HAMBURG SÜD

ASC X12 Release 4010

322
Terminal Operations and Intermodal Ramp Activity

Message Implementation Guide

Version 1.0.0

Change history

Version	Date	Comments
1.0.0	20-Jul-2016	Initial version

Contact our eCommerce team:

Hamburg Süd
Customer Order Management

Willy-Brandt-Str. 59-61
20457 Hamburg
Germany

Email: ecommerce@hamburgsud.com

Contents

1 Audience

This document is intended for business, technical and EDI personnel engaged in establishing an electronic connection with Hamburg Süd for the purpose of exchanging status messages for container movements via ASC X12 322 Release 4010.

The following chapters provide information regarding General Conventions and Message Specifications to receive rail events from the rail road providers.

2 General Information

2.1 Terminology

Within this manual specific terminology will be used that you may not be familiar with. In order to give you some guidance, please find below the most important EDI terms and their according definitions.

Directory

An EDI directory is published three times a year and versioned. The version number is a four digit numeric code that is incremented by each release. The specifications within this manual conform to the directory approved by the ASC X12 Board in October 1997 the directory code of X12-4010.

Each directory contains sub-directories for messages, segments, composites and data elements, all of which may change with directory versions. However, since a directory version is permanent, there is no need to update computer applications when specific directory has been adopted.

Interchange

An interchange is a group of messages that are sent in one transmission. This means that it is possible to have more than one message within an interchange.

Message

A message can be described as a business transaction. Therefore, where appropriate, a message is often referred to as a transaction rather than a message. A transaction could be a new entry, a new line, a change to a line, a cancellation of line etc.
A full list of messages can be retrieved from a sub-directory within all directory versions, called the message directory. Each message has its own description and structure, which may differ by directory version.

Segment

A segment is uniquely identified by a three character mnemonic tag, which is used as a reference to a common group of business information. Usually this defines one segment contains one item of business data (i.e. field or attribute). For example Place of Origin, Port of Loading, Port of Discharge are all locations. The segment used for location is called R4. There are, however, segments that include more than one item of business data. For example Transport Mode, Equipment details are all classified as transport details included in the respective segment.

Whilst a message has a standard structure of segments, there is also a separate subdirectory for segments within directory versions, known as the segment directory. Each segment has its own description and structure, which may differ by directory version.

Service Segment

A service segment is a segment that contains non-business related data. These segments usually include interchanges and messages, in the form of headers and trailers. For example ISA and GS are typical service segments.

Segment Group

A segment group is a collection of segments that are related within a message structure. A simple example would be a group for details of transport. This would typically include a segment for the equipment details (using W2), reference (using N9) and the locations (using R4).

Composite Element

A composite element is a lower level of detail to identify business data within segment. It is normally used when a data item requires addition information. Each composite element has a unique code identifying it. A composite element could be used, for example when a data item is in the form of a code and it requires a type qualifier and also organization responsible for its maintenance.

Whilst a segment has a standard structure, there is also a separate subdirectory for composite elements within directory versions, known as the composite data element directory. Each composite element has its own description and structure, which may differ within directory version.

Data Element

A data element is the lowest level within the EDI structure for holding data. Each data element has a unique code identifying it. A data element can exist as a stand-alone element or as a sub-element within a composite element.

There is also a separate sub-directory for data elements within directory versions, known as the data element directory. Like many other sub-directories, the data element sub-directory contains descriptions and other information. In addition, some data elements also have associated code lists, which are published by organizations such as the International Standards Organization (ISO), or the United Nations. However, it is often possible for trading partners to use their own code list.

2.2 Processing Guidelines

Hamburg Süd is requesting to receive equipment status events via 322 messages from the rail road providers. A single message may contain several transactions.

EDI communication depends on Trading Partnership and will be mutually defined within a separate agreement. Common protocols for the transmission of messages are e.g. FTP or SFTP.

2.3 Functional Description

Usage of Date / Time information in the Q5 segment

In general the date and time given in the Q5 segment are defining when the reported event occurred in the segment Q501. In case the event status code “NF” is reported the given date and time will be assumed as the last free day expiration date and time.

Format of Time information in segments

Hamburg Süd expects that all events are reported in local time (event location).

Equipment identification

Hamburg Süd is expecting that not only the equipment number is sent, but also its check digit.

