



INTERNAL

# Documentation of Digital Data Interchange via ANSI X.12 Standard

## QM214 (4010)

Transportation Carrier Shipment Status Message  
Inbound

Version: 1.6 Feb-19, 2024

# TABLE OF CONTENTS

<b>DOCUMENT REVISION HISTORY .....</b>	<b>3</b>
<b>PREFACE .....</b>	<b>4</b>
<b>INTRODUCTION .....</b>	<b>4</b>
<b>NOTES .....</b>	<b>4</b>
<b>USING THIS GUIDELINE .....</b>	<b>4</b>
<b>SEGMENT SUMMARY .....</b>	<b>5</b>
<b>DETAILED SEGMENT DESCRIPTION .....</b>	<b>7</b>
<b>DOCUMENTED EXAMPLE .....</b>	<b>30</b>
<b>APPENDIX – BRANCHING DIAGRAM .....</b>	<b>32</b>
<b>APPENDIX – CODELISTS .....</b>	<b>35</b>

## DOCUMENT REVISION HISTORY

Version	Date	Modification Details
1.0	May-31, 2017	Initial Draft
1.1	Feb-26, 2019	N405 + N406 – addition of State Code for countries other than US or CA AT7 – added important date/time information
1.2	Jan-12, 2022	Update of code list 26 Country Code
1.3	May-24, 2022	DETAILED SEGMENT DESCRIPTION – added How to Read Overview
1.4	Sep-30, 2022	Re-Branding
1.5	Feb-16, 2023	Re-Branding update
1.6	Feb-19, 2024	N404 26 Country Code – Country name change from Turkey to Türkiye (Code TR)

## PREFACE

This document outlines the requirements for digital data interchange using the ANSI X.12 format. Initially the used segments and their meaning within a message are described. The example files used in this guide are examples only. In the following chapter all segments are described in detail. Additionally, you will find a document example as well as a branching diagram.

This documentation focuses on an explicit version, i.e., the segments are documented as they would possibly occur in practice. Thus, the maximum number of repetitions of the individual segments is limited to the ones which are actually used. This does, however, not constitute a limitation, but rather a more detailed description of the example used.

## INTRODUCTION

This Draft Standard for Trial Use contains the format and establishes the data contents of the Transportation Carrier Shipment Status Message Transaction Set (214) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used by a transportation carrier to provide shippers, consignees, and their agents with the status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance.

## NOTES

SAP Business Network receives Transportation Carrier Shipment Status Messages by means of the cXML TransportConfirmation document conform to its rules.

As a service to Logistic Service Providers preferring to transact via EDI, SAP Business Network maps from the ANSI X12 004010 Transportation Carrier Shipment Status Message document. Logistic Service Providers can select ANSI X12 as their preferred method for sending Transportation Carrier Shipment Status Message documents.

SAP Business Network does not require or accept interchange acknowledgements (TA1) but does require a 997 to be returned for each functional group received (other than type FA).

## USING THIS GUIDELINE

The DETAILED SEGMENT DESCRIPTION shows the Standard X12 Rules, defined in 004010, and the User Rules, recommended by SAP Business Network.

Unused segments are not shown.

The codes defining in detail Segment and Element usages are:

Status	Standard Usage	SAP Business Network Usage
M	Mandatory	Must Use / Required by SAP Business Network
C	Conditional	Conditional
O	Optional	Optional
X	Not Used	Not Used

Descriptions for segments have been provided alongside and detailed explanation will follow in a future release.

**SEGMENT SUMMARY**

Below you will find a description of the used segments within the application and their interdependence.

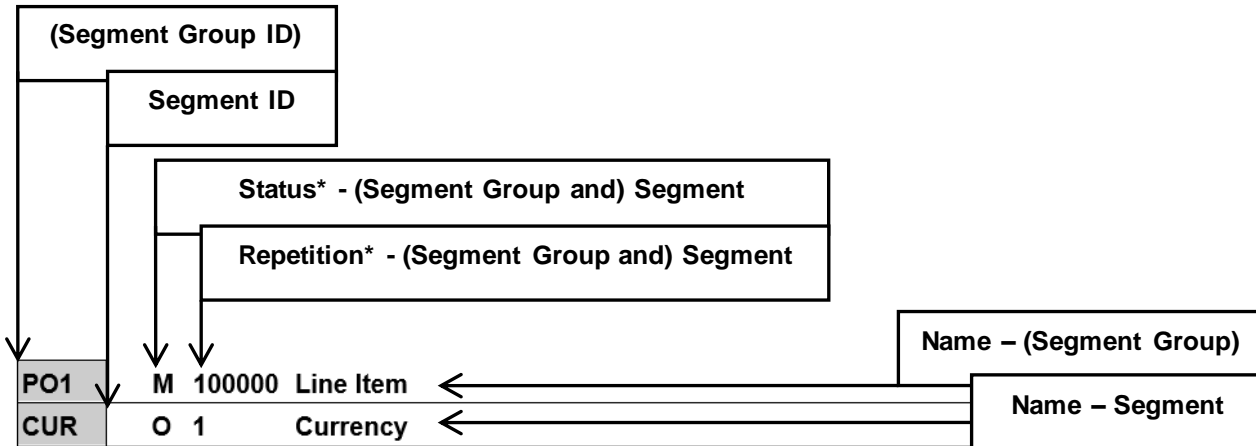
SegID	SegNo	Name
ISA	0	Interchange Control Header
GS	0	Functional Group Header
ST	10	Transaction Set Header
B10	20	Beginning Segment for Transportation Carrier Shipment Status Message
0100	LOOP	50 Party Identification
N1	50	Party Identification
N2	60	Party Additional Name Information
N3	70	Party Address Information
N4	80	Party Geographic Location
G61	90	Contact
0200	LOOP	130 Assigned Number
LX	130	Assigned Number
0205	LOOP	140 Shipment Status Details
AT7	140	Shipment Status Details
L11	150	Business Instructions and Reference Number
K1	170	Remarks
AT8	200	Shipment Weight, Packaging and Quantity Data
SE	610	Transaction Set Trailer
GE	0	Functional Group Trailer
IEA	0	Interchange Control Trailer

**DETAILED SEGMENT DESCRIPTION**

Below you will find an exact description of the used segment.  
The graphic describes the usage of the relevant information in this section.

