Message Definition
DESADV (with SSCC) – Despatch Advice
ECR-Austria
EANCOM 2002 (Syntax 3)
Version 2.1

Message Type:	DESADV
Message Version:	007 (EANCOM)
Responsible Agency:	GS1 Austria
Directory Name:	EDIFACT
Directory Version:	D.01.B

About this document

EDIFACT is a set of internationally agreed standards for the electronic interchange of data that was limited in form of EANCOM to those components which are really relevant for the consumer goods industry. The goal of the Austrian ECR-Initiative is, based on EANCOM to develop more precise standard profiles applicable in the Austrian consumer goods industry.
The practice in Austria today shows that normally two potential business partner which are intending to exchange data electronically come together with EANCOM specialists (GS1-Austria, Converter provider) and develop specific application profiles from the EANCOM standard which corresponds to their specific business needs. In order to save time and efforts it is necessary to try to reduce the complexity.

Standard application profiles should be seen as a recommendation from ECR-Austria-Initiative aiming to promote fast and aria-wide implementation of EANCOM. They should unify the interpretation of all contained fields and cover „90 %" of the business requirements. All requirements which are not a part of these standard application profiles have to be agreed bilateral between business partners.

All data fields marked as mandatory in the current documentation are considered as obligatory components in all EANCOM messages.

Within the second phase of the ECR-Austria-Initiative the message guidelines from the ECR-book defined in the first phase were adapted to the new business requirements and new standard application profiles were developed.

This document describes the data fields defined for this message type using EANCOM syntax. It deals only with these EANCOM-segments that are really relevant for the business purposes. **Therefore this document does not describe the whole set of EANCOM standards and does not replace the EANCOM manual.**

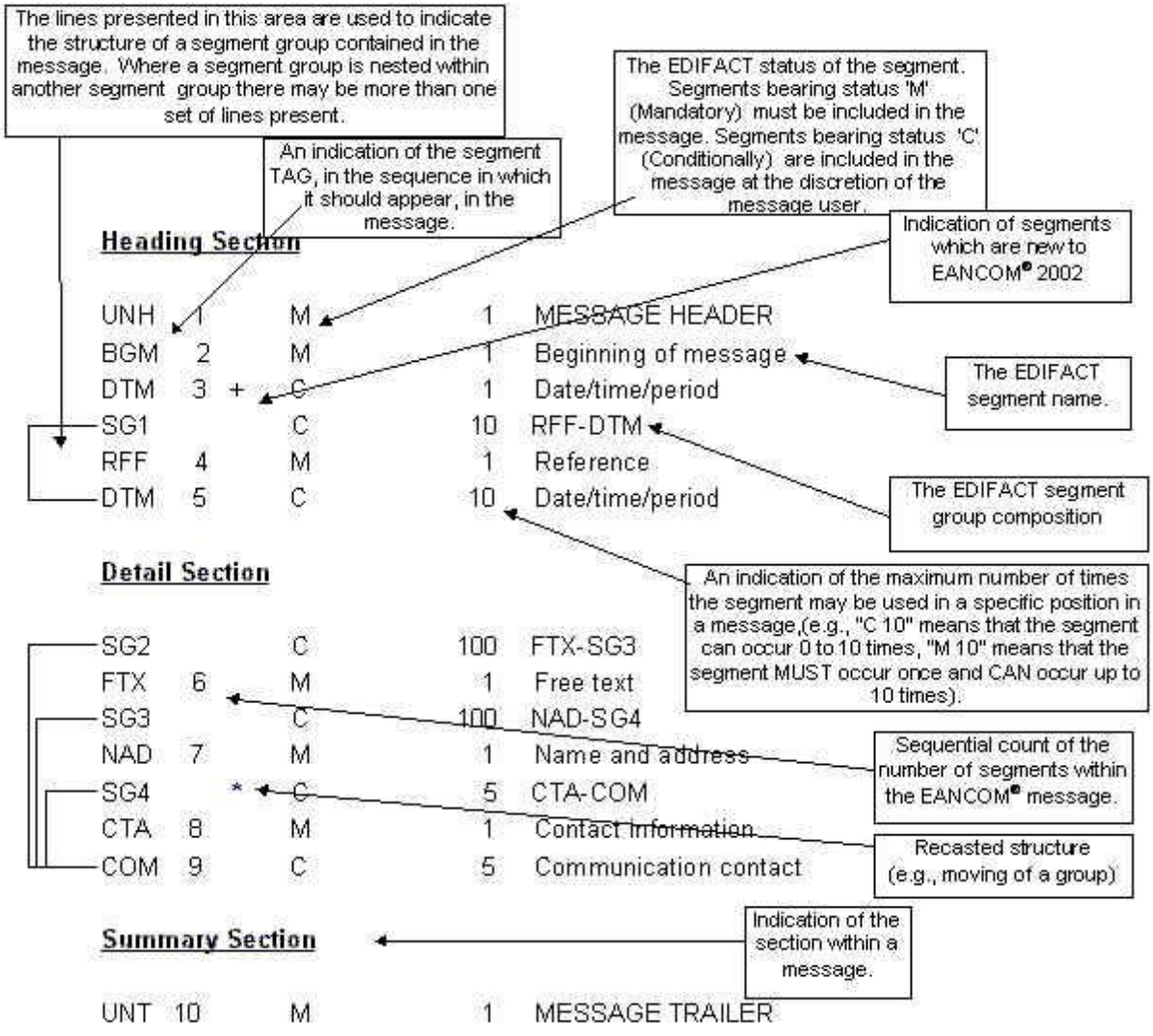
By this reason it is recommended by the implementation of this message to use beside this guideline also the EANCOM manual (available by GS1-Austria).

