Mode</b></td> <td>Local</td> </tr> <tr> <td><b>Version</b></td> <td>1.1</td> </tr> </table>	<b>Cardinality</b>	min: 1 max: 1	<b>Primitive Type</b>	String	<b>Length</b>	min: 1 max: 1	<b>External Category</b>	Element	<b>Data Type</b>	xsd:string	<b>Codelist Id</b>	D_I14	<b>Type System</b>	Customer_TS	<b>Version Mode</b>	Local	<b>Version</b>	1.1
<b>Cardinality</b>	min: 1 max: 1																			
<b>Primitive Type</b>	String																			
<b>Length</b>	min: 1 max: 1																			
<b>External Category</b>	Element																			
<b>Data Type</b>	xsd:string																			
<b>Codelist Id</b>	D_I14																			
<b>Type System</b>	Customer_TS																			
<b>Version Mode</b>	Local																			
<b>Version</b>	1.1																			
<b>D_I15</b> Component Element Separator	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	<table border="0"> <tr> <td><b>Cardinality</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>Primitive Type</b></td> <td>String</td> </tr> <tr> <td><b>Length</b></td> <td>min: 1 max: 1</td> </tr> <tr> <td><b>External Category</b></td> <td>Element</td> </tr> <tr> <td><b>Data Type</b></td> <td>xsd:string</td> </tr> </table>	<b>Cardinality</b>	min: 1 max: 1	<b>Primitive Type</b>	String	<b>Length</b>	min: 1 max: 1	<b>External Category</b>	Element	<b>Data Type</b>	xsd:string								
<b>Cardinality</b>	min: 1 max: 1																			
<b>Primitive Type</b>	String																			
<b>Length</b>	min: 1 max: 1																			
<b>External Category</b>	Element																			
<b>Data Type</b>	xsd:string																			



## 2.3 FunctionalGroup — Functional Group

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>Interchange</b> — Interchange Structure	1 .. 1				
<b>FunctionalGroup</b> — Functional Group	1 .. 1				
<b>S_GS</b> — Functional Group Header	1 .. 1				
<b>S_GE</b> — Functional Group Trailer	1 .. 1				

### Documentation

**Definition** Functional Groups, often referred to as the “inner envelope,” are made up of one or more Transaction Sets. One Functional Group Envelope must include transaction of all of the same type, which can be batched together into one transmission. The Functional Group is defined by the header and trailer segments.

### Properties

**Identifier** FunctionalGroup

**Name** Functional Group

**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Element

## 2.4 S\_GS — Functional Group Header

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>Interchange</b> — Interchange Structure	1 .. 1				
<b>FunctionalGroup</b> — Functional Group	1 .. 1				
<b>S_GS</b> — Functional Group Header	1 .. 1				
<b>D_479</b> — Functional Identifier Code	1 .. 1	String		2 .. 2	D_479
<b>D_142</b> — Application Sender's Code	1 .. 1	String		2 .. 15	
<b>D_124</b> — Application Receiver's Code	1 .. 1	String		2 .. 15	
<b>D_373</b> — Date	1 .. 1	String		8 .. 8	
<b>D_337</b> — Time	1 .. 1	String		6 .. 6	
<b>D_28</b> — Group Control Number	1 .. 1	String		9 .. 9	
<b>D_455</b> — Responsible Agency Code	1 .. 1	String		1 .. 1	D_455
<b>D_480</b> — Version / Release / Industry Identifier	1 .. 1	String		6 .. 6	D_480
Code					

### Documentation

**Definition** To indicate the beginning of a functional group and to provide control information Comments 1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer. Semantic Notes: 1. GS04 is the group date. 2. GS05 is the group time. 3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

### Properties

**Identifier** S\_GS  
**Name** Functional Group Header  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Element

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>D_479</b> Functional Identifier Code	Code identifying a group of application related transaction sets  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 2 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_479 <b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1
<b>D_142</b> Application Sender's Code	Code identifying party sending transmission; codes agreed to by trading partners	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 15 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_124</b> Application Receiver's Code	Code identifying party receiving transmission; codes agreed to by trading partners	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 15 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_373</b> Date	Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 8 max: 8 <b>External Category</b> Element

		<b>Data Type</b> xsd:string
<b>D_337</b> Time	Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 6 max: 6 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_28</b> Group Control Number	Assigned number originated and maintained by the sender	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 9 max: 9 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_455</b> Responsible Agency Code	Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 1 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_455 <b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1
<b>D_480</b> Version / Release / Industry Identifier Code	Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 6 max: 6 <b>External Category</b> Element <b>Data Type</b> xsd:string <hr/> <b>Codelist Id</b> D_480 <b>Type System</b> Customer_TS <b>Version Mode</b> Local <b>Version</b> 1.1

## 2.5 S\_GE — Functional Group Trailer

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>Interchange</b> — Interchange Structure	1 .. 1				
<b>FunctionalGroup</b> — Functional Group	1 .. 1				
<b>S_GE</b> — Functional Group Trailer	1 .. 1				
<b>D_97</b> — Number of Transaction Sets Included	1 .. 1	String		1 .. 1	
<b>D_28</b> — Group Control Number	1 .. 1	String		9 .. 9	

### Documentation

**Definition** To indicate the end of a functional group and to provide control information Comments 1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header. Semantic Notes: 1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

### Properties

**Identifier** S\_GE  
**Name** Functional Group Trailer  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Element

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>D_97</b> Number of Transaction Sets Included	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 1 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_28</b> Group Control Number	Assigned number originated and maintained by the sender	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 9 max: 9 <b>External Category</b> Element <b>Data Type</b> xsd:string

## 2.6 S\_IEA — Interchange Control Trailer

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
Interchange — Interchange Structure	1 .. 1				
└ S_IEA — Interchange Control Trailer	1 .. 1				
└┘ D_I16 — Number of Included Functional Groups	1 .. 1	String		1 .. 1	
└┘ D_I12 — Interchange Control Number	1 .. 1	String		9 .. 9	

### Documentation

**Definition** To define the end of an interchange of zero or more functional groups and interchange-related control segments

### Properties

**Identifier** S\_IEA  
**Name** Interchange Control Trailer  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Element