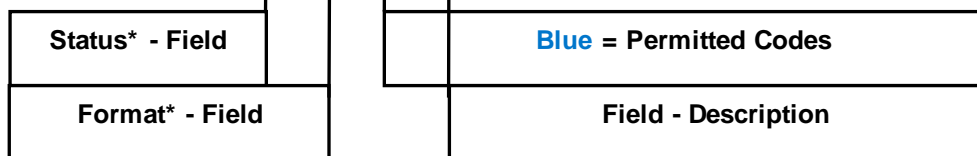
**Note:**

This example shows a CUR segment of the ANSI X12 850 4010 document, for illustrative purposes only.



Standard Usage				SAP Business Network Usage			
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<b>BY</b>	<i>Buying Party (Purchaser)</i>	
02	100	Currency Code	M ID 3/3	M ID 3/3		Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>USD US Dollar</i>	
03	280	Exchange Rate	O R 4/10	O R 4/10		Exchange rate	
04	98	Entity Identifier Code	O ID 2/3	O ID 2/3	<b>SE</b>	<i>Selling Party</i>	
05	100	Currency Code	O ID 3/3	O ID 3/3		Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>EUR Euro</i>	

**Example:** CUR\*BY\*USD\*0.900\*SE\*EUR~  
To specify the currency used in a transaction.



**Status\* - Definition**

M	Mandatory
C	Conditional
O	Optional
X	Not used

**Format\* - Definition**

AN	String. Alphanumerical and/or numerical chars. AN 1/30 1 to 30 chars. E.g., "Text 123".
ID	Code. Alphanumerical and/or numerical chars. ID 2/3 2 to 3 chars. E.g., "BY". ID 3/3 3 chars. E.g., "USD".
R	Decimal. Numerical chars, a decimal and a minus sign, if negative. R 1/4 1 to 4 numerical chars. E.g., "1.00", "1.234", ".1234", "-1.234".
Nn*	Numerical chars (and a minus sign). *n identifies the # of implied decimals. N0 1/4 1 to 4 numerical chars. E.g., "1", "123", "1234", "-1234". N2 1/4 1 to 4 numerical chars incl. 2 decimals. E.g., "1" = 0.01, "123" = 1.23, "1234" = 12.34, "-1234" = -12.34.
DT	Date. Alphanumerical chars. DT 6/8 Can be YYYYMMDD, or CCYYMMDD.
TM	Time. Alphanumerical chars. TM 4/8 Can be HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD.

**ISA M 1 Interchange Control Header**

Standard Usage				SAP Business Network Usage			
01	I01	Authorization Information Qualifier	M ID 2/2	M ID 2/2	00	<i>No Authorization Information Present (No Meaningful Information in I02)</i>	
02	I02	Authorization Information	M AN 10/10	M AN 10/10	10 empty spaces must be entered here as the ISA segment is space sensitive		
03	I03	Security Information Qualifier	M ID 2/2	M ID 2/2	00	<i>No Security Information Present (No Meaningful Information in I04)</i>	
04	I04	Security Information	M AN 10/10	M AN 10/10	10 empty spaces must be entered here as the ISA segment is space sensitive		
05	I05	Interchange ID Qualifier	M ID 2/2	M ID 2/2	Qualifier to designate the system/method of code structure used to designate the sender ID element being qualified. E. g. <i>ZZ Mutually Defined</i>		
06	I06	Interchange Sender ID	M AN 15/15	M AN 15/15	Sender identification number		
07	I05	Interchange ID Qualifier	M ID 2/2	M ID 2/2	Qualifier to designate the system/method of code structure used to designate the receiver ID element being qualified. E.g. <i>ZZ Mutually Defined</i>		
08	I07	Interchange Receiver ID	M AN 15/15	M AN 15/15	Receiver identification number		
09	I08	Interchange Date	M DT 6/6	M DT 6/6	Date of Interchange, format YYMMDD		
10	I09	Interchange Time	M TM 4/4	M TM 4/4	Time of Interchange, format HHMM		
11	I10	Interchange Control Standards Identifier	M ID 1/1	M ID 1/1	U	<i>U.S. EDI Community of ASC X12, TDCC, and UCS</i>	
12	I11	Interchange Control Version Number	M ID 5/5	M ID 5/5	00401	<i>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</i>	
13	I12	Interchange Control Number	M N0 9/9	M N0 9/9	A control number assigned by the interchange sender		
14	I13	Acknowledgment Requested	M ID 1/1	M ID 1/1	0	<i>No Acknowledgment Requested</i>	
15	I14	Usage Indicator	M ID 1/1	M ID 1/1	T P	<i>Test Data Production Data</i>	
16	I15	Component Element Separator	M AN 1/1	M AN 1/1	Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data separator and the segment terminator. >		



**ISA**      **M 1**      **Interchange Control Header**

**Example: ISA\*00\*      \*00\*      \*ZZ\*SenderID      \*ZZ\*ReceiverID      \*160111\*1400\*U\*00401\*00000001\*0\*T\*>~**

To start and identify an interchange of one or more functional groups and interchange-related control segments.

