
SAP Schema Documentation

SAP Business Network for Logistics

Message Implementation Guide | Public

ANSI_X12_990

Message Type: 990

Document Version: 1.6 – 2024-07-20



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1 OVERVIEW HEADER

General Information

Name	ANSI X12 Interchange headers and trailers
Direction	Out
Status	Active
Message Type	Interchange Structure
External Category	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
Interchange — Interchange Structure	1 .. 1				
S_ISA — Interchange Control Header	1 .. 1				
D_I01 — Authorization Information Qualifier	1 .. 1	String		2 .. 2	D_I01
D_I02 — Authorization Information	1 .. 1	String		10 .. 10	
D_I03 — Security Information Qualifier	1 .. 1	String		2 .. 2	D_I03
D_I04 — Security Information	1 .. 1	String		10 .. 10	
D_I05_1 — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
D_I06 — Interchange Sender ID	1 .. 1	String		15 .. 15	
D_I05_2 — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
D_I07 — Interchange Receiver ID	1 .. 1	String		15 .. 15	
D_I08 — Interchange Date	1 .. 1	String		6 .. 6	
D_I09 — Interchange Time	1 .. 1	String		4 .. 4	
D_I10 — Interchange Control Standards Identifier	1 .. 1	String		1 .. 1	
D_I11 — Interchange Control Version Number	1 .. 1	String		5 .. 5	D_I11
D_I12 — Interchange Control Number	1 .. 1	String		9 .. 9	
D_I13 — Acknowledgment Requested	1 .. 1	String		1 .. 1	D_I13
D_I14 — Interchange Usage Indicator	1 .. 1	String		1 .. 1	D_I14
D_I15 — Component Element Separator	1 .. 1	String		1 .. 1	
FunctionalGroup — Functional Group	1 .. 1				
S_GS — Functional Group Header	1 .. 1				
D_479 — Functional Identifier Code	1 .. 1	String		2 .. 2	D_479
D_142 — Application Sender's Code	1 .. 1	String		2 .. 15	
D_124 — Application Receiver's Code	1 .. 1	String		2 .. 15	
D_373 — Date	1 .. 1	String		8 .. 8	
D_337 — Time	1 .. 1	String		6 .. 6	
D_28 — Group Control Number	1 .. 1	String		9 .. 9	
D_455 — Responsible Agency Code	1 .. 1	String		1 .. 1	D_455
D_480 — Version / Release / Industry Identifier	1 .. 1	String		6 .. 6	D_480
Code					
S_GE — Functional Group Trailer	1 .. 1				
D_97 — Number of Transaction Sets Included	1 .. 1	String		1 .. 1	
D_28 — Group Control Number	1 .. 1	String		9 .. 9	
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	

2 DETAILS HEADER

2.1 Interchange — Interchange Structure

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
Interchange — Interchange Structure	1 .. 1				
├ S_ISA — Interchange Control Header	1 .. 1				
├ FunctionalGroup — Functional Group	1 .. 1				
└ S_IEA — 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
Interchange — Interchange Structure	1 .. 1				
S_ISA — Interchange Control Header	1 .. 1				
D_I01 — Authorization Information Qualifier	1 .. 1	String		2 .. 2	D_I01
D_I02 — Authorization Information	1 .. 1	String		10 .. 10	
D_I03 — Security Information Qualifier	1 .. 1	String		2 .. 2	D_I03
D_I04 — Security Information	1 .. 1	String		10 .. 10	
D_I05_1 — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
D_I06 — Interchange Sender ID	1 .. 1	String		15 .. 15	
D_I05_2 — Interchange ID Qualifier	1 .. 1	String		2 .. 2	D_I05
D_I07 — Interchange Receiver ID	1 .. 1	String		15 .. 15	
D_I08 — Interchange Date	1 .. 1	String		6 .. 6	
D_I09 — Interchange Time	1 .. 1	String		4 .. 4	
D_I10 — Interchange Control Standards Identifier	1 .. 1	String		1 .. 1	
D_I11 — Interchange Control Version Number	1 .. 1	String		5 .. 5	D_I11
D_I12 — Interchange Control Number	1 .. 1	String		9 .. 9	
D_I13 — Acknowledgment Requested	1 .. 1	String		1 .. 1	D_I13
D_I14 — Interchange Usage Indicator	1 .. 1	String		1 .. 1	D_I14
D_I15 — 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
D_I01 Authorization Information Qualifier	Code identifying the type of information in the Authorization Information Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 2 External Category Element Data Type xsd:string <hr/> Codelist Id D_I01 Type System Customer_TS Version Mode Local Version 1.1
D_I02 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)	Cardinality min: 1 max: 1 Primitive Type String Length min: 10 max: 10 External Category Element Data Type xsd:string
D_I03 Security Information Qualifier	Code identifying the type of information in the Security Information Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 2 External Category Element Data Type xsd:string <hr/> Codelist Id D_I03

