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EDI User Manual

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Functional Definition

Revision History

Date	Version	Description	Author
2011-01-11	1.0	Document created	Hauke Thiess
2016-03-02	1.1	Examples added	Sven Mueller
2016-04-18	1.2	VGM CutOff date/time added LoopR4:DTM New qualifier "649"	Peter Scharringhausen

Status Indicators

Status Indicators (M, O and X) form part of the ANSI ASC X12 standard and indicate a minimum requirement to fulfil the needs of the message structure.

The Status Indicators are:

Indicator	Value	Description
M	Mandatory	This entity must appear in all messages. Shown as usage indicator "M" in Implementation Guidelines.
O	Optional	This entity is used by agreement between the parties to the transaction.
X	Relational	This entity depends upon a well-defined condition or set of conditions. These conditions must be clearly specified in the relevant implementation guideline.

A Status Indicator may be represented by a supporting Usage Indicator which is either M, O, D or X.

Usage Indicators

Throughout this document reference is made to indicators (M, D, O and X) which are shown adjacent to data items and which dictate for the particular message or set thereof the agreed usage of the data items or entities.

Set out below are the indicators and their respective uses:

Indicator	Value	Description
M	Mandatory	Indicates that this entity is mandatory and must be sent in this implementation.
O	Optional	Indicates that this entity is at the need or discretion of the sender of the message.
D	Dependent	Indicates that the use of the entity depends upon a well-defined condition or set of conditions. These conditions must be clearly specified in the relevant implementation guideline.
X	Not Used	Indicates that the entity is not to be used in this message implementation.

Please be aware that each usage indicator describes the usage of an entity within it's parent entity. For example, a segment that is marked to be (M)andatory within an optional segment group must only be sent when the segment group is used.

Message Structure

Tag	Name	Status	Max. Use	Usage
ISA	Interchange Control Header	M	1	M
GS	Functional Group Header	O	1	O
ST	Transaction Set Header	M	1	M
V1	Vessel Identification	M	1	M
K1	Remarks	O	2	X
LoopR4		**M**	**999**	**M**
R4	Port or Terminal	M	1	M
DTM	Date/Time Reference	O	15	M
V9	Event Detail	M	5	M
SE	Transaction Set Trailer	M	1	M
GE	Functional Group Trailer	O	1	O
IEA	Interchange Control Trailer	M	1	M

Description of used Message Segments

ISA Interchange Control Header

Status: M Usage: M Min/Max: 1/1
Group: N/A

up

Description:

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

Tag	Element Name	Status	Type	Usage
I01	AUTHORIZATION INFORMATION QUALIFIER	M	id2	X
	Description: Code identifying the type of information in the Authorization Information			
I02	AUTHORIZATION INFORMATION	M	an10	X
	Description: 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)			
I03	SECURITY INFORMATION QUALIFIER	M	id2	X
	Description: Code identifying the type of information in the Security Information			
I04	SECURITY INFORMATION	M	an10	X
	Description: 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)			
I05	INTERCHANGE ID QUALIFIER	M	id2	X
	Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified			
I06	INTERCHANGE SENDER ID	M	an15	X
	Description: 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			
I05	INTERCHANGE ID QUALIFIER	M	id2	X
	Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified			
I07	INTERCHANGE RECEIVER ID	M	an15	X
	Description: 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			
I08	INTERCHANGE DATE	M	dt6	X
	Description: Date of the interchange			
I09	INTERCHANGE TIME	M	tm4	X
	Description: Time of the interchange			
I65	REPETITION SEPARATOR	M	an1	X

	Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator			
I11	INTERCHANGE CONTROL VERSION NUMBER	M	id5	X
	Description: Code specifying the version number of the interchange control segments			
I12	INTERCHANGE CONTROL NUMBER	M	n09	X
	Description: A control number assigned by the interchange sender			
I13	ACKNOWLEDGMENT REQUESTED	M	id1	X
	Description: Code indicating sender's request for an interchange acknowledgment			
I14	INTERCHANGE USAGE INDICATOR	M	id1	X
	Description: Code indicating whether data enclosed by this interchange envelope is test, production or information			
I15	COMPONENT ELEMENT SEPARATOR	M	an1	X
	Description: 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			

GS Functional Group Header

Status: O Usage: O Min/Max: 0/1
Group: N/A

up

Description:

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

Tag	Element Name	Status	Type	Usage
479	FUNCTIONAL IDENTIFIER CODE	M	id2	X
	Description: Code identifying a group of application related transaction sets			
142	APPLICATION SENDER'S CODE	M	an..15	X
	Description: Code identifying party sending transmission; codes agreed to by trading partners			
124	APPLICATION RECEIVER'S CODE	M	an..15	X
	Description: Code identifying party receiving transmission; codes agreed to by trading partners			
373	DATE	M	dt8	X
	Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
337	TIME	M	tm..8	X
	Description: 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)			
28	GROUP CONTROL NUMBER	M	n0..9	X
	Description: Assigned number originated and maintained by the sender			
455	RESPONSIBLE AGENCY CODE	M	id..2	X
	Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480			
480	VERSION / RELEASE / INDUSTRY IDENTIFIER CODE	M	an..12	X
	Description: 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			

ST Transaction Set Header

Status: M Usage: M Min/Max: 1/1
Group: N/A

up

Description:

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

Tag	Element Name	Status	Type	Usage
143	TRANSACTION SET IDENTIFIER CODE	M	id3	X
	Description: Code uniquely identifying a Transaction Set			
329	TRANSACTION SET CONTROL NUMBER	M	an..9	X
	Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			
1705	IMPLEMENTATION CONVENTION REFERENCE	O	an..35	X
	Description: Reference assigned to identify Implementation Convention			

V1 Vessel Identification

Status: M Usage: M Min/Max: 1/1
Group: N/A

up

Description:

To provide vessel details and voyage number

Example:

```
V1*9725122*HYUNDAI MARS**002E*HLCU**GC
```

Tag	Element Name	Status	Type	Usage
597	VESSEL CODE	O	id..8	O
	Description: Code identifying vessel			
182	VESSEL NAME	O	an..28	O
	Description: Name of ship as documented in "Lloyd's Register of Ships"			
26	COUNTRY CODE	O	id..3	X
	Description: Code identifying the country			
55	FLIGHT/VOYAGE NUMBER	O	an..10	O
	Description: Identifying designator for the particular flight or voyage on which the cargo travels			
140	STANDARD CARRIER ALPHA CODE	O	id..4	O
	Description: Standard Carrier Alpha Code			
249	VESSEL REQUIREMENT CODE	O	id1	X
	Description: Code specifying options for satisfying vessel requirements			
854	VESSEL TYPE CODE	O	id2	X
	Description: Code to determine type of vessel			
897	VESSEL CODE QUALIFIER	O	id1	X
	Description: Code specifying vessel code source			
91	TRANSPORTATION METHOD/TYPE CODE	O	id..2	X
	Description: Code specifying the method or type of transportation for the shipment			

R4 Port or Terminal

Status: M Usage: M Min/Max: 1/1
Group: LoopR4

up

Description:

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

Example:

```
R4*L*UN*KRPUS*BUSAN***W278~
R4*D*UN*KRPUS*BUSAN***W278~
```

Tag	Element Name	Status	Type	Usage
115	PORT OR TERMINAL FUNCTION CODE	M	id1	M
	Description: Code defining function performed at the port or terminal with respect to a shipment **Note:** **Value(s):** L Port of Loading (Operational) D Port of Discharge (Operational)			
309	LOCATION QUALIFIER	O	id..2	O
	Description: Code identifying type of location **Note:** **Value(s):** UN United Nations Location Code (UNLOCODE) **Value(s):** UN United Nations Location Code (UNLOCODE)			
310	LOCATION IDENTIFIER	O	an..30	O
	Description: Code which identifies a specific location			
114	PORT NAME	O	an..24	O
	Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property			
26	COUNTRY CODE	O	id..3	X
	Description: Code identifying the country			
174	TERMINAL NAME	O	an..30	O
	Description: Free-form field for terminal name			
113	PIER NUMBER	O	an..4	O
	Description: Identifying number for the pier			
156	STATE OR PROVINCE CODE	O	id2	X
	Description: Code (Standard State/Province) as defined by appropriate government agency			

DTM Date/Time Reference

Status: O Usage: M Min/Max: 0/15
Group: LoopR4

up

Description:

To specify pertinent dates and times

Example:

```
DTM*369*20160424~
DTM*371*20160503~
DTM*649*20181022~
```

Tag	Element Name	Status	Type	Usage
374	DATE/TIME QUALIFIER	M	id3	M
	Description: Code specifying type of date or time, or both date and time **Note:** **Value(s):** 371 Estimated Arrival Date 369 Estimated Departure Date 649 VGM Cut Off date/time. Latest date for presentation of the verified gross mass(weight).			
373	DATE	O	dt8	O
	Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
337	TIME	O	tm..8	O
	Description: 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)			
623	TIME CODE	O	id2	X
	Description: 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			
1250	DATE TIME PERIOD FORMAT QUALIFIER	O	id..3	X
	Description: Code indicating the date format, time format, or date and time format			
1251	DATE TIME PERIOD	O	an..35	X
	Description: Expression of a date, a time, or range of dates, times or dates and times			