This Guideline describes the content of one message from ST-SE.

Please note that SAP Business Network supports multi-message handling along with more than one ST-SE per ISA-IEA and/or GS-GE loop.

Example:

```
ISA*00*      *00*      *ZZ*SenderID      *ZZ*ReceiverID      *160111*1314*U*00401*00000001*0*T*>~
GS*SH*SenderID*ReceiverID*20160111*1314*1*X*004010~
ST*856*0001~
...
SE*...*0001~
...
ST*856*0002~
...
SE*...*0002~
GE*2*1~
GS*IN*SenderID*ReceiverID*20160111*1314*2*X*004010~
ST*810*0003~
...
SE*...*0003~
GE*1*2~
IEA*2*00000001~
```

**GS C 1 Functional Group Header**

Standard Usage				SAP Business Network Usage		
01	479	Functional Identifier Code	M ID 2/2	M ID 2/2	<i>QM</i>	<i>Transportation Carrier Shipment Status Message (214)</i>
02	142	Application Sender's Code	M AN 2/15	M AN 2/15		Sender identification number
03	124	Application Receiver's Code	M AN 2/15	M AN 2/15		Receiver identification number
04	373	Date	M DT 8/8	M DT 8/8		Date expressed as format CCYYMMDD
05	337	Time	M TM 4/8	M TM 4/8		Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, 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)
06	28	Group Control Number	M N0 1/9	M N0 1/9		Assigned number originated and maintained by the sender, start with 1 and increment by 1 for each subsequent GS segment.
07	455	Responsible Agency Code	M ID 1/2	M ID 1/2	<i>X</i>	<i>Accredited Standards Committee X12</i>
08	480	Version / Release / Industry Identifier Code	M AN 1/12	M AN 1/12		<i>004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997</i>

**Example: GS\*QM\*SenderID\*ReceiverID\*20160111\*140059\*1\*X\*004010~**

To indicate the beginning of a functional group and to provide control information.

**ST**      **M 1**      **Transaction Set Header**

Standard Usage				SAP Business Network Usage			
01	143	Transaction Set Identifier Code	M	ID 3/3	M	ID 3/3	<i>214 Transportation Carrier Shipment Status Message</i>
02	329	Transaction Set Control Number	M	AN 4/9	M	AN 4/9	Identifying control number that must be unique within the transaction set.
<p><b>Example: ST*214*0001~</b> To indicate the start of a transaction set and to assign a control number.</p>							

<b>B10</b>	<b>M 1</b>	<b>Beginning Segment for Transportation Carrier Shipment Status Message</b>
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Standard Usage				SAP Business Network Usage		
01	127	Reference Identification	C AN 1/30	C AN 1/30		Transport confirmation number
02	145	Shipment Identification Number	O AN 1/30	O AN 1/30		Transport request number from 204 (B204)
03	140	Standard Carrier Alpha Code	M ID 2/4	M ID 2/4		Carrier identification number (SCAC)
<p><b>Example: B10*Transport Confirmation ID*Transport Request ID*SCAC~</b>                      To transmit identifying numbers and other basic data relating to the transaction set.</p> <p>B1002: The Transport request number should be used to return the Transport request number (B204) from the related Transport request 204.</p>						

<b>0100</b>	<b>O 1</b>	<b>Party Identification</b>
<b>N1</b>	<b>M 1</b>	<b>Party Identification</b>

Standard Usage			SAP Business Network Usage			
01	98	Entity Identifier Code	M	ID 2/3	M ID 2/3	<i>CA Carrier</i>
02	93	Name	C	AN 1/60	M AN 1/60	Party name
03	66	Identification Code Qualifier	C	ID 1/2	C ID 1/2	<i>1 D-U-N-S Number, Dun &amp; Bradstreet</i> <i>2 Standard Carrier Alpha Code (SCAC)</i> <i>4 International Air Transport Association (IATA)</i> <i>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix</i> <i>91 Assigned by Seller or Seller's Agent</i> <i>92 Assigned by Buyer or Buyer's Agent</i>
04	67	Identification Code	C	AN 2/80	C AN 2/80	Party identification number

**Example: N1\*CA\*Carrier Name\*2\*SCAC~**  
 To identify a party by type of organization, name and code.  
 Note: Currently only the Carrier Party Identification is supported.

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Note that next to N101 only the party name (N102) is actually required.  
 The postal address is built from segments N2, N3, and N4 and is optional in itself. See notes at the specific segments below.

<b>0100</b>	<b>O 1</b>	<b>Party Identification</b>
<b>N2</b>	<b>O 1</b>	<b>Party Additional Name Information</b>

Standard Usage			SAP Business Network Usage		
01	93	Name	M	AN 1/60	Party postal address name 1
02	93	Name	O	AN 1/60	Party postal address name 2
<p><b>Example: N2*Carrier AddrName 1*Carrier AddrName 2~</b>                      To specify additional names or those longer than 35 characters in length.                       If any element from a Postal Address Name via N2 segment is being provided, then one Street (N301), the City (N401) and the two-char ISO-3166 Country Code (N404) are all required. Therefore, N3 and N4 become mandatory.</p>					

<b>0100</b>	<b>O 1</b>	<b>Party Identification</b>
<b>N3</b>	<b>O 2</b>	<b>Party Address Information</b>

Standard Usage			SAP Business Network Usage		
01	166	Address Information	M	AN 1/55	Party street 1
02	166	Address Information	O	AN 1/55	Party street 2
<p><b>Example: N3*Carrier Street 1*Carrier Street 2~</b>                      To specify the location of the named party.</p> <p>If any element from a Postal Address Street via N3 segment is being provided, then the City (N401) and the two-char ISO-3166 Country Code (N404) are both required. Therefore, N4 becomes mandatory.</p>					