Reporting of estimates

Hamburg Süd is expecting to receive the estimate for the Arrival at Destination. In addition we expect to receive an updated estimate date and time for the Arrival at Destination as well as for the Delivery. This information should be sent as separate DTM segments in the N7 loop.

Location Qualifier

Hamburg Süd is only supporting United Nations Location Code (UNLOCODE) or City names. Whenever possible the UNLOCODE should be sent within the R4 segment.

2.4 Status Indicators and Usage Indicators

2.4.1 Status Indicators

Status Indicators (“M” and “C”) form part of the ANSI X12 standard and indicate a minimum requirement to fulfill the needs of the message structure. They are not adequate for implementation purposes.
The Status Indicators are:

Value	Description
M	Mandatory The entity marked as such must appear in all messages, and apply to these messages as well as to any associated implementation guidelines (and consequently is also a Usage Indicator).
C	Conditional The entity is used by agreement between trading partners

2.4.2 Usage Indicators

Usage Indicators are implementation–related indicators that further detail the use of “Conditional” Status Indicators. Usage Indicators are applied at all levels of the guidelines and shown adjacent to data items such as segment groups, segments, composite data elements and simple data elements. They dictate the agreed usage of the data items or entities.
The Usage Indicators are:

Value	Description
M	Mandatory Indicates the item is mandatory in the UN/EDIFACT message.
R	Required Indicates the item must be transmitted in this implementation.
D	Dependent Indicates that the use of the item is depending on a well-defined condition or set of conditions. These conditions must be clearly specified in the relevant implementation guideline.
O	Optional Indicates that this item is at the need or discretion of both trading partners.
X	Not Used Indicates that this item is not used in this implementation. If present, it will be disregarded.
NA	Not Recommended (Advised) Indicates the item needn’t be transmitted in this implementation.
A	Advised Indicates the item must is recommended to be transmitted in this implementation.

Where an item within a segment group, segment or composite data element is marked with Usage Indicators “M” or “R”, but the segment group, segment or composite data element has been marked “O” or “D” (or for that matter “X”), the item is only to be transmitted when the segment group, segment or composite of which it is a part, is used.

2.4.3 Format

The format is used to describe the official format requirements within ASC X12-4010 directory.

Examples

a3	3 alphabetic characters, fixed length
n6	3 numeric characters, fixed length
an5	5 alphanumeric characters, fixed length
a..6	up to 6 alphabetic characters
an..35	up to 35 alphabetic characters
n..6	up to 6 numeric characters