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>D_I16</b> Number of Included Functional Groups	A count of the number of functional groups included in an interchange	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 1 <b>External Category</b> Element <b>Data Type</b> xsd:string
<b>D_I12</b> Interchange Control Number	A control number assigned by the interchange sender	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 9 max: 9 <b>External Category</b> Element <b>Data Type</b> xsd:string

### 3 OVERVIEW MESSAGE

#### General Information

Name	SAP_LBN_ANSI_X12_300
Direction	Out
Status	Active
Message Type	Reservation (Booking Request) (Ocean)
Type System	ASC_X12
Version	004010
External Category	Transaction Set

#### Documentation

Definition	This Draft Standard for Trial Use contains the format and establishes the data contents of the Reservation (Booking Request) (Ocean) Transaction Set (300) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a shipper or a forwarder to reserve space, containers and equipment for transport by ocean vessel.
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#### Notes

Usage 1	<pre> ISA*00*          *00*          *ZZ*10000034      *ZZ*10010003085 *230322*1330*U*00401*000000453*0*P*&gt;~ GS*SM*10000034*10010003085*20230322*133005*000000453*X*004010~ ST*300*0001~ B1**BookingID**U~ Y1***S***DD~ Y2*1***20G0~ N9*06*QW9_170~ N9*TN*BookingID~ N9*EV*InternalID~ N1*OB*10000034**LBNE2EPO1~ N3*ABCStreet 1~ N4*DEFCity**68723*DE~ G61*FQ*Test Purchase Org. 1*TE*+49 06578 1234~ R4*L*OR*1*LBN-SD-BLR*IN~ DTM*369*20230309*2030*UT~ R4*E*DE*2*LBN-SD-MUM*IN~ DTM*371*20230221*1830*UT~ R4*A*KL*3*LBN-SD-MUM*IN~ R4*D*PD*4*LBN-SD-BLR*IN~ DTM*371*20230221*1830*UT~ R4*A*KL*5*LBN-SD-BLR*IN~ DTM*369*20230313*1830*UT~ R4*D*PD*6*LBN-SD-DL*IN~ DTM*371*20230315*1830*UT~ LX*2~ N7**1000010*****S*****20G0~ W09*CN*-1*CE*5*CE~ L0*2*****1~ H1*1095*4**DGItemid: 20; Text 1111~ H1*1090*3**DGItemid: 10; Text 2222~ V1***VESSEL_INFO*****S~ SE*29*0001~ GE*1*000000453~ IEA*1*000000453~ </pre>
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### 3.1 Structure

The following table shows only the root element and the group elements.

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>ST</b> — Transaction Set Header - Reservation (Booking Request) (Ocean)	1 .. 1		010		
<b>B1</b> — Beginning Segment for Booking or Pick-up/Delivery	1 .. 1		020		
<b>Y1</b> — Space Reservation Request	1 .. 1		050		
<b>Y2</b> — Loop Y2	0 .. 10		060		
<b>Y2</b> — Container Details	1 .. 1		060		
<b>N9</b> — Reference Identification - System Number or Others	0 .. 100		069		
<b>N1</b> — Loop N1	1 .. 10		080		
<b>N1</b> — Name - Consignee or Others	1 .. 1		080		
<b>N3</b> — Address Information	0 .. 2		100		
<b>N4</b> — Geographic Location	0 .. 1		110		
<b>G61</b> — Contact	0 .. 3		120		
<b>R4</b> — Loop R4	1 .. 20		130		
<b>R4</b> — Port or Terminal	1 .. 1		130		
<b>DTM</b> — Date/Time Reference - Estimated Departure Date or Others	0 .. 1		140		
<b>LX</b> — Loop LX	1 .. 999		010		
<b>LX</b> — Assigned Number	1 .. 1		010		
<b>N7</b> — Equipment Details	0 .. 1		020		
<b>W09</b> — Equipment and Temperature	0 .. 1		021		
<b>L0</b> — Line Item - Quantity and Weight	0 .. 1		040		
<b>L4</b> — Measurement	0 .. 1		060		
<b>H1</b> — Loop H1	0 .. 10		070		
<b>H1</b> — Hazardous Material	1 .. 1		070		
<b>V1</b> — Vessel Identification	0 .. 2		090		
<b>SE</b> — Transaction Set Trailer	1 .. 1		010		

## 4 DETAILS MESSAGE

### 4.1 300 — Reservation (Booking Request) (Ocean)

#### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
† <b>ST</b> — Transaction Set Header - Reservation (Booking Request) (Ocean)	1 .. 1		010		
† <b>B1</b> — Beginning Segment for Booking or Pick-up/Delivery	1 .. 1		020		
† <b>Y1</b> — Space Reservation Request	1 .. 1		050		
† <b>Y2</b> — Loop Y2	0 .. 10		060		
† <b>N9</b> — Reference Identification - System Number or Others	0 .. 100		069		
† <b>N1</b> — Loop N1	1 .. 10		080		
† <b>R4</b> — Loop R4	1 .. 20		130		
† <b>LX</b> — Loop LX	1 .. 999		010		
† <b>V1</b> — Vessel Identification	0 .. 2		090		
† <b>SE</b> — Transaction Set Trailer	1 .. 1		010		

#### Properties

Identifier 300

Name Reservation (Booking Request) (Ocean)

Cardinality min: 1 max: 1



## 4.2 ST [143 = "300"] — Transaction Set Header - Reservation (Booking Request) (Ocean)

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>ST</b> — Transaction Set Header - Reservation (Booking Request) (Ocean)	1 .. 1		010		
<b>143</b> — Transaction Set Identifier Code	1 .. 1	Token	01	3 .. 3	143
<b>329</b> — Transaction Set Control Number	1 .. 1	String	02	4 .. 9	

### Documentation

**Definition** To indicate the start of a transaction set and to assign a control number

### Properties

**Identifier** ST  
**Name** Transaction Set Header - Reservation (Booking Request) (Ocean)  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 010  
**Level** 2