<b>0100</b>	<b>O 1</b>	<b>Party Identification</b>
<b>N4</b>	<b>O 1</b>	<b>Party Geographic Location</b>

Standard Usage			SAP Business Network Usage		
01	19	City Name	O	AN 2/30	O AN 2/30 Party city
02	156	State or Province Code	O	ID 2/2	O ID 2/2 Party state or province code* For addresses in the United States or Canada, use the two letter digraph recognized by the United States Postal Service or Canada Post. Please refer to APPENDIX - CODELISTS 156 State or Province Code.  *UserNote (State or province code)
03	116	Postal Code	O	ID 3/15	O ID 3/15 Party postal code Zip codes will be either five or nine digits with no separator. Canadian postal codes must be formatted A9A9A9, with no separator.
04	26	Country Code	O	ID 2/3	O ID 2/3 Party country code Identification of the name of the country or other geographical entity, use ISO 3166 two alpha country code. Please refer to APPENDIX - CODELISTS 26 Country Code.
05	309	Location Qualifier	C	ID 1/2	C ID 1/2 <i>SP State/Province*</i> *UserNote (State or province code)
06	310	Location Identifier	O	AN 1/30	O AN 1/30 Party state or province code* For addresses except in the United States or Canada. *UserNote (State or province code)

**Example: N4\*Carrier City\*\*ZIP\*AU\*SP\*NSW~**

To specify the geographic place of the named party.

If you are entering a Postal Address City or the two-char ISO-3166 Country Code via N4 segment, then one Street (N301) is required. Therefore, N3 becomes mandatory.

**\*UserNote (State or Province Code)**

If the country code (N404) is US or CA, then the state or province code (N402) is also required and must be a valid state or province digraph.

If the country code (N404) is not US or CA, then the state or province code must not be used on (N402). In that case the state or province code can optional be specified by using N406, always in combination with N405="SP".

**Examples:**

N4\*City\*CA\*ZIP\*US~

N4\*City\*\*ZIP\*AU\*SP\*NSW~



<b>0100</b>	<b>O 1</b>	<b>Party Identification</b>
<b>G61</b>	<b>O 1</b>	<b>Contact</b>

Standard Usage			SAP Business Network Usage			
01	366	Contact Function Code	M	ID 2/2	M ID 2/2	<i>CN</i> <i>General Contact</i>
02	93	Name	M	AN 1/60	M AN 1/60	Party contact name
03	365	Communication Number Qualifier	C	ID 2/2	C ID 2/2	<i>EM</i> <i>Electronic Mail</i> <i>FX</i> <i>Facsimile</i> <i>TE</i> <i>Telephone</i> <i>UR</i> <i>Uniform Resource Locator (URL)</i>
04	364	Communication Number	C	AN 1/80	C AN 1/80	Communication number
<p><b>Example: G61*CN*Carrier Contact Name*TE*Phone ID~</b> To identify a person or office to whom communications should be directed.</p>						

<b>0200</b>	<b>M 999999</b>	<b>Assigned Number</b>
<b>LX</b>	<b>M 1</b>	<b>Assigned Number</b>

Standard Usage		SAP Business Network Usage	
01 554	Assigned Number	M NO 1/6	M NO 1/6 Assigned number
<b>Example: LX*1~</b> To reference a line number in a transaction set.			

<b>0200</b>	<b>M 999999</b>	<b>Assigned Number</b>
<b>0205</b>	<b>M 10</b>	<b>Shipment Status Details</b>
<b>AT7</b>	<b>M 1</b>	<b>Shipment Status Details</b>

Standard Usage				SAP Business Network Usage			
01	1650	Shipment Status Code	C ID 2/2	M	ID 2/2	A3	<i>Rejected*</i>
						AV	<i>Collected</i>
						CA	<i>Cancelled</i>
						XB	<i>Accepted</i>
						*User Note (Rejected)	
02	1651	Shipment Status or Appointment Reason Code	C ID 2/2	M	ID 2/2	(AT7*XB) and (AT7*AV):	
						AM	<i>Shipper Related</i>
						AG	<i>Consignee Related</i>
						(AT7*CA): any valid code or	
						BG	<i>Other</i>
						(AT7*A3) Rejection reason code*	
						*User Note (Rejected)	
						Please refer to APPENDIX - CODELISTS	
						1651 Shipment Status or Appointment Reason Code.	
03	1652	Shipment Appointment Status Code	C ID 2/2	X			
04	1651	Shipment Status or Appointment Reason Code	C ID 2/2	X			
05	373	Date	C DT 8/8	C	DT 8/8		Date expressed as format CCYYMMDD
06	337	Time	C TM 4/8	C	TM 4/8		Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, 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).
07	623	Time Code	O ID 2/2	O	ID 2/2		Code identifying the time zone Please refer to APPENDIX - CODELISTS 623 Time Code.

**AT7**      **M 1**      **Shipment Status Details**

**Example:** AT7\*XB\*AM\*\*\*20160112\*1100\*CT~

To specify the status of a shipment, the reason for that status, the date and time of the status and the date and time of any appointments scheduled.

**Date/Time Note:**

Note that a completedate/time/zoneis recommended. Otherwise it will be automatically calculated and might lead to wrong data. Timestamps in cXML are represented as a date with a time, and an offset to UTC. If you do not specify a time, it will be taken as noon (12:00) on the date specified. If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).