3 ANSI X12 322 segment table of contents

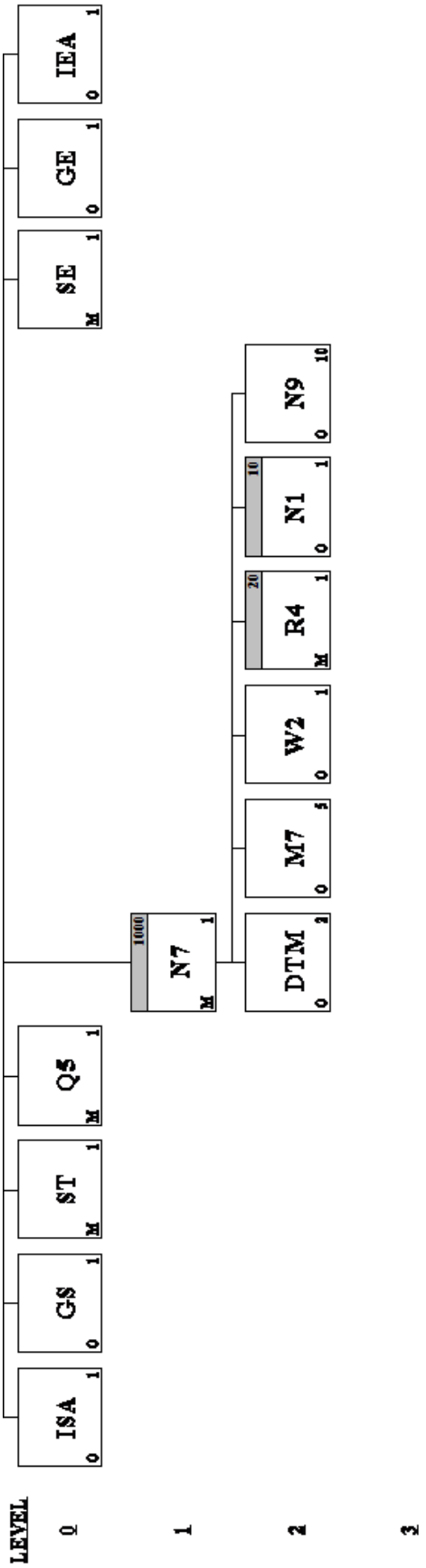
Functional Group ID=SO

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Terminal Operations and Intermodal Ramp Activity Transaction Set (322) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide all the information necessary for a terminal operation, port authority or intermodal ramp to communicate terminal and intermodal ramp activities (e.g., "ingates" and "outgates") to authorized parties to a shipment.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	001	ISA	Interchange Control Header	O	1		
	002	GS	Functional Group Header	O	1		
	010	ST	Transaction Set Header	O	1		
X	015	ZC1	Beginning Segment for Data Correction or Change	O	1		
M	016	Q5	Status Details	M	1		
			LOOP ID - N7			1000	
M	020	N7	Equipment Details	M	1		
X	030	V4	Cargo Location Reference	O	1		
	040	DTM	Date/Time Reference	O	3		
	050	M7	Seal Numbers	O	5		
X	060	W09	Equipment and Temperature	O	1		
	070	W2	Equipment Identification	O	1		
X	080	NA	Cross-Reference Equipment	O	30		
X	085	GR5	Loading Details	O	10		
X	100	Y7	Priority	O	1		
X	110	V1	Vessel Identification	O	1		
			LOOP ID - R4			20	
M	120	R4	Port or Terminal	M	1		
X	130	DTM	Date/Time Reference	O	15		
X	140	H3	Special Handling Instructions	O	6		
			LOOP ID - N1			10	
	150	N1	Name	O	1		
X	153	N3	Address Information	O	2		
X	156	N4	Geographic Location	O	1		
X	160	K1	Remarks	O	2		
	170	N9	Reference Identification	O	10		
			LOOP ID - L0			999	
X	180	L0	Line Item - Quantity and Weight	O	1		
X	190	L5	Description, Marks and Numbers	O	1		
X	200	H1	Hazardous Material	O	3		
X	210	L3	Total Weight and Charges	O	2		
M	220	SE	Transaction Set Trailer	M	1		
	230	GE	Functional Group Trailer	O	1		
	240	IEA	Interchange Control Trailer	O	1		

4 Branch Diagram



5 Segment Description

Segment: **ISA** **Interchange Control Header**
Position: 001
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments
Comments:
Notes: Example Syntax

ISA*00* *00* *ZZ*HAMSUD *ZZ*PARTNERID *160526*2245*U*00401*053849086*0*P*>~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information Accepted values: 00 No Authorization Information Present (No Meaningful Information in I02)	**M ID 2/2**
M	**ISA02**	**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)	**M AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code to identify the type of information in the Security Information Accepted values: 00 No Security Information Present (No Meaningful Information in I04)	**M ID 2/2**
M	**ISA04**	**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)	**M AN 10/10**
M	**ISA05**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Accepted values: ZZ Mutually Defined	**M ID 2/2**
M	**ISA06**	**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 Trading Partner ID	**M AN 15/15**
M	**ISA07**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Accepted values: ZZ Mutually Defined	**M ID 2/2**

M	**ISA08**	**I07**	**Interchange Receiver ID**	**M**	**AN 15/15**
			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		
			Accepted values:		
			HAMSUD Hamburg Süd Receiver ID		
M	**ISA09**	**I08**	**Interchange Date**	**M**	**DT 6/6**
			Date of the interchange		
			Format YYMMDD Example: 160526 (26th May 2016)		
M	**ISA10**	**I09**	**Interchange Time**	**M**	**TM 4/4**
			Time of the interchange		
			Format HHMM Example: 2245 (10:45 pm)		
M	**ISA11**	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**
			Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer		
			Accepted values:		
			U U.S. EDI Community of ASC X12, TDCC, and UCS		
M	**ISA12**	**I11**	**Interchange Control Version Number**	**M**	**ID 5/5**
			This version number covers the interchange control segments		
			Accepted values:		
			00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997		
M	**ISA13**	**I12**	**Interchange Control Number**	**M**	**N0 9/9**
			A control number assigned by the interchange sender		
M	**ISA14**	**I13**	**Acknowledgment Requested**	**M**	**ID 1/1**
			Code sent by the sender to request an interchange acknowledgment (TA1)		
			Accepted values:		
			0 No Acknowledgment Requested		
M	**ISA15**	**I14**	**Usage Indicator**	**M**	**ID 1/1**
			Code to indicate whether data enclosed by this interchange envelope is test, production or information		
			Accepted values:		
			P Production Data		
M	**ISA16**	**I15**	**Component Element Separator**	**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 element separator and the segment terminator		