### Notes

**Usage 1** The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>143</b> Transaction Set Identifier Code	Code uniquely identifying a Transaction Set  <b>Selected Values</b> Code 300 Name Reservation (Booking Request) (Ocean)	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 3 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01  <b>Codelist Id</b> 143 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>329</b> 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	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 4 max: 9 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02

### 4.3 B1 — Beginning Segment for Booking or Pick-up/Delivery

#### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>B1</b> — Beginning Segment for Booking or Pick-up/Delivery	1 .. 1		020		
<b>140</b> — Standard Carrier Alpha Code	0 .. 1	Token	01	2 .. 4	
<b>145</b> — Shipment Identification Number	1 .. 1	String	02	1 .. 30	
<b>558</b> — Reservation Action Code	0 .. 1	Token	04	1 .. 1	558

#### Documentation

**Definition** To transmit identifying numbers, dates, and other basic data relating to the transaction set

#### Properties

**Identifier** B1  
**Name** Beginning Segment for Booking or Pick-up/Delivery  
**Cardinality** min: 1 max: 1

#### Syntax Type Related

**External Category** Segment  
**Position** 020  
**Level** 2

#### Notes

- Usage 1** B101 is the Standard Carrier Alpha Code (SCAC) of the carrier sending the EDI transmission.  
**Usage 2** B103 is the booking date accepted by the carrier.

#### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>140</b> Standard Carrier Alpha Code	Standard Carrier Alpha Code	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 4 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01
<b>145</b> Shipment Identification Number	Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 30 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02
<b>558</b> Reservation Action Code	Code identifying action on reservation or offering  <b>Selected Values</b> Code N Name New Code U Name Change	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 04  <b>Codelist Id</b> 558 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010

## 4.4 Y1 — Space Reservation Request

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>Y1</b> — Space Reservation Request	1 .. 1		050		
<b>135</b> — Sailing/Flight Date Estimated	0 .. 1	Date	01	8 .. 8	
<b>91</b> — Transportation Method/Type Code	0 .. 1	Token	04	1 .. 2	91
<b>375</b> — Tariff Service Code	0 .. 1	Token	08	2 .. 2	375
<b>374</b> — Date/Time Qualifier	0 .. 1	Token	09	3 .. 3	374

### Documentation

**Definition** To specify information used to make a reservation for space on an ocean vessel

### Properties

**Identifier** Y1  
**Name** Space Reservation Request  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 050  
**Level** 2

### Notes

**Usage 1** Y102 is the date the shipment for which space reservation is requested to be available at the origin.  
**Constraint 1** P0209 Paired Multiple - If any are used, all must be used

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>135</b> Sailing/Flight Date Estimated	Date for reservation expressed in format CCYYMMDD  <b>Usage 1</b> Expected time zone is UTC.	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Date <b>Length</b> min: 8 max: 8 <b>Date Time Format</b> CCYYMMDD <b>External Category</b> Simple Data Element <b>Data Type</b> DT <b>Position</b> 01
<b>91</b> Transportation Method/Type Code	Code specifying the method or type of transportation for the shipment  <b>Selected Values</b> Code S Name Ocean	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 04  <b>Codelist Id</b> 91 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>375</b> Tariff Service Code	Code specifying the types of services for rating purposes  <b>Selected Values</b> Code DD Name Door-to-Door Rate applies for shipments in door-to-door service Code DP Name Door-to-Pier Rate applies for shipments in	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 08  <b>Codelist Id</b> 375 <b>Type System</b> ASC_X12

	<p>door-to-ocean carrier's port/terminal pier service</p> <p><b>Code PD Name</b> Pier-to-Door Rate applies for shipments in pier-to-door service</p> <p><b>Code PP Name</b> Pier-to-Pier All cargo other than that specified in codes HH, HP, or PH whether shipped in containers or otherwise</p>	<p><b>Version Mode</b> Current <b>Version</b> 004010</p>
<p><b>374</b> Date/Time Qualifier</p>	<p>Code specifying type of date or time, or both date and time</p> <p><b>Selected Values</b> <b>Code 369 Name</b> Estimated Departure Date <b>Code 371 Name</b> Estimated Arrival Date</p>	<p><b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 3 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 09</p> <hr/> <p><b>Codelist Id</b> 374 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010</p>

## 4.5 Y2 — Loop Y2

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
├ Y2 — Loop Y2	0 .. 10		060		
└ Y2 — Container Details	1 .. 1		060		

### Properties

Identifier Y2  
 Name Loop Y2  
 Cardinality min: 0 max: 10

### Syntax Type Related

External Category Loop  
 Position 060  
 Level 2

## 4.6 Y2 — Container Details

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
├ <b>Y2</b> — Loop Y2	0 .. 10		060		
└ <b>Y2</b> — Container Details	1 .. 1		060		
└ <b>95</b> — Number of Containers	1 .. 1	Integer	01	1 .. 4	
└ <b>24</b> — Equipment Type	1 .. 1	Token	04	4 .. 4	

### Documentation

**Definition** To specify container information and transportation service to be used

### Properties

**Identifier** Y2

**Name** Container Details

**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment

**Position** 060

**Level** 3

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>95</b> Number of Containers	Number of shipping containers	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Integer <b>Length</b> min: 1 max: 4 <b>Fraction Digits</b> 0 <b>Total Digits</b> 4 <b>External Category</b> Simple Data Element <b>Data Type</b> N0 <b>Position</b> 01
<b>24</b> Equipment Type	Code identifying equipment type	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 4 max: 4 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 04

#### 4.7 N9 [128 = "06" | "EV" | "TN"] — Reference Identification - System Number or Others

##### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
300 — Reservation (Booking Request) (Ocean)	1 .. 1				
├ N9 — Reference Identification - System Number or Others	0 .. 100		069		
└ 128 — Reference Identification Qualifier	1 .. 1	Token	01	2 .. 3	128
└ └ 127 — Reference Identification	0 .. 1	String	02	1 .. 30	

##### Documentation

**Definition** To transmit identifying information as specified by the Reference Identification Qualifier

##### Properties

**Identifier** N9

**Name** Reference Identification - System Number or Others

**Cardinality** min: 0 max: 100

Qualification	Qualified By	Qualifying values	
		Code	Description
.128		06	System Number
		EV	Receiver Identification Number
		TN	Transaction Reference Number

##### Syntax Type Related

**External Category** Segment

**Position** 069

**Level** 2

##### Notes

**Usage 1** N906 reflects the time zone which the time reflects.

**Usage 2** N907 contains data relating to the value cited in N902.

**Usage 3** If N901 is "EV", N902 contains an internal-ID used to identify the technical document. The same fields with same values are expected in the corresponding 301 message.