AT7\*XB: Use status "Accepted" if the Transport request 204 is fully accepted.  
AT7\*AV: Use status "Collected" if the requested consignment is collected and ready to be shipped.

It is possible but not necessary to return information from the Transport request 204, e.g. reference numbers. It is recommended to provide updated or new information, such as transport related dates (AT703, AT705 - AT707), Carrier reference number (L11\*CN) and tracking information (L11\*\*2I) and/or dimensions (AT8).

Transport related dates should only be used if status is "Accepted" or "Collected".

**Departure location related dates (AT705 - AT707):**

AT7\*XB\*AM: If the status is "Accepted" use "Shipper Related" for the date to identify when the logistic provider expects to pick up the materials.  
AT7\*AV\*AM: If the status is "Collected" use "Shipper Related" for the actual pick-up date as it has occurred.

**Destination location related date (AT705 - AT707):**

AT7\*XB\*AG and AT7\*AV\*AG:: Use "Consignee Related" for the expected delivery date for the material to be received at the partner location.

**Example Accepted:**

AT7\*XB\*AM\*\*\*20160112\*1100\*CT~  
AT7\*XB\*AG\*\*\*20160113\*1200\*CT~  
L11\*Consignment ID\*CI~  
L11\*trackingNumber\*CN\*Carrier Shipment ID~  
L11\*201601111300\*2I\*Tracking URL~  
AT8\*G\*K\*400\*2\*\*X\*500~

**Example Collected:**

AT7\*AV\*AM\*\*\*20160112\*1102\*CT~  
AT7\*AV\*AG\*\*\*20160113\*1200\*CT~  
L11\*Consignment ID\*CI~  
L11\*trackingNumber\*CN\*Carrier Shipment ID~  
L11\*201601111300\*2I\*Tracking URL~  
AT8\*G\*K\*400\*2\*\*X\*500~

AT7\*CA: Use status "Cancelled" if the Transport request 204 is cancelled for any reason. AT02 is always required. You can use any valid code or hardcode at least "BG" for "Other". In this case no further optional content is required, but it is recommended to add the cancelation reason via free text (K1).

**Example Cancelled:**

AT7\*CA\*BG~  
L11\*Consignment ID\*CI~  
K1\*Goods are still in production\*Not ready to pick up~  
AT8\*\*\*\*2~

**AT7****M 1****Shipment Status Details**

AT7\*A3: Use status "Rejected" if the requested consignment can't be executed for a specific reason.

\*User Note (Rejected): In this case the Rejection reason (AT702) becomes mandatory.

No further optional content is required, but it is recommended to add the rejection reason via free text (K1).

Example Rejected:

AT7\*A3\*AK~

L11\*Consignment ID\*CI~

K1\*Carton lengths exceeds 4 mtr\*Pick-up refused~

AT8\*\*\*2~

<b>0200</b>	<b>M 999999 Assigned Number</b>
<b>L11</b>	<b>O 10 Business Instructions and Reference Number</b>

Standard Usage			SAP Business Network Usage			
01	127	Reference Identification	C	AN 1/30	C AN 1/30	Identification number  (L11**CN): Related type or domain of Carrier's Reference Number (L11**2I): Tracking number date (L11**ZZ): Mutually defined identification name for special usage  (L11**UN): If L1103=Hazard Description: Hardcode to "Hazard Description" If L1103=Hazard Classification (Code): Related type or domain
02	128	Reference Identification Qualifier	C	ID 2/3	C ID 2/3	<i>2I Tracking Number</i> <i>6A Consignee Reference Number</i> <i>BM Bill of Lading Number</i> <i>CI Unique Consignment Identifier</i> <i>CN Carrier's Reference Number (PRO/Invoice)</i> <i>MA Ship Notice/Manifest Number</i> <i>PO Purchase Order Number</i> <i>UN United Nations Hazardous Classification Number</i> <i>ZZ Mutually Defined</i>
03	352	Description	C	AN 1/80	C AN 1/80	(L11**CN): Carrier's reference number (L11**2I): Tracking URL (L11**ZZ): Mutually defined identification  (L11**UN): If L1101="Hazard Description": Hazard description text If L1103=Related type or domain: Hazard classification (code)

**L11**      **O 10**      **Business Instructions and Reference Number**

**Example: L11\*trackingNumber\*CN\*Carrier Shipment ID~**

To specify instructions in this business relationship or a reference number.

L1102=CI: The Unique Consignment Identifier is always required and must be returned from RFF+UCN of the related Transport request 204 from L11\*\*CI.

Example:

L11\*Consignment ID\*CI~

---

L1102=CN: Carrier's Reference Number (PRO/Invoice)

Use this segment to identify the carrier assigned shipment identifier in L1103.

In this case use L1101 to specify the related type or domain, e.g. trackingNumber.

Example:

L11\*trackingNumber\*CN\*Carrier Shipment ID~

---

L1102=2I: Tracking Number

Use this segment to provide the URL of the related tracking number (L11\*\*CN) in L1103.

In this case use L1101 to specify the related Tracking number date.

Example:

L11\*20160111\*2I\*Tracking URL Text'

---

L1102=UN: Hazard information: If hazard information is used, 2 segments L11\*\*UN are always required.

L11\*Hazard Description\*UN can be used for general dangerous goods description in L1103.

In this case hardcode L1101 to "Hazard Description".

L11\*Domain\*UN can be used for additional dangerous goods classification.

In this case use L1101 as a text identification to specify the domain responsible for the classification (code) in L1103.