		Type System Customer_TS Version Mode Local Version 1.1
D_I04 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)	Cardinality min: 1 max: 1 Primitive Type String Length min: 10 max: 10 External Category Element Data Type xsd:string
D_I05_1 Interchange ID Qualifier	Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 2 External Category Element Data Type xsd:string <hr/> Codelist Id D_I05 Type System Customer_TS Version Mode Local Version 1.1
D_I06 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 Usage 1 This field contains the sender LBN ID. Constraint 1 For EDI 997 message type the LBN ID is always "LBN" as the message will be generated by the network.	Cardinality min: 1 max: 1 Primitive Type String Length min: 15 max: 15 External Category Element Data Type xsd:string
D_I05_2 Interchange ID Qualifier	Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 2 External Category Element Data Type xsd:string <hr/> Codelist Id D_I05 Type System Customer_TS Version Mode Local Version 1.1
D_I07 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 Usage 1 This field contains the receiver LBN ID.	Cardinality min: 1 max: 1 Primitive Type String Length min: 15 max: 15 External Category Element Data Type xsd:string
D_I08 Interchange Date	Date of the interchange	Cardinality min: 1 max: 1 Primitive Type String Length min: 6 max: 6 External Category Element Data Type xsd:string
D_I09 Interchange Time	Time of the interchange	Cardinality min: 1 max: 1 Primitive Type String Length min: 4 max: 4 External Category Element Data Type xsd:string
D_I10 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	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 1 External Category Element Data Type xsd:string

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

2.3 FunctionalGroup — Functional Group

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
Interchange — Interchange Structure	1 .. 1				
FunctionalGroup — Functional Group	1 .. 1				
S_GS — Functional Group Header	1 .. 1				
S_GE — 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
Interchange — Interchange Structure	1 .. 1				
FunctionalGroup — Functional Group	1 .. 1				
S_GS — Functional Group Header	1 .. 1				
D_479 — Functional Identifier Code	1 .. 1	String		2 .. 2	D_479
D_142 — Application Sender's Code	1 .. 1	String		2 .. 15	
D_124 — Application Receiver's Code	1 .. 1	String		2 .. 15	
D_373 — Date	1 .. 1	String		8 .. 8	
D_337 — Time	1 .. 1	String		6 .. 6	
D_28 — Group Control Number	1 .. 1	String		9 .. 9	
D_455 — Responsible Agency Code	1 .. 1	String		1 .. 1	D_455
D_480 — 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
D_479 Functional Identifier Code	Code identifying a group of application related transaction sets Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 2 External Category Element Data Type xsd:string <hr/> Codelist Id D_479 Type System Customer_TS Version Mode Local Version 1.1
D_142 Application Sender's Code	Code identifying party sending transmission; codes agreed to by trading partners	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 15 External Category Element Data Type xsd:string
D_124 Application Receiver's Code	Code identifying party receiving transmission; codes agreed to by trading partners	Cardinality min: 1 max: 1 Primitive Type String Length min: 2 max: 15 External Category Element Data Type xsd:string
D_373 Date	Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	Cardinality min: 1 max: 1 Primitive Type String Length min: 8 max: 8 External Category Element

		Data Type xsd:string
D_337 Time	Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	Cardinality min: 1 max: 1 Primitive Type String Length min: 6 max: 6 External Category Element Data Type xsd:string
D_28 Group Control Number	Assigned number originated and maintained by the sender	Cardinality min: 1 max: 1 Primitive Type String Length min: 9 max: 9 External Category Element Data Type xsd:string
D_455 Responsible Agency Code	Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 1 External Category Element Data Type xsd:string <hr/> Codelist Id D_455 Type System Customer_TS Version Mode Local Version 1.1
D_480 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 Selected Values All Values in Codelist	Cardinality min: 1 max: 1 Primitive Type String Length min: 6 max: 6 External Category Element Data Type xsd:string <hr/> Codelist Id D_480 Type System Customer_TS Version Mode Local Version 1.1

2.5 S_GE — Functional Group Trailer

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
Interchange — Interchange Structure	1 .. 1				
FunctionalGroup — Functional Group	1 .. 1				
S_GE — Functional Group Trailer	1 .. 1				
D_97 — Number of Transaction Sets Included	1 .. 1	String		1 .. 1	
D_28 — 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
D_97 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	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 1 External Category Element Data Type xsd:string
D_28 Group Control Number	Assigned number originated and maintained by the sender	Cardinality min: 1 max: 1 Primitive Type String Length min: 9 max: 9 External Category Element Data Type 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
D_I16 Number of Included Functional Groups	A count of the number of functional groups included in an interchange	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 1 External Category Element Data Type xsd:string
D_I12 Interchange Control Number	A control number assigned by the interchange sender	Cardinality min: 1 max: 1 Primitive Type String Length min: 9 max: 9 External Category Element Data Type xsd:string