**Constraint 1** R0203 Required - At least one of those noted must be used

**Constraint 2** C0605 Conditional - If the first element is present, then the others must be present

##### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
128 Reference Identification Qualifier	Code qualifying the Reference Identification  <b>Selected Values</b> <b>Code 06 Name</b> System Number <b>Code EV Name</b> Receiver Identification Number A unique number identifying the organization/site location designated to receive the current transmitted transaction set <b>Code TN Name</b> Transaction Reference Number	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01 <hr/> <b>Codelist Id</b> 128 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
127 Reference Identification	Reference information as defined for a particular Transaction Set or as specified by the Reference	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String

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	Identification Qualifier	<b>Length</b> min: 1 max: 30 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02
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## 4.8 N1 — Loop N1

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>N1</b> — Loop N1	1 .. 10		080		
<b>N1</b> — Name - Consignee or Others	1 .. 1		080		
<b>N3</b> — Address Information	0 .. 2		100		
<b>N4</b> — Geographic Location	0 .. 1		110		
<b>G61</b> — Contact	0 .. 3		120		

### Properties

Identifier N1  
 Name Loop N1  
 Cardinality min: 1 max: 10

### Syntax Type Related

External Category Loop  
 Position 080  
 Level 2

## 4.9 N1 [98 = "CN" | "OB" | "SH"] — Name - Consignee or Others

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>N1</b> — Loop N1	1 .. 10		080		
<b>N1</b> — Name - Consignee or Others	1 .. 1		080		
<b>98</b> — Entity Identifier Code	1 .. 1	Token	01	2 .. 3	98
<b>93</b> — Name	0 .. 1	String	02	1 .. 60	
<b>66</b> — Identification Code Qualifier	0 .. 1	Token	03	1 .. 2	66
<b>67</b> — Identification Code - D-U-N-S Number, Dun & Bradstreet or Others	0 .. 1	String	04	2 .. 80	

### Documentation

**Definition** To identify a party by type of organization, name, and code

### Properties

**Identifier** N1  
**Name** Name - Consignee or Others  
**Cardinality** min: 1 max: 1

Qualification	Qualified By	Qualifying values	
		Code	Description
/98		CN	Consignee
		OB	Ordered By
		SH	Shipper

### Syntax Type Related

**External Category** Segment  
**Position** 080  
**Level** 3

### Notes

- Constraint 1** R0203 Required - At least one of those noted must be used
- Constraint 2** P0304 Paired Multiple - If any are used, all must be used
- Comment 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.
- Comment 2** N105 and N106 further define the type of entity in N101.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>98</b> Entity Identifier Code	Code identifying an organizational entity, a physical location, property or an individual  <b>Selected Values</b> Code CN Name Consignee Code OB Name Ordered By Code SH Name Shipper	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01 <hr/> <b>Codelist Id</b> 98 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010

<b>93</b> Name	Free-form name	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 60 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02
<b>66</b> Identification Code Qualifier	Code designating the system/method of code structure used for Identification Code (67)  <b>Selected Values</b> <b>Code 1 Name</b> D-U-N-S Number, Dun & Bradstreet <b>Code 2 Name</b> Standard Carrier Alpha Code (SCAC) <b>Code 4 Name</b> International Air Transport Association (IATA) <b>Code 8 Name</b> UCC/EAN Global Product Identification Prefix The first part of a UCC/EAN Product Identification Code within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system; A globally unique 3 to 10 digit code for the identification of the company assigning the remainder of the ID code, such as U.P.C., EAN-13, SCC-14, EAN-14 or SSCC-18	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 03  <hr/> <b>Codelist Id</b> 66 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>67 [66 = "1"   "2"   "4"   "8"]</b> Identification Code - D-U-N-S Number, Dun & Bradstreet or Others	Code identifying a party or other code	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 80 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 04

## 4.10 N3 — Address Information

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>N1</b> — Loop N1	1 .. 10		080		
<b>N3</b> — Address Information	0 .. 2		100		
<b>166</b> — Address Information	1 .. 1	String	01	1 .. 55	

### Documentation

**Definition** To specify the location of the named party

### Properties

**Identifier** N3

**Name** Address Information

**Cardinality** min: 0 max: 2

### Syntax Type Related

**External Category** Segment

**Position** 100

**Level** 3

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>166</b> Address Information	Address information	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 55 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 01

## 4.11 N4 — Geographic Location

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>N1</b> — Loop N1	1 .. 10		080		
<b>N4</b> — Geographic Location	0 .. 1		110		
<b>19</b> — City Name	0 .. 1	String	01	2 .. 30	
<b>156</b> — State or Province Code	0 .. 1	Token	02	2 .. 2	
<b>116</b> — Postal Code	0 .. 1	Token	03	3 .. 15	
<b>26</b> — Country Code	0 .. 1	Token	04	2 .. 3	ISO_3166-1

### Documentation

**Definition** To specify the geographic place of the named party

### Properties

**Identifier** N4  
**Name** Geographic Location  
**Cardinality** min: 0 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 110  
**Level** 3

### Notes

- Constraint 1** C0605 Conditional - If the first element is present, then the others must be present  
**Comment 1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.  
**Comment 2** N402 is required only if city name (N401) is in the U.S. or Canada.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>19</b> City Name	Free-form text for city name	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 30 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 01
<b>156</b> State or Province Code	Code (Standard State/Province) as defined by appropriate government agency	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 02
<b>116</b> Postal Code	Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 3 max: 15 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 03
<b>26</b> Country Code	Code identifying the country  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 04

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		<b>Codelist Id</b> ISO_3166-1 <b>Type System</b> ISO_CodelistsAndSchemes <b>Version Mode</b> Latest <b>Version</b> 2013
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## 4.12 G61 — Contact