Segment: **GS** **Functional Group Header**
Position: 002
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: 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.
Notes: Example Syntax

GS*SO*SENDERID*HAMSUD*20160526*224500*1000*X*004010~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets Accepted values: SO Ocean Shipment Information (322)	**M ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners Trading Partner's ID	**M AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners Accepted values: HAMSUD Hamburg Süd Receiver ID	**M AN 2/15**
M	**GS04**	**373**	**Date** Date expressed as CCYYMMDD Example: 20160526 (26th May 2016)	**M DT 8/8**
M	**GS05**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) Example: 224529 (10:45:29 pm)	**M TM 4/8**
M	**GS06**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M N0 1/9**
M	**GS07**	**455**	**Responsible Agency Code** Code used in conjunction with Data Element 480 to identify the issuer of the standard Accepted values: X Accredited Standards Committee X12	**M ID 1/2**
M	**GS08**	**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	**M AN 1/12**

Accepted values:	
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Comments:
Notes: Example Syntax

ST*322*0001~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Accepted values: 322 Terminal Operations and Intermodal Ramp Activity	**M ID 3/3**
M	**ST02**	**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	**M AN 4/9**

Segment: **Q5** **Status Details**
Position: 016
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To specify the status of the shipment in terms of dates, time, reference numbers, and location
Comments:
Notes: Example Syntax

Q5*I*20100802*091200*LT**SALT LAKE CITY~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**Q501**	**157**	**Shipment Status Code** Code indicating the status of a shipment Please refer to the status event codes list in the appendix.	**M**	**ID 1/2**
M	**Q502**	**373**	**Date** Date expressed as CCYYMMDD Example: 20160526 (26th May 2016)	**M**	**DT 8/8**
M	**Q503**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) Example: 224500 (10:45:00 pm)	**M**	**TM 4/8**
M	**Q504**	**623**	**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 Accepted values: LT Local Time	**M**	**ID 2/2**
M	**Q506**	**19**	**City Name** Free-form text for city name	**M**	**AN 2/30**
	Q507	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID 2/2**
	Q508	**26**	**Country Code** Code identifying the country	**O**	**ID 2/3**

Segment: **N7** **Equipment Details**
Position: 020
Loop: N7 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify the equipment
Comments: **1** N701 is mandatory for rail transactions.
2 N720 and N721 are expressed in inches.
Notes: Example Syntax

N7*HASU*431617*43459*G*******CN*BNSF*****L*0****451G*BNSF~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N701**	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number	**M AN 1/4**
M	**N702**	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) This element should contain the container number without the check digit! Please report check digit in N718!	**M AN 1/10**
	N703	**81**	**Weight** Numeric value of weight	**X R 1/10**
	N704	**187**	**Weight Qualifier** Code defining the type of weight Accepted values: CE Certified Weight of Cargo E Estimated Net Weight G Gross Weight N Actual Net Weight	**X ID 1/2**
	N711	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment Accepted values: CC Container resting on a Chassis CN Container CZ Refrigerated Container	**O ID 2/2**
	N712	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code	**O ID 2/4**
	N717	**188**	**Weight Unit Code** Code specifying the weight unit K Kilograms L Pounds	**O ID 1/1**
	N718	**761**	**Equipment Number Check Digit** Number which designates the check digit applied to a piece of equipment	**O N0 1/1**
	N719	**56**	**Type of Service Code** Code specifying extent of transportation service requested	**O ID 2/2**

N722	**24**	**Equipment Type** Code identifying equipment type ISO Equipment Type Code according to ISO 6346:1995 (preferred) or ISO 6346:1984	**O**	**ID 4/4**
N723	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code	**O**	**ID 2/4**

Segment: **DTM** **Date/Time Reference**
Position: 040
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 3
Purpose: To specify pertinent dates and times
Comments:
Notes: Example Syntax

DTM*371*20160702*091200*LT~

Hamburg Süd expects up to 3 DTMs to receive ETA information. The ETA date and time are linked to the destination location (R4*7).