Examples:

L11\*Hazard Description\*UN\*Hazard Description TEXT~

L11\*UNDG\*UN\*Hazard Classification~

or

L11\*Hazard Description\*UN\*Flammable liquids, toxic, n.o.s~

L11\*UNDG\*UN\*1992~

---

Special reference numbers related to this transport request and the transport logistic process chain:

L1102=BM: The Bill of Lading Number

L1102=6A: The Consignee Reference Number

Examples:

L11\*Bill Of Lading ID\*BM~

L11\*Consignee Reference ID\*6A~

---

Optional document message numbers and dates from former messages related to this transport request within the whole process chain and further optional reference numbers and dates related to former messages, such as:

L1102=AH: The Agreement Number

L1102=PO: The Purchase Order Number to relate to a former 850

L1102=MA: The Ship Notice/Manifest Number

**L11**      **O 10**      **Business Instructions and Reference Number**

Examples:  
L11\*Agreement ID\*AH~  
L11\*Purchase Order ID\*PO~  
L11\*Ship Notice ID\*MA~  

---

Mutually Defined Information:  
L11\*\*ZZ contains information mutually defined by the trading partner. In this case L1101 is used as identification name to specify the mutually defined identification provided in L1103. Please note L1103 is not required.  
For various business cases it is sufficient to transmit only the mutually defined name identification by itself.

Example:  
L11\*MutuallyDefinedIDName\*ZZ~  
L11\*MutuallyDefinedIDName\*ZZ\*Mutually Defined Identification~



<b>0200</b>	<b>M</b>	<b>999999</b>	<b>Assigned Number</b>
<b>K1</b>	<b>O</b>	<b>10</b>	<b>Remarks</b>

Standard Usage				SAP Business Network Usage			
01	61	Free-Form Message	M AN 1/30	M AN 1/30	Free text 1		
02	61	Free-Form Message	O AN 1/30	O AN 1/30	Free text 2		
<p><b>Example: K1*Rejection Reason TEXT1*Rejection Reason TEXT1~</b>                      To transmit information in a free-form format for comment or special instruction.</p> <p>It is recommended to use this segment for a detailed reason description if the status is "Cancelled" or "Rejected".</p> <p>Example Cancelled:                      K1*Goods are still in production*Not ready to pick up~                      K1*Rejection Reason TEXT3*TEXT4~</p> <p>Example Rejected:                      K1*Carton lengths exceeds 4 mtr*Pick-up refused~                      K1*Cancelation Reason TEXT3*TEXT4~</p>							

<b>0200</b>	<b>M 999999</b>	<b>Assigned Number</b>
<b>AT8</b>	<b>M 10</b>	<b>Shipment Weight, Packaging and Quantity Data</b>

Standard Usage			SAP Business Network Usage			
01	187	Weight Qualifier	C	ID 1/2	C ID 1/2	<i>G Gross Weight</i> <i>N Actual Net Weight</i> <i>U Weight Per Unit</i>
02	188	Weight Unit Code	C	ID 1/1	C ID 1/1	<i>E Metric Ton</i> <i>G Grams</i> <i>K Kilograms</i> <i>L Pounds</i> <i>O Ounces</i> <i>T</i>
03	81	Weight	C	R 1/10	C R 1/10	Total weight
04	80	Lading Quantity	O	N0 1/7	M N0 1/7	Total number of packages
05	80	Lading Quantity	O	N0 1/7	X	
06	184	Volume Unit Qualifier	C	ID 1/1	C ID 1/1	<i>B Barge</i> <i>C Cubic Centimeters</i> <i>E Cubic Feet</i> <i>F 100 Board Feet</i> <i>G Gallons</i> <i>L Load</i> <i>M Cubic Decimeters</i> <i>N Cubic Inches</i> <i>R Car</i> <i>T Container</i> <i>V Liter</i> <i>X Cubic Meters</i>
07	183	Volume	C	R 1/8	C R 1/8	Total volume

**Example: AT8\*G\*K\*400\*2\*\*X\*500~**  
To specify shipment details in terms of weight and quantity of handling units.  
If Weight is used the type (AT801), the unit code (AT802) and value (AT803) are always required.  
If Volume is used the unit code (AT806) and value (AT807) are always required.

**SE**      **M 1**      **Transaction Set Trailer**

Standard Usage				SAP Business Network Usage		
01	96	Number of Included Segments	M NO 1/10	M	NO 1/10	Total number of segments included in a transaction set including ST and SE segments.
02	329	Transaction Set Control Number	M AN 4/9	M	AN 4/9	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.
<p><b>Example: SE*13*0001~</b></p> <p>To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).</p>						

**GE**      **C 1**      **Functional Group Trailer**

Standard Usage				SAP Business Network Usage			
01	97	Number of Transaction Sets Included	M	N0 1/6	M	N0 1/6	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.
02	28	Group Control Number	M	N0 1/9	M	N0 1/9	Assigned number originated and maintained by the sender.
<p><b>Example: GE*1*1~</b> To indicate the end of a functional group and to provide control information.</p>							

**IEA**      **M 1**      **Interchange Control Trailer**

Standard Usage				SAP Business Network Usage			
01	I16	Number of Included Functional Groups	M	N0 1/5	M	N0 1/5	A count of the number of functional groups included in an interchange.
02	I12	Interchange Control Number	M	N0 9/9	M	N0 9/9	A control number assigned by the interchange sender.
<p><b>Example: IEA*1*00000001~</b> To define the end of an interchange of zero or more functional groups and interchange-related control segments.</p>							

**DOCUMENTED EXAMPLE**

Below you will find an example message.