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
300 — Reservation (Booking Request) (Ocean)	1 .. 1				
├ N1 — Loop N1	1 .. 10		080		
│ └ G61 — Contact	0 .. 3		120		
│ │ └ 366 — Contact Function Code	1 .. 1	Token	01	2 .. 2	366
│ │ └ 93 — Name	1 .. 1	String	02	1 .. 60	
│ │ └ 365 — Communication Number Qualifier	0 .. 1	Token	03	2 .. 2	365
│ │ └ 364 — Communication Number - Electronic Mail or Others	0 .. 1	String	04	1 .. 80	

### Documentation

**Definition** To identify a person or office to whom communications should be directed

### Properties

**Identifier** G61  
**Name** Contact  
**Cardinality** min: 0 max: 3

### Syntax Type Related

**External Category** Segment  
**Position** 120  
**Level** 3

### Notes

**Constraint 1** P0304 Paired Multiple - If any are used, all must be used  
**Comment 1** G6103 qualifies G6104.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
366 Contact Function Code	Code identifying the major duty or responsibility of the person or group named  <b>Selected Values</b> Code FQ Name Staff	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01 <hr/> <b>Codelist Id</b> 366 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
93 Name	Free-form name	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 60 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02
365 Communication Number Qualifier	Code identifying the type of communication number  <b>Selected Values</b> Code EM Name Electronic Mail Code FX Name Facsimile Code TE Name Telephone Code WC Name Work Cellular	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 03 <hr/> <b>Codelist Id</b> 365

		<b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>364 [365 = "EM"   "FX"   "TE"   "WC"]</b> Communication Number - Electronic Mail or Others	Complete communications number including country or area code when applicable	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 80 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 04



## 4.13 R4 — Loop R4

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>R4</b> — Loop R4	1 .. 20		130		
<b>R4</b> — Port or Terminal	1 .. 1		130		
<b>DTM</b> — Date/Time Reference - Estimated Departure Date or Others	0 .. 1		140		

### Properties

**Identifier** R4  
**Name** Loop R4  
**Cardinality** min: 1                   max: 20

### Syntax Type Related

**External Category** Loop  
**Position** 130  
**Level** 2

## 4.14 R4 — Port or Terminal

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>R4</b> — Loop R4	1 .. 20		130		
<b>R4</b> — Port or Terminal	1 .. 1		130		
<b>115</b> — Port or Terminal Function Code	1 .. 1	Token	01	1 .. 1	115
<b>309</b> — Location Qualifier	0 .. 1	Token	02	1 .. 2	309
<b>310</b> — Location Identifier - Destination (Shipping) or Others	0 .. 1	String	03	1 .. 30	
<b>114</b> — Port Name	0 .. 1	String	04	2 .. 24	
<b>26</b> — Country Code	0 .. 1	Token	05	2 .. 3	ISO_3166-1

### Documentation

**Definition** Contractual or operational port or point relevant to the movement of the cargo

### Properties

**Identifier** R4  
**Name** Port or Terminal  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 130  
**Level** 3

### Notes

**Constraint 1** P0203 Paired Multiple - If any are used, all must be used  
**Comment 1** R4 is required for each port to be identified.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>115</b> Port or Terminal Function Code	Code defining function performed at the port or terminal with respect to a shipment  <b>Selected Values</b> <b>Code A Name</b> Place of Acceptance (Operational) Place at which carrier actually accepts cargo from shipper or his agent <b>Code D Name</b> Port of Discharge (Operational) Port at which cargo is unloaded from vessel <b>Code E Name</b> Place of Delivery (Contractual) Place at which cargo leaves its care and custody of carrier <b>Code L Name</b> Port of Loading (Operational) Port at which cargo is loaded on vessel	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01  <b>Codelist Id</b> 115 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>309</b> Location Qualifier	Code identifying type of location  <b>Selected Values</b> <b>Code DE Name</b> Destination (Shipping) <b>Code KL Name</b> Port of Loading <b>Code OR Name</b> Origin (Shipping Point) <b>Code PB Name</b> Port of Discharge Port where shipment is unloaded	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 02  <b>Codelist Id</b> 309 <b>Type System</b> ASC_X12

		<b>Version Mode</b> Current <b>Version</b> 004010
<b>310</b> [309 = "DE"   "KL"   "OR"   "PB"] Location Identifier - Destination (Shipping) or Others	Code which identifies a specific location	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 30 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 03
<b>114</b> Port Name	Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 24 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 04
<b>26</b> Country Code	Code identifying the country  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 05  <hr/> <b>Codelist Id</b> ISO_3166-1 <b>Type System</b> ISO_CodelistsAndSchemes <b>Version Mode</b> Latest <b>Version</b> 2013

#### 4.15 DTM [374 = "369" | "371"] — Date/Time Reference - Estimated Departure Date or Others

##### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
300 — Reservation (Booking Request) (Ocean)	1 .. 1				
├ R4 — Loop R4	1 .. 20		130		
│ └ DTM — Date/Time Reference - Estimated Departure Date or Others	0 .. 1		140		
│ │ └ 374 — Date/Time Qualifier	1 .. 1	Token	01	3 .. 3	374
│ │ └ 373 — Date	0 .. 1	Date	02	8 .. 8	
│ │ └ 337 — Time	0 .. 1	Time	03	4 .. 8	
│ │ └ 623 — Time Code	0 .. 1	Token	04	2 .. 2	623
│ │ └ 1250 — Date Time Period Format Qualifier	0 .. 1	Token	05	2 .. 3	1250
│ │ └ 1251 — Date Time Period - Range of Date and Time, Expressed in Format CCYYMMDDHHMM-CCYYMMDDHHMM	0 .. 1	String	06	1 .. 35	

##### Documentation

**Definition** To specify pertinent dates and times

##### Properties

**Identifier** DTM

**Name** Date/Time Reference - Estimated Departure Date or Others

**Cardinality** min: 0 max: 1

Qualification	Qualified By	Qualifying values	
		Code	Description
/374		369	Estimated Departure Date
		371	Estimated Arrival Date