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier**		**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time			
			Accepted values:			
			017	Estimated Delivery		
				When the equipment will be available for pickup		
			371	Estimated Arrival Date		
				Estimated Arrival Date at destination rail ramp		
			830	Schedule		
				Original ETA		
M	**DTM02**	**373**	**Date**		**M**	**DT 8/8**
			Date expressed as CCYYMMDD			
M	**DTM03**	**337**	**Time**		**M**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59)			
	DTM04	**623**	**Time Code**		**O**	**ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow			
			Accepted values:			
			LT	Local Time		

Segment: **M7** **Seal Numbers**
Position: 050
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Comments: **1** M705 indicates the name of the organization which applied the seal(s).
Notes: Example Syntax

M7*SN1234567*SN1234568~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**M701**	**225**	**Seal Number** Unique number on seal used to close a shipment	**M**	**AN 2/15**
	M702	**225**	**Seal Number** Unique number on seal used to close a shipment	**O**	**AN 2/15**
	M703	**225**	**Seal Number** Unique number on seal used to close a shipment	**O**	**AN 2/15**
	M704	**225**	**Seal Number** Unique number on seal used to close a shipment	**O**	**AN 2/15**
	M705	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/3**

Segment: **W2** **Equipment Identification**
Position: 070
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 1
Purpose: To identify equipment and the commodity being carried
Comments:
1 W208 is to contain the proper code when an empty car is being returned per ex parte 346, sub. 8. If proper code is unknown, default to 34617.
2 W211 (when available) is the chassis initial if W204 equals "CC". If unknown, use NONZ for chassis initial.
Notes: Example Syntax

W2*HASU*431617**CC*L********0~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**W201**	**206**	**Equipment Initial**	**M**	**AN 1/4**
			Prefix or alphabetic part of an equipment unit's identifying number		
M	**W202**	**207**	**Equipment Number**	**M**	**AN 1/10**
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		
			This element should contain the container number including the check digit!		
	W203	**22**	**Commodity Code**	**O**	**AN 1/30**
			Code describing a commodity or group of commodities		
M	**W204**	**40**	**Equipment Description Code**	**M**	**ID 2/2**
			Code identifying type of equipment used for shipment		
			Accepted values:		
			CC Container resting on a Chassis		
			CN Container		
			CZ Refrigerated Container		
M	**W205**	**578**	**Equipment Status Code**	**M**	**ID 1/2**
			Code indicating status of equipment		
			Accepted values:		
			E Empty		
			L Load		
	W213	**761**	**Equipment Number Check Digit**	**O**	**N0 1/1**
			Number which designates the check digit applied to a piece of equipment		

Segment: **R4** **Port or Terminal**
Position: 120
Loop: R4 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Comments: **1** R4 is required for each port to be identified.
Notes: Example Syntax

R4*5*UN*USCHI*BNSF CHICAGO RAMP (CICERO)*US***IL~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**R401**	**115**	**Port or Terminal Function Code** Code defining function performed at the port or terminal with respect to a shipment Accepted values: 5 Activity Location (Operational) – Place at which the activity being reported is occurring 6 Origin Rail Intermodal Terminal 7 Destination Rail Intermodal Terminal D Port of Discharge (Operational) – Port at which cargo is unloaded from vessel L Port of Loading (Operational) – Port at which cargo is loaded on vessel	**M ID 1/1**
M	**R402**	**309**	**Location Qualifier** Code identifying type of location Accepted values: CI City UN United Nations Location Code (UNLOCODE)	**M ID 1/2**
M	**R403**	**310**	**Location Identifier** Code which identifies a specific location	**M AN 1/30**
	R404	**114**	**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	**O AN 2/24**
	R405	**26**	**Country Code** Code identifying the country	**O ID 2/3**
	R408	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**

Segment: **N1** **Name**
Position: 150
Loop: N1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Example Syntax