**Note that the example is for illustrative purpose only, filled with comprehensible dummy values and must not to be understood as real messages.**

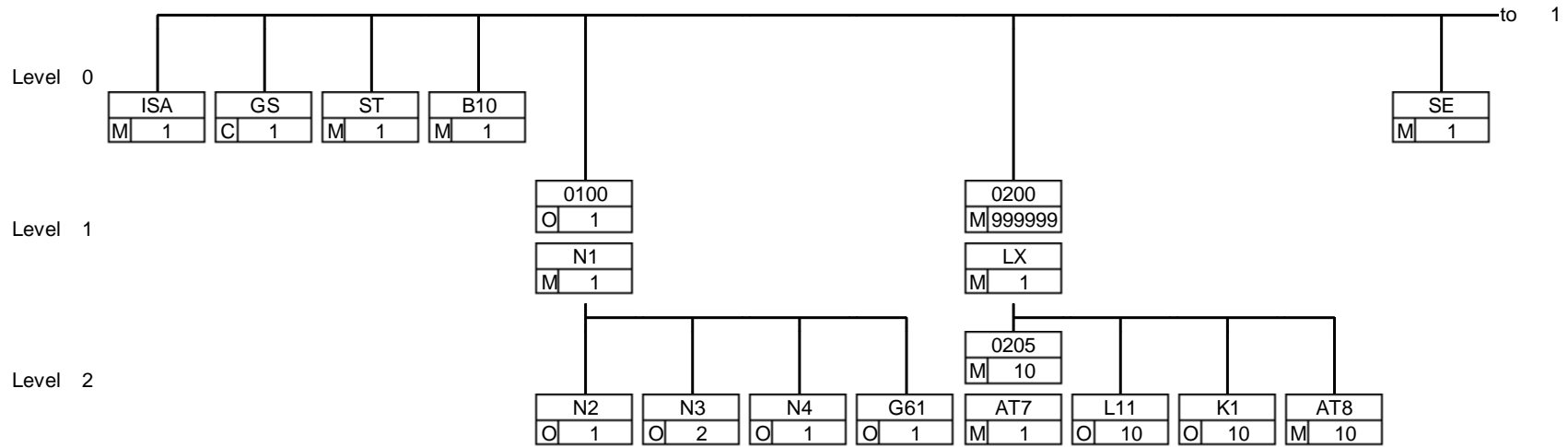
### Example

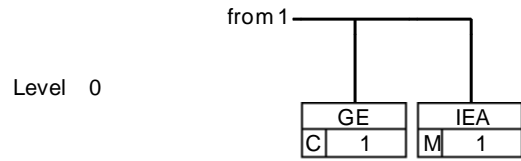
```
ISA*00*      *00*      *ZZ*SenderID  *ZZ*ReceiverID  *160111*1400*U*00401*000000001*0*T*>~  
GS*QM*SenderID*ReceiverID*20160111*140059*1*X*004010~  
ST*214*0001~  
B10*Transport Confirmation ID*Transport Request ID*SCAC~  
N1*CA*Carrier Name*2*SCAC~  
N2*Carrier AddrName 1*Carrier AddrName 2~  
N3*Carrier Street 1*Carrier Street 2~  
N4*Carrier City**ZIP*AU*SP*NSW~  
G61*CN*Carrier Contact Name*TE*Phone ID~  
LX*1~  
AT7*XB*AM***20160112*1100*CT~  
L11*trackingNumber*CN*Carrier Shipment ID~  
K1*Rejection Reason TEXT1*Rejection Reason TEXT1~  
AT8*G*K*400*2**X*500~  
SE*13*0001~  
GE*1*1~  
IEA*1*000000001~
```

**APPENDIX – BRANCHING DIAGRAM**

Below you will find a branching diagram for the message which graphically outlines the hierarchical structure and the interdependence between the different segments.







## APPENDIX – CODELISTS

### 26 Country Code

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

AF	Afghanistan
AD	Andorra
AE	United Arab Emirates
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antiles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AX*	Åland Islands
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BL*	Saint Barthélemy
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BQ*	Bonaire, Sint Eustatius and Saba
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize

**26 Country Code**

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

CA	Canada
CC	Cocos (Keeling) Islands
CD*	Congo, The Democratic Republic of the
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CW*	Curaçao
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon

**26 Country Code**

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GG*	Guernsey
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IM*	Isle of Man
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran, Islamic Republic of
IS	Iceland
IT	Italy
JE*	Jersey
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan

**26 Country Code**

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldova
ME*	Montenegro
MF*	Saint Martin (French Part)
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macao
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi

**26 Country Code**

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PS*	Palestine, State of
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Reunion
RO	Romania
RS*	Serbia
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan

**26 Country Code**

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

SE	Sweden
SG	Singapore
SH	Saint Helena, Ascension and Tristan Da Cunha
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
SS*	South Sudan
ST	Sao Tome and Principe
SV	El Salvador
SX*	Sint Maarten (Dutch Part)
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL*	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Türkiye
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan



**26 Country Code**

\*Note that SAP Business Network supports codes from higher ANSI X12 versions.  
If one of these codes is used, please make sure that the system of your business partner can process it.