##### Syntax Type Related

**External Category** Segment

**Position** 140

**Level** 3

##### Notes

**Constraint 1** R020305 Required - At least one of those noted must be used

**Constraint 2** C0403 Conditional - If the first element is present, then the others must be present

**Constraint 3** P0506 Paired Multiple - If any are used, all must be used

##### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
374 Date/Time Qualifier	Code specifying type of date or time, or both date and time  <b>Selected Values</b> Code 369 Name Estimated Departure Date Code 371 Name Estimated Arrival Date	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 3 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01 <hr/> <b>Codelist Id</b> 374 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
373	Date expressed as CCYYMMDD	<b>Cardinality</b> min: 0 max: 1

Date		<b>Primitive Type</b> Date <b>Length</b> min: 8 max: 8 <b>Date Time Format</b> CCYYMMDD <b>External Category</b> Simple Data Element <b>Data Type</b> DT <b>Position</b> 02
<b>337</b> Time	Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Time <b>Length</b> min: 4 max: 8 <b>Date Time Format</b> hhmm[ss[fff]] <b>External Category</b> Simple Data Element <b>Data Type</b> TM <b>Position</b> 03
<b>623</b> Time Code	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  <b>Selected Values</b> <b>Code LT Name</b> Local Time <b>Code UT Name</b> Universal Time Coordinate	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 04  <b>Codelist Id</b> 623 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>1250</b> Date Time Period Format Qualifier	Code indicating the date format, time format, or date and time format  <b>Selected Values</b> <b>Code RDT Name</b> Range of Date and Time, Expressed in Format CCYYMMDDHHMM-CCYYMMDDHHMM A range of dates and times expressed in the format CCYYMMDDHHMM-CCYYMMDDHHMM where CCYY is the numerical expression of the century CC and year YY, MM is the numerical expression of the month within the year, DD is the numerical expression of the day within the month, HH is the numerical expression of hours in the day based on a twenty-four hour clock, and MM is the numerical expression of minutes within an hour; the first occurrence of CCYYMMDDHHMM is the starting time and the second is the ending time	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 3 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 05  <b>Codelist Id</b> 1250 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>1251 [1250 = "RDT"]</b> Date Time Period - Range of Date and Time, Expressed in Format CCYYMMDDHHMM-CCYYMMDDHHMM	Expression of a date, a time, or range of dates, times or dates and times	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 35 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 06

## 4.16 LX — Loop LX

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>LX</b> — Loop LX	1 .. 999		010		
<b>LX</b> — Assigned Number	1 .. 1		010		
<b>N7</b> — Equipment Details	0 .. 1		020		
<b>W09</b> — Equipment and Temperature	0 .. 1		021		
<b>L0</b> — Line Item - Quantity and Weight	0 .. 1		040		
<b>L4</b> — Measurement	0 .. 1		060		
<b>H1</b> — Loop H1	0 .. 10		070		

### Properties

Identifier LX  
 Name Loop LX  
 Cardinality min: 1 max: 999

### Syntax Type Related

External Category Loop  
 Position 010  
 Level 2

## 4.17 LX — Assigned Number

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>LX</b> — Loop LX	1 .. 999		010		
<b>LX</b> — Assigned Number	1 .. 1		010		
<b>554</b> — Assigned Number	1 .. 1	Integer	01	1 .. 6	

### Documentation

**Definition** To reference a line number in a transaction set

### Properties

**Identifier** LX

**Name** Assigned Number

**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment

**Position** 010

**Level** 3

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>554</b> Assigned Number	Number assigned for differentiation within a transaction set	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Integer <b>Length</b> min: 1 max: 6 <b>Fraction Digits</b> 0 <b>Total Digits</b> 6 <b>External Category</b> Simple Data Element <b>Data Type</b> NO <b>Position</b> 01

## 4.18 N7 — Equipment Details

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>LX</b> — Loop LX	1 .. 999		010		
<b>N7</b> — Equipment Details	0 .. 1		020		
<b>207</b> — Equipment Number	1 .. 1	String	02	1 .. 10	
<b>102</b> — Ownership Code	0 .. 1	Token	10	1 .. 1	102
<b>24</b> — Equipment Type	0 .. 1	Token	22	4 .. 4	

### Documentation

**Definition** To identify the equipment

### Properties

**Identifier** N7  
**Name** Equipment Details  
**Cardinality** min: 0 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 020  
**Level** 3

### Notes

- Usage 1** N712 is the owner of the equipment.  
**Usage 2** N723 is the operator or carrier of the rights of the equipment.  
**Constraint 1** P0304 Paired Multiple - If any are used, all must be used  
**Constraint 2** P0516 Paired Multiple - If any are used, all must be used  
**Constraint 3** P0809 Paired Multiple - If any are used, all must be used  
**Comment 1** N701 is mandatory for rail transactions.  
**Comment 2** N720 and N721 are expressed in inches.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>207</b> Equipment Number	Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 10 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02
<b>102</b> Ownership Code	Code indicating the relationship of equipment to carrier or ownership of equipment  <b>Selected Values</b> <b>Code N Name</b> Not Customer Owned or Leased <b>Code S Name</b> Customer Owned or Leased	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 10  <b>Codelist Id</b> 102 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>24</b> Equipment Type	Code identifying equipment type	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token



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		<b>Length</b> min: 4 max: 4 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 22
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## 4.19 W09 — Equipment and Temperature

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>LX</b> — Loop LX	1 .. 999		010		
<b>W09</b> — Equipment and Temperature	0 .. 1		021		
<b>40</b> — Equipment Description Code	1 .. 1	Token	01	2 .. 2	40
<b>408</b> — Temperature	0 .. 1	Decimal	02	1 .. 4	
<b>355</b> — Unit or Basis for Measurement Code	0 .. 1	Token	03	2 .. 2	355
<b>408</b> — Temperature	0 .. 1	Decimal	04	1 .. 4	
<b>355</b> — Unit or Basis for Measurement Code	0 .. 1	Token	05	2 .. 2	355
<b>1122</b> — Vent Setting Code	0 .. 1	Token	07	1 .. 1	1122
<b>488</b> — Percent	0 .. 1	Integer	08	1 .. 3	
<b>380</b> — Quantity	0 .. 1	Decimal	09	1 .. 15	