3 OVERVIEW MESSAGE

General Information

Name	SAP_LBN_ANSI_X12_990
Direction	In
Status	Active
Message Type	Response to a Load Tender
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 Response to a Load Tender Transaction Set (990) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide general information relative to a specific shipment. The Response to a Load Tender is used as the response to a Motor Carrier Shipment Information Transaction Set (204) which has been used as a load tender.
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Notes

Example 1	<pre> ISA*00* *00* *02*Carrier LBNID*01*Shipper LBNID**211209*0841*U*00401*000000515*0*T*>~ GS*GF*Carrier LBNID**Shipper LBNID**20211209*084100*000000515*X*004010~ ST*990*5150001~ B1**Freightorder ID 1**A~ N9*06**Sender System ID*****IX>"Item ID"~ N7**Equipment ID"~ K1*free text~ SE*6*5150001~ ST*990*5150002~ B1**Freightorder ID 2**D~ N9*06**Sender System ID"~ K1*free text*optional free text~ SE*5*5150002~ GE*2*000000515~ IEA*2*000000515~ </pre>
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3.1 Structure

The following table shows the complete structure.

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
ST — Transaction Set Header - Response To a Load Tender	1 .. 1		010		
143 — Transaction Set Identifier Code	1 .. 1	Token	01	3 .. 3	143
329 — Transaction Set Control Number	1 .. 1	String	02	4 .. 9	
B1 — Beginning Segment for Booking or Pick-up/Delivery	1 .. 1		020		
145 — Shipment Identification Number	1 .. 1	String	02	1 .. 30	
558 — Reservation Action Code	1 .. 1	Token	04	1 .. 1	558
N9 — Reference Identification	1 .. 1		030		
128 — Reference Identification Qualifier	1 .. 1	Token	01	2 .. 3	128
127 — Reference Identification - System Number	1 .. 1	String	02	1 .. 30	
C040 — Reference Identifier	0 .. 1		07		
128 — Reference Identification Qualifier	1 .. 1	Token	01	2 .. 3	128
127 — Reference Identification	1 .. 1	String	02	1 .. 30	
N7 — Equipment Details	0 .. 1		036		
207 — Equipment Number	1 .. 1	String	02	1 .. 10	
K1 — Remarks	0 .. 10		060		
61 — Free-Form Message	1 .. 1	String	01	1 .. 30	
SE — Transaction Set Trailer	1 .. 1		070		
96 — Number of Included Segments	1 .. 1	Integer	01	1 .. 10	
329 — Transaction Set Control Number	1 .. 1	String	02	4 .. 9	

4 DETAILS MESSAGE

4.1 990 — Response to a Load Tender

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
┆ ST — Transaction Set Header - Response To a Load Tender	1 .. 1		010		
┆ B1 — Beginning Segment for Booking or Pick-up/Delivery	1 .. 1		020		
┆ N9 — Reference Identification	1 .. 1		030		
┆ N7 — Equipment Details	0 .. 1		036		
┆ K1 — Remarks	0 .. 10		060		
┆ SE — Transaction Set Trailer	1 .. 1		070		

Properties

Identifier 990

Name Response to a Load Tender

Cardinality min: 1 max: 1

4.2 ST [143 = "990"] — Transaction Set Header - Response To a Load Tender

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
ST — Transaction Set Header - Response To a Load Tender	1 .. 1		010		
143 — Transaction Set Identifier Code	1 .. 1	Token	01	3 .. 3	143
329 — 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 - Response To a Load Tender
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., 990 selects the Response to a Load Tender).

Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
143 Transaction Set Identifier Code	Code uniquely identifying a Transaction Set. Selected Values Code 990 Name Response To a Load Tender	Cardinality min: 1 max: 1 Primitive Type Token Length min: 3 max: 3 External Category Simple Data Element Data Type ID Position 01 Fixed Value 990 <hr/> Codelist Id 143 Type System ASC_X12 Version Mode Current Version 004010
329 Transaction Set Control Number	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	Cardinality min: 1 max: 1 Primitive Type String Length min: 4 max: 9 External Category Simple Data Element Data Type AN Position 02

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

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
├ B1 — Beginning Segment for Booking or Pick-up/Delivery	1 .. 1		020		
└ 145 — Shipment Identification Number	1 .. 1	String	02	1 .. 30	
└ 558 — Reservation Action Code	1 .. 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

Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
145 Shipment Identification Number	Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters). Comment 1 Not used in LBN	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 30 External Category Simple Data Element Data Type AN Position 02
558 Reservation Action Code	Code identifying action on reservation or offering. Selected Values Code A Name Reservation Accepted Code D Name Reservation Cancelled	Cardinality min: 1 max: 1 Primitive Type Token Length min: 1 max: 1 External Category Simple Data Element Data Type ID Position 04 <hr/> Codelist Id 558 Type System ASC_X12 Version Mode Current Version 004010

4.4 N9 — Reference Identification

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
├ N9 — Reference Identification	1 .. 1		030		
└ 128 — Reference Identification Qualifier	1 .. 1	Token	01	2 .. 3	128
└ 127 — Reference Identification - System Number	1 .. 1	String	02	1 .. 30	
└ C040 — Reference Identifier	0 .. 1		07		

Documentation

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

Properties

Identifier N9
Name Reference Identification
Cardinality min: 1 max: 1

Syntax Type Related

External Category Segment
Position 030
Level 2

Notes

Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
128 Reference Identification Qualifier	Code qualifying the Reference Identification. Usage 1 The Item ID Selected Values Code 06 Name System Number Code CN Name Carrier's Reference Number (PRO/Invoice)	Cardinality min: 1 max: 1 Primitive Type Token Length min: 2 max: 3 External Category Simple Data Element Data Type ID Position 01 Fixed Value 06 <hr/> Codelist Id 128 Type System ASC_X12 Version Mode Current Version 004010
127 [128 = "06"] Reference Identification - System Number	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. Comment 1 Sender system ID as given in ANSI X12 204 message, position L1101.	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 30 External Category Simple Data Element Data Type AN Position 02

4.5 C040 — Reference Identifier

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
├ N9 — Reference Identification	1 .. 1		030		
├ C040 — Reference Identifier	0 .. 1		07		
├ ┌ 128 — Reference Identification Qualifier	1 .. 1	Token	01	2 .. 3	128
├ └ 127 — Reference Identification	1 .. 1	String	02	1 .. 30	

Documentation

Definition To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Properties

Identifier C040
Name Reference Identifier
Cardinality min: 0 max: 1

Syntax Type Related

External Category Composite Data Structure
Position 07

Notes

Constraint 1 P0304 Paired Multiple - If any are used, all must be used
Constraint 2 P0506 Paired Multiple - If any are used, all must be used

Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
128 Reference Identification Qualifier	Code qualifying the Reference Identification Usage 1 The Item ID Selected Values Code IX Name Item Number	Cardinality min: 1 max: 1 Primitive Type Token Length min: 2 max: 3 External Category Simple Data Element Data Type ID Position 01 <hr/> Codelist Id 128 Type System ASC_X12 Version Mode Current Version 004010
127 Reference Identification	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 30 External Category Simple Data Element Data Type AN Position 02

4.6 N7 — Equipment Details

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
├ N7 — Equipment Details	0 .. 1		036		
└ 207 — Equipment Number	1 .. 1	String	02	1 .. 10	

Documentation

Definition To identify the equipment

Properties

Identifier N7

Name Equipment Details

Cardinality min: 0 max: 1

Syntax Type Related

External Category Segment

Position 036

Level 2

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
207 Equipment Number	Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 10 External Category Simple Data Element Data Type AN Position 02

4.7 K1 — Remarks

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
├ K1 — Remarks	0 .. 10		060		
└ 61 — Free-Form Message	1 .. 1	String	01	1 .. 30	

Documentation

Definition To transmit information in a free-form format for comment or special instruction

Properties

Identifier K1
Name Remarks
Cardinality min: 0 max: 10

Syntax Type Related

External Category Segment
Position 060
Level 2

Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
61 Free-Form Message	Free-form information	Cardinality min: 1 max: 1 Primitive Type String Length min: 1 max: 30 External Category Simple Data Element Data Type AN Position 01

4.8 SE — Transaction Set Trailer

Structure

Node	Card.	Prim.Type	Pos.	Length	Codelists
990 — Response to a Load Tender	1 .. 1				
└ SE — Transaction Set Trailer	1 .. 1		070		
└┘ 96 — Number of Included Segments	1 .. 1	Integer	01	1 .. 10	
└┘ 329 — 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 070
Level 2

Notes

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

Leaf Elements

Identifier/Name	Description/Notes/Code Values	Properties
96 Number of Included Segments	Total number of segments included in a transaction set including ST and SE segments.	Cardinality min: 1 max: 1 Primitive Type Integer Length min: 1 max: 10 Fraction Digits 0 Total Digits 10 External Category Simple Data Element Data Type N0 Position 01
329 Transaction Set Control Number	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	Cardinality min: 1 max: 1 Primitive Type String Length min: 4 max: 9 External Category Simple Data Element Data Type AN Position 02

5 COPYRIGHT STATEMENTS

5.1 Copyright Statement for MIG

See also: <https://www.sap.com/corporate/en/legal/copyright.html>

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