N1*CN*ABCCONSIGNEE~
N1*RR*BNSF Railway*ZZ*BNSF~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual Accepted values: CN Consignee MC Motor Carrier RR Railroad SH Shipper	**M ID 2/3**
M	**N102**	**93**	**Name** Free-form name	**M AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Accepted values: ZZ Mutually Defined	**X ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/80**

Segment: **N9** **Reference Identification**
Position: 170
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 10
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Comments:
Notes: Example Syntax

N9*BN*6PHLSA1234~
N9*BM*A5GEMEN1976X~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N901**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			Accepted values:		
			BM Bill of Lading Number		
			BN Booking Number		
			P8 Pickup Reference Number		
			WY Waybill Number		
M	**N902**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **SE** **Transaction Set Trailer**
Position: 220
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Comments: **1** SE is the last segment of each transaction set.
Notes: Example Syntax

SE*10*0001~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
M	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **GE** **Functional Group Trailer**
Position: 230
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: 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.
Notes: Example Syntax

GE*1*1000~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**GE01**	**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	**M**	**N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M**	**N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position: 240
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Comments:
Notes: Example Syntax

IEA*1*053849086~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**IEA01**	**I16**	**Number of Included Functional Groups**	**M**	**N0 1/5**
			A count of the number of functional groups included in an interchange		
M	**IEA02**	**I12**	**Interchange Control Number**	**M**	**N0 9/9**
			A control number assigned by the interchange sender		

7 Appendix

7.1 Status Event Codes

The following rail events are expected and supported by Hamburg Süd.

Status Code	Description
A	Container has arrived at the location specified (interim)
I	In-Gate
J	Delivered to connecting line / delivered for rail transfer
P	Container has departed from the location specified (interim)
R	Received from prior carrier / received for rail transfer
AL	Container loaded on rail
AR	Rail arrived at Destination Intermodal Ramp
NF	Free time to expire
NT	Notification
OA	Out-Gate
RL	Rail departed from Origin Intermodal Ramp
UR	Container unloaded from rail

7.2 Code Lists as used by Hamburg Sued

I01 Authorization Information Qualifier

00	No Authorization Information Present (No Meaningful Information in I02)

I03 Security Information Qualifier

00	No Security Information Present (No Meaningful Information in I04)

I05 Interchange ID Qualifier

ZZ	Mutually Defined

I07 Interchange Receiver ID

HAMSUD	Hamburg Süd Sender ID

I10 Interchange Control Standards Identifier

U	U.S. EDI Community of ASC X12, TDCC, and UCS

I11 Interchange Control Version Number

00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

I13 Acknowledgment Requested

0	No Acknowledgment Requested

I14 Usage Indicator

P	Production Data

40 Equipment Description Code

CC	Container resting on a Chassis
CN	Container
CZ	Refrigerated Container

66 Identification Code Qualifier

ZZ	Mutually Defined

98 Entity Identifier Code

CN	Consignee
MC	Motor Carrier
RR	Railroad
SH	Shipper

115 Port or Terminal Function Code

5	Activity Location (Operational)
6	Origin Rail Intermodal Terminal
7	Destination Rail Intermodal Terminal
D	Port of Discharge (Operational)
L	Port of Loading (Operational)

124 Application Receiver's Code

HAMSUD	Hamburg Süd Receiver ID

128 Reference Identification Qualifier

BM	Bill of Lading Number
BN	Booking Number
P8	Pickup Reference Number
WY	Waybill Number

143 Transaction Set Identifier Code

322	Terminal Operations and Intermodal Ramp Activity

187 Weight Qualifier

CE	Certified Weight of Cargo
E	Estimated Net Weight
G	Gross Weight
N	Actual Net Weight

188 Weight Unit Code

K	Kilograms
L	Pounds

309 Location Qualifier

CI	City
UN	United Nations Location Code (UNLOCODE)

374 Date/Time Qualifier

017	Estimated Delivery
371	Estimated Arrival Date
830	Schedule

455 Responsible Agency Code

X	Accredited Standards Committee X12

479 Functional Identifier Code

SO	Ocean Shipment Information (322)