### Documentation

**Definition** To relate equipment type and required temperatures

### Properties

**Identifier** W09  
**Name** Equipment and Temperature  
**Cardinality** min: 0 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 021  
**Level** 3

### Notes

- Usage 1** W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
- Usage 2** W0904 is the maximum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0905).
- Usage 3** W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
- Usage 4** W0908 is the humidity percentage.
- Usage 5** W0909 is the number of air exchanges per hour.
- Constraint 1** P0203 Paired Multiple - If any are used, all must be used
- Constraint 2** P0405 Paired Multiple - If any are used, all must be used

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>40</b> Equipment Description Code	Code identifying type of equipment used for shipment  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01 <hr/> <b>Codelist Id</b> 40 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>408</b>	Temperature	<b>Cardinality</b> min: 0 max: 1

Temperature		<b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 4 <b>Total Digits</b> 4 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 02
<b>355</b> Unit or Basis for Measurement Code	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <b>Selected Values</b> <b>Code CE Name</b> Centigrade, Celsius <b>Code FA Name</b> Fahrenheit	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 03 <hr/> <b>Codelist Id</b> 355 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>408</b> Temperature	Temperature	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 4 <b>Total Digits</b> 4 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 04
<b>355</b> Unit or Basis for Measurement Code	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <b>Selected Values</b> <b>Code CE Name</b> Centigrade, Celsius <b>Code FA Name</b> Fahrenheit	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 2 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 05 <hr/> <b>Codelist Id</b> 355 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>1122</b> Vent Setting Code	Code describing the setting on the air vents on ocean-type containers  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 07 <hr/> <b>Codelist Id</b> 1122 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>488</b> Percent	Percent expressed as 0 to 100	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Integer <b>Length</b> min: 1 max: 3 <b>Fraction Digits</b> 0 <b>Total Digits</b> 3 <b>External Category</b> Simple Data Element <b>Data Type</b> N0 <b>Position</b> 08
<b>380</b> Quantity	Numeric value of quantity  <b>Usage 1</b> Air Exchange per hour in cubic meters. No other unit is supported!	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 15 <b>Total Digits</b> 15 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 09

## 4.20 L0 — Line Item - Quantity and Weight

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>LX</b> — Loop LX	1 .. 999		010		
<b>L0</b> — Line Item - Quantity and Weight	0 .. 1		040		
<b>81</b> — Weight	0 .. 1	Decimal	04	1 .. 10	
<b>187</b> — Weight Qualifier	0 .. 1	Token	05	1 .. 2	187
<b>183</b> — Volume	0 .. 1	Decimal	06	1 .. 8	
<b>184</b> — Volume Unit Qualifier	0 .. 1	Token	07	1 .. 1	184
<b>80</b> — Lading Quantity	0 .. 1	Integer	08	1 .. 7	
<b>188</b> — Weight Unit Code	0 .. 1	Token	11	1 .. 1	188

### Documentation

**Definition** To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

### Properties

**Identifier** L0  
**Name** Line Item - Quantity and Weight  
**Cardinality** min: 0 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 040  
**Level** 3

### Notes

- Usage 1** L008 is the number of handling units of the line item tendered to the carrier.
- Usage 2** L013 can only be used if the code in L009 is PLT, SKD, or SLP.
- Usage 3** L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
- Constraint 1** P0203 Paired Multiple - If any are used, all must be used
- Constraint 2** P0405 Paired Multiple - If any are used, all must be used
- Constraint 3** P0607 Paired Multiple - If any are used, all must be used
- Constraint 4** P0809 Paired Multiple - If any are used, all must be used
- Constraint 5** C1104 Conditional - If the first element is present, then the others must be present
- Constraint 6** P1315 Paired Multiple - If any are used, all must be used
- Comment 1** L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>81</b> Weight	Numeric value of weight	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 10 <b>Total Digits</b> 10 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 04
<b>187</b> Weight Qualifier	Code defining the type of weight	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token

	<b>Selected Values</b> <b>Code G Name Gross Weight</b>	<b>Length</b> min: 1 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 05 <hr/> <b>Codelist Id</b> 187 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>183</b> Volume	Value of volumetric measure	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 8 <b>Total Digits</b> 8 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 06
<b>184</b> Volume Unit Qualifier	Code identifying the volume unit <b>Selected Values</b> <b>Code C Name</b> Cubic Centimeters <b>Code E Name</b> Cubic Feet <b>Code M Name</b> Cubic Decimeters <b>Code N Name</b> Cubic Inches <b>Code V Name</b> Liter <b>Code X Name</b> Cubic Meters	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 07 <hr/> <b>Codelist Id</b> 184 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>80</b> Lading Quantity	Number of units (pieces) of the lading commodity	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Integer <b>Length</b> min: 1 max: 7 <b>Fraction Digits</b> 0 <b>Total Digits</b> 7 <b>External Category</b> Simple Data Element <b>Data Type</b> N0 <b>Position</b> 08
<b>188</b> Weight Unit Code	Code specifying the weight unit <b>Selected Values</b> <b>Code E Name</b> Metric Ton <b>Code K Name</b> Kilograms <b>Code L Name</b> Pounds	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 11 <hr/> <b>Codelist Id</b> 188 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010

## 4.21 L4 — Measurement

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
├ <b>LX</b> — Loop LX	1 .. 999		010		
│ └ <b>L4</b> — Measurement	0 .. 1		060		
│ │ └ <b>82</b> — Length	1 .. 1	Decimal	01	1 .. 8	
│ │ └ <b>189</b> — Width	1 .. 1	Decimal	02	1 .. 8	
│ │ └ <b>65</b> — Height	1 .. 1	Decimal	03	1 .. 8	
│ │ └ <b>90</b> — Measurement Unit Qualifier	1 .. 1	Token	04	1 .. 1	90
│ │ └ <b>380</b> — Quantity	0 .. 1	Decimal	05	1 .. 15	
│ │ └ <b>1271</b> — Industry Code	0 .. 1	String	06	1 .. 30	