V9 Event Detail

Status: M Usage: M Min/Max: 1/5
Group: LoopR4

up

Description:

To specify information about a specific event

Example:

```
V9*ZZZ*EVENT~
```

Tag	Element Name	Status	Type	Usage
304	EVENT CODE	M	id3	M
	Description: Code identifying the event about which a report is made **Note:** **Value(s):** ZZZ Mutually Defined **Value(s):** ZZZ Mutually Defined			
106	EVENT	O	an..25	O
	Description: Free-form description of event **Note:** **Value(s):** EVENT Fix value **Value(s):** EVENT Fix value			
373	DATE	O	dt8	X
	Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
337	TIME	O	tm..8	X
	Description: 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)			
19	CITY NAME	O	an..30	X
	Description: Free-form text for city name			
156	STATE OR PROVINCE CODE	O	id2	X
	Description: Code (Standard State/Province) as defined by appropriate government agency			
26	COUNTRY CODE	O	id..3	X
	Description: Code identifying the country			
641	STATUS REASON CODE	O	id3	X
	Description: Code indicating the status reason			
154	STANDARD POINT LOCATION CODE	O	id..9	X

	Description: Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city			
380	QUANTITY	O	r..15	X
	Description: Numeric value of quantity			
1274	TRAIN DELAY REASON CODE	O	an..3	X
	Description: Code specifying reason for train delay			
61	FREE-FORM INFORMATION	O	an..30	X
	Description: Free-form information			
623	TIME CODE	O	id2	X
	Description: 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			
380	QUANTITY	O	r..15	X
	Description: Numeric value of quantity			
154	STANDARD POINT LOCATION CODE	O	id..9	X
	Description: Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city			
86	TOTAL EQUIPMENT	O	n0..3	X
	Description: Total pieces of equipment			
86	TOTAL EQUIPMENT	O	n0..3	X
	Description: Total pieces of equipment			
86	TOTAL EQUIPMENT	O	n0..3	X
	Description: Total pieces of equipment			
81	WEIGHT	O	r..10	X
	Description: Numeric value of weight			
82	LENGTH	O	r..8	X
	Description: Largest horizontal dimension of an object measured when the object is in the upright position			

SE Transaction Set Trailer

Status: M Usage: M Min/Max: 1/1
Group: N/A

up

Description:

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

Tag	Element Name	Status	Type	Usage
96	NUMBER OF INCLUDED SEGMENTS	M	n0..10	M
	Description: Total number of segments included in a transaction set including ST and SE segments			
329	TRANSACTION SET CONTROL NUMBER	M	an..9	M
	Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			

GE Functional Group Trailer

Status: O Usage: O Min/Max: 0/1
Group: N/A

up

Description:

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

Tag	Element Name	Status	Type	Usage
97	NUMBER OF TRANSACTION SETS INCLUDED	M	n0..6	M
	Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element			
28	GROUP CONTROL NUMBER	M	n0..9	M
	Description: Assigned number originated and maintained by the sender			

IEA Interchange Control Trailer

Status: M Usage: M Min/Max: 1/1
Group: N/A

up

Description:

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

Tag	Element Name	Status	Type	Usage
I16	NUMBER OF INCLUDED FUNCTIONAL GROUPS	M	n0..5	M
	Description: A count of the number of functional groups included in an interchange			
I12	INTERCHANGE CONTROL NUMBER	M	n09	M
	Description: A control number assigned by the interchange sender			

Examples

```
ISA*00*          *00*          *ZZ*HLCUPROD       *08*6111470101     *160302*065
9* *00401*000000001*0*P*>~
GS*SO*HLCUPROD*6111470101*20160302*065901*1*X*004010~
ST*323*0001~
V1*0000000*TO BE ADVISED**TBA*HLCU~
R4*L*UN*VNSGN*HO CHI MINH CITY~
DTM*371~
DTM*369*20160512~
DTM*649*20160510~
V9*ZZZ*EVENT~
R4*D*UN*VNVUT*VUNG TAU~
DTM*371*20160512~
DTM*369~
V9*ZZZ*EVENT~
SE*1*0001~
GE*1*1~
IEA*1*000000001~
```