480 Version / Release / Industry Identifier Code

004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

578 Equipment Status Code

E	Empty
L	Load

623 Time Code

LT	Local Time

7.3 Example Messages

7.3.1 Message “Rail Arrival at Intermediate Rail Location”:

ISA*00* *00* *ZZ*HAMSUD*ZZ*PARTNERID*160526*2245*U*00401*053849086*0*P*>~
GS*SO*PARTNERID*HAMSUD*20160526*224500*1000*X*004010~
ST*322*0001~
Q5*A*20160526*214520*LT**SAINT PAUL*MN*US~
N7*HASU*431617*43459*G*******CN*BNSF*****L*0****451G*BNSF~
DTM*371*20160528*091200*LT~
DTM*017*20160529*080000*LT~
DTM*830*20160528*160000*LT~
M7*SN1234567*SN1234568~
W2*HASU*431617**CC*L********0~
R4*5*UN*USSTP*SAINT PAUL*US***MN~
R4*6*UN*USLGB*LONG BEACH*US***CA~
R4*7*UN*USCHI*BNSF CHICAGO RAMP (CICERO)*US***IL~
N1*RR*BNSF Railway*ZZ*BNSF~
N9*BN*6PHLSA1234~
N9*BM*A5GEMEN1976X~
SE*15*0001~
GE*1*1000~
IEA*1*053849086~

7.3.2 Message “Out-Gate”:

ISA*00* *00* *ZZ*HAMSUD*ZZ*PARTNERID*160526*2245*U*00401*053849086*0*P*>~
GS*SO*PARTNERID*HAMSUD*20160526*224500*1000*X*004010~
ST*322*0001~
Q5*OA*20160610*104520*LT**BNSF CHICAGO (LOGISTICS PARK)*IL*US~
N7*HASU*431617*43459*G*******CN*BNSF*****L*0****451G*BNSF~
M7*SN1234567*SN1234568~
W2*HASU*431617**CC*L********0~
R4*5*UN*USCHI*BNSF CHICAGO (LOGISTICS PARK)*US***IL~
R4*6*UN*USLGB*LONG BEACH*US***CA~
R4*7*UN*USCHI*BNSF CHICAGO RAMP (CICERO)*US***IL~
N1*RR*BNSF Railway*ZZ*BNSF~
N9*BN*6PHLSA1234~
N9*BM*A5GEMEN1976X~
SE*12*0001~
GE*1*1000~
IEA*1*053849086~

7.3.3 Message “Free time to expire on 25th June 2016”:

ISA*00* *00* *ZZ*HAMSUD*ZZ*PARTNERID*160526*2245*U*00401*053849086*0*P*>~
GS*SO*PARTNERID*HAMSUD*20160526*224500*1000*X*004010~
ST*322*0001~
Q5*NF*20160625*120000*LT**BNSF CHICAGO (LOGISTICS PARK)*IL*US~
N7*HASU*431617*43459*G*******CN*BNSF*****L*0****451G*BNSF~
M7*SN1234567*SN1234568~
W2*HASU*431617**CC*L********0~
R4*5*UN*USCHI*BNSF CHICAGO (LOGISTICS PARK)*US***IL~
R4*6*UN*USLGB*LONG BEACH*US***CA~
R4*7*UN*USCHI*BNSF CHICAGO RAMP (CICERO)*US***IL~
N1*RR*BNSF Railway*ZZ*BNSF~
N9*BN*6PHLSA1234~
N9*BM*A5GEMEN1976X~
SE*12*0001~
GE*1*1000~
IEA*1*053849086~

7.3.4 Message “Loaded on Rail”:

ISA*00* *00* *ZZ*HAMSUD*ZZ*PARTNERID*160526*2245*U*00401*053849086*0*P*>~
GS*SO*PARTNERID*HAMSUD*20160526*224500*1000*X*004010~
ST*322*0001~
Q5*AL*20160524*073000*LT**LONG BEACH*CA*US~
N7*HASU*431617*43459*G*******CN*BNSF*****L*0****451G*BNSF~
DTM*371*20160528*160000*LT~
DTM*830*20160528*160000*LT~
M7*SN1234567*SN1234568~
W2*HASU*431617**CC*L********0~
R4*5*UN*USLGB*LONG BEACH*US***CA~
R4*6*UN*USLGB*LONG BEACH*US***CA~
R4*7*UN*USCHI*BNSF CHICAGO RAMP (CICERO)*US***IL~
N1*RR*BNSF Railway*ZZ*BNSF~
N9*BN*6PHLSA1234~
N9*BM*A5GEMEN1976X~
SE*12*0001~
GE*1*1000~
IEA*1*053849086~