### Documentation

**Definition** To describe physical dimensions and quantities

### Properties

**Identifier** L4  
**Name** Measurement  
**Cardinality** min: 0 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 060  
**Level** 3

### Notes

**Usage 1** L406 is the Rounding in Pattern for dimensional shipments.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>82</b> Length	Largest horizontal dimension of an object measured when the object is in the upright position	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 8 <b>Total Digits</b> 8 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 01
<b>189</b> Width	Shorter measurement of the two horizontal dimensions measured with the object in the upright position	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 8 <b>Total Digits</b> 8 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 02
<b>65</b> Height	Vertical dimension of an object measured when the object is in the upright position	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 8 <b>Total Digits</b> 8 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 03
<b>90</b> Measurement Unit Qualifier	Code specifying the linear dimensional unit  <b>Selected Values</b> All Values in Codelist	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 1 <b>External Category</b> Simple Data Element

		<b>Data Type ID</b> <b>Position</b> 04 <hr/> <b>Codelist Id</b> 90 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010
<b>380</b> Quantity	Numeric value of quantity	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Decimal <b>Length</b> min: 1 max: 15 <b>Total Digits</b> 15 <b>External Category</b> Simple Data Element <b>Data Type</b> R <b>Position</b> 05
<b>1271</b> Industry Code	Code indicating a code from a specific industry code list  <b>Usage 1</b> this is the measurement unit of the field 380	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 30 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 06

## 4.22 H1 — Loop H1

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
├ <b>LX</b> — Loop LX	1 .. 999		010		
└ <b>H1</b> — Loop H1	0 .. 10		070		
└ <b>H1</b> — Hazardous Material	1 .. 1		070		

### Properties

Identifier H1  
 Name Loop H1  
 Cardinality min: 0 max: 10

### Syntax Type Related

External Category Loop  
 Position 070  
 Level 3



## 4.23 H1 — Hazardous Material

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
└ <b>LX</b> — Loop LX	1 .. 999		010		
└ └ <b>H1</b> — Loop H1	0 .. 10		070		
└ └ └ <b>H1</b> — Hazardous Material	1 .. 1		070		
└ └ └ └ <b>62</b> — Hazardous Material Code	1 .. 1	String	01	4 .. 10	
└ └ └ └ <b>209</b> — Hazardous Material Class Code	0 .. 1	String	02	1 .. 4	
└ └ └ └ <b>64</b> — Hazardous Material Description	0 .. 1	String	04	2 .. 30	

### Documentation

**Definition** To specify information relative to hazardous material

### Properties

**Identifier** H1  
**Name** Hazardous Material  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 070  
**Level** 4

### Notes

- Constraint 1** P0708 Paired Multiple - If any are used, all must be used  
**Comment 1** This segment is required when the shipment contains hazardous material.  
**Comment 2** H107 is the lowest temperature for hazardous materials.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>62</b> Hazardous Material Code	Code relating to hazardous material code qualifier for regulated hazardous materials	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 4 max: 10 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 01
<b>209</b> Hazardous Material Class Code	Code specifying the kind of hazard for a material	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 1 max: 4 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02
<b>64</b> Hazardous Material Description	Material name, special instructions, and phone number if any	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 30 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 04

## 4.24 V1 — Vessel Identification

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
<b>V1</b> — Vessel Identification	0 .. 2		090		
<b>597</b> — Vessel Code	0 .. 1	Token	01	1 .. 8	
<b>55</b> — Flight/Voyage Number	0 .. 1	String	04	2 .. 10	
<b>91</b> — Transportation Method/Type Code	0 .. 1	Token	09	1 .. 2	91

### Documentation

**Definition** To provide vessel details and voyage number

### Properties

**Identifier** V1  
**Name** Vessel Identification  
**Cardinality** min: 0 max: 2

### Syntax Type Related

**External Category** Segment  
**Position** 090  
**Level** 2

### Notes

- Usage 1** V103 is the code identifying the country in which the ship (vessel) is registered.  
**Usage 2** V105 identifies the ocean carrier.  
**Constraint 1** R0102 Required - At least one of those noted must be used  
**Constraint 2** C0801 Conditional - If the first element is present, then the others must be present

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>597</b> Vessel Code	Code identifying vessel	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 8 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 01
<b>55</b> Flight/Voyage Number	Identifying designator for the particular flight or voyage on which the cargo travels	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 2 max: 10 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 04
<b>91</b> Transportation Method/Type Code	Code specifying the method or type of transportation for the shipment  <b>Selected Values</b> Code S Name Ocean	<b>Cardinality</b> min: 0 max: 1 <b>Primitive Type</b> Token <b>Length</b> min: 1 max: 2 <b>External Category</b> Simple Data Element <b>Data Type</b> ID <b>Position</b> 09  <b>Codelist Id</b> 91 <b>Type System</b> ASC_X12 <b>Version Mode</b> Current <b>Version</b> 004010

## 4.25 SE — Transaction Set Trailer

### Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
<b>300</b> — Reservation (Booking Request) (Ocean)	1 .. 1				
└ <b>SE</b> — Transaction Set Trailer	1 .. 1		010		
└ └ <b>96</b> — Number of Included Segments	1 .. 1	Integer	01	1 .. 10	
└ └ └ <b>329</b> — Transaction Set Control Number	1 .. 1	String	02	4 .. 9	

### Documentation

**Definition** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

### Properties

**Identifier** SE  
**Name** Transaction Set Trailer  
**Cardinality** min: 1 max: 1

### Syntax Type Related

**External Category** Segment  
**Position** 010  
**Level** 2

### Notes

**Comment 1** SE is the last segment of each transaction set.

### Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
<b>96</b> Number of Included Segments	Total number of segments included in a transaction set including ST and SE segments	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> Integer <b>Length</b> min: 1 max: 10 <b>Fraction Digits</b> 0 <b>Total Digits</b> 10 <b>External Category</b> Simple Data Element <b>Data Type</b> N0 <b>Position</b> 01
<b>329</b> 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	<b>Cardinality</b> min: 1 max: 1 <b>Primitive Type</b> String <b>Length</b> min: 4 max: 9 <b>External Category</b> Simple Data Element <b>Data Type</b> AN <b>Position</b> 02

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