VA	Holy See (Vatican City State)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands, British
VI	Virgin Islands, U.S.
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa
XK**	Kosovo ** (Temporary country code for Kosovo till ISO officially assigns a code. If this code is to be used please make sure that the system of your business partner can also process it)
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

**156 State or Province Code**

AB	Alberta
AK	Alaska
AL	Alabama
AR	Arkansas
AS	American Samoa
AZ	Arizona
BC	British Columbia
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia
DE	Delaware
FL	Florida
FM	Federated States of Micronesia
GA	Georgia
GU	Guam
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas

<b>156 State or Province Code</b>	
KY	Kentucky
LA	Louisiana
MA	Massachusetts
MB	Manitoba
MD	Maryland
ME	Maine
MH	Marshall Islands
MI	Michigan
MN	Minnesota
MO	Missouri
MP	Northern Mariana Islands
MS	Mississippi
MT	Montana
NB	New Brunswick
NC	North Carolina
ND	North Dakota
NE	Nebraska
NF	Newfoundland
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NS	Nova Scotia
NT	Northwest Territories
NU	Nunavut
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
ON	Ontario
OR	Oregon
PA	Pennsylvania
PE	Prince Edward Island
PR	Puerto Rico
PW	Palau
QC	Quebec
RI	Rhode Island
SC	South Carolina
SD	South Dakota
SK	Saskatchewan
TN	Tennessee
TX	Texas
UT	Utah
VA	Virginia

**156 State or Province Code**

VI	Virgin Islands
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming
YT	Yukon

**623 Time Code**

01	Equivalent to ISO P01
02	Equivalent to ISO P02
03	Equivalent to ISO P03
04	Equivalent to ISO P04
05	Equivalent to ISO P05
06	Equivalent to ISO P06
07	Equivalent to ISO P07
08	Equivalent to ISO P08
09	Equivalent to ISO P09
10	Equivalent to ISO P10
11	Equivalent to ISO P11
12	Equivalent to ISO P12
13	Equivalent to ISO M12
14	Equivalent to ISO M11
15	Equivalent to ISO M10
16	Equivalent to ISO M09
17	Equivalent to ISO M08
18	Equivalent to ISO M07
19	Equivalent to ISO M06
20	Equivalent to ISO M05
21	Equivalent to ISO M04
22	Equivalent to ISO M03
23	Equivalent to ISO M02
24	Equivalent to ISO M01
AD	Alaska Daylight Time
AS	Alaska Standard Time
AT	Alaska Time
CD	Central Daylight Time
CS	Central Standard Time
CT	Central Time
ED	Eastern Daylight Time
ES	Eastern Standard Time
ET	Eastern Time
GM	Greenwich Mean Time

**623 Time Code**

HD	Hawaii-Aleutian Daylight Time
HS	Hawaii-Aleutian Standard Time
MD	Mountain Daylight Time
MS	Mountain Standard Time
MT	Mountain Time
ND	Newfoundland Daylight Time
NS	Newfoundland Standard Time
NT	Newfoundland Time
PD	Pacific Daylight Time
PS	Pacific Standard Time
PT	Pacific Time
TD	Atlantic Daylight Time
TS	Atlantic Standard Time
TT	Atlantic Time
UT	Universal Time Coordinate

**1651 Shipment Status or Appointment Reason Code**

A1	Missed Delivery
A2	Incorrect Address
A3	Indirect Delivery
A5	Unable to Locate
A6	Address Corrected - Delivery Attempted
AA	Mis-sort
AD	Customer Requested Future Delivery
AE	Restricted Articles Unacceptable
AF	Accident
AG	Consignee Related
AH	Driver Related
AI	Mechanical Breakdown
AJ	Other Carrier Related
AK	Damaged, Rewrapped in Hub
AL	Previous Stop
AM	Shipper Related
AN	Holiday - Closed
AO	Weather or Natural Disaster Related
AP	Awaiting Export
AQ	Recipient Unavailable - Delivery Delayed
AR	Improper International Paperwork
AS	Hold Due to Customs Documentation Problems
AT	Unable to Contact Recipient for Broker Information
AU	Civil Event Related Delay
AV	Exceeds Service Limitations
AW	Past Cut-off Time

1651 Shipment Status or Appointment Reason Code	
AX	Insufficient Pick-up Time
AY	Missed Pick-up
AZ	Alternate Carrier Delivered
B1	Consignee Closed
B2	Trap for Customer
B4	Held for Payment
B5	Held for Consignee
B8	Improper Unloading Facility or Equipment
B9	Receiving Time Restricted
BB	Held per Shipper
BC	Missing Documents
BD	Border Clearance
BE	Road Conditions
BF	Carrier Keying Error
BG	Other
BH	Insufficient Time to Complete Delivery
BI	Cartage Agent
BJ	Customer Wanted Earlier Delivery
BK	Prearranged Appointment
BL	Held for Protective Service
BM	Flatcar Shortage
BN	Failed to Release Billing
BO	Railroad Failed to Meet Schedule
BP	Load Shifted
BQ	Shipment Overweight
BR	Train Derailment
BS	Refused by Customer
BT	Returned to Shipper
C1	Waiting for Customer Pick-up
C2	Credit Hold
C3	Suspended at Customer Request
C4	Customer Vacation
C5	Customer Strike
C6	Waiting Shipping Instructions
C7	Waiting for Customer Specified Carrier
C8	Collect on Delivery Required
C9	Cash Not Available From Consignee
CA	Customs (Import or Export)
CB	No Requested Arrival Date Provided by Shipper
CC	No Requested Arrival Time Provided by Shipper
D1	Carrier Dispatch Error
D2	Driver Not Available
F1	Non-Express Clearance Delay

<b>1651 Shipment Status or Appointment Reason Code</b>	
F2	International Non-carrier Delay
HB	Held Pending Appointment
NA	Normal Appointment
NS	Normal Status
P1	Processing Delay
P2	Waiting Inspection
P3	Production Falldown
P4	Held for Full Carrier Load
RC	Reconsigned
S1	Delivery Shortage
T1	Tractor With Sleeper Car Not Available
T2	Tractor, Conventional, Not Available
T3	Trailer not Available
T4	Trailer Not Usable Due to Prior Product
T5	Trailer Class Not Available
T6	Trailer Volume Not Available
T7	Insufficient Delivery Time

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