Document structure

1. Message structure
2. Business terms
3. Segment description

Message Structure Chart

Within every EANCOM® message a diagram is presented which explains the structure of the message.
The message structure chart is a sequential chart which presents the message in the sequence in which it must be formatted for transmission. Every message is structured and consists of three sections; a header, detail, and summary section. An example of a message structure chart follows:



Segments Layout

This section describes each segment used in the EANCOM Despatch advice message. The original EDIFACT segment layout is listed. The appropriate comments relevant to the EANCOM subset are indicated.

Notes:

1. The segments are presented in the sequence in which they appear in the message. The segment or segment group tag is followed by the (M)andatory / (C)onditional indicator, the maximum number of occurrences and the segment description.

2. Reading from left to right, in column one, the data element tags and descriptions are shown, followed by in the third column the EDIFACT status (M or C), the field format, and the picture of the data elements. These first pieces of information constitute the original EDIFACT segment layout.

   Following the EDIFACT information, EANCOM specific information is provided in the fourth, fifth and sixth columns. In the fourth column a status indicator for the use of (C)onditional EDIFACT data elements (see 2.1 through 2.3 below), in the fifth column the restricted indicator (see point 3 on the following page), and in the sixth column notes and code values used for specific data elements in the message.

   2.1 (**M**)andatory data elements in EDIFACT segments retain their status in EANCOM.

   2.2 Additionally, there are five types of status for data elements with a (C)onditional EDIFACT status, whether for simple, component or composite data elements. These are listed below and can be identified when relevant by the following abbreviations:

   - REQUIRED **R** Indicates that the entity is required and must be sent.
   - ADVISED **A** Indicates that the entity is advised or recommended.
   - DEPENDENT **D** Indicates that the entity must be sent in certain conditions, as defined by the relevant explanatory note.
   - OPTIONAL **O** Indicates that the entity is optional and may be sent at the discretion of the user.
   - NOT USED **N** Indicates that the entity is not used and should be omitted.

2.3 If a composite is flagged as **N, NOT USED**, all data elements within that composite will have blank status indicators assigned to them.

3. Status indicators detailed in the fifth column which directly relate to the code values detailed in the first column may have two values:

- RESTRICTED ***** A data element marked with an asterix (*) in the fifth column is (are) the only codes available for use with this data element, in this segment, in this message.

- OPEN All data elements where coded representation of data is possible and a restricted set of code values is not indicated are open (no asterix in fourth column). The available codes are listed in the EANCOM Data Elements and Code Sets Directory. Code values may be given as examples or there may be a note on the format or type of code to be used.

Message structure

Despatch advice message

UNH	1	**M**	1	Message header
BGM	2	**M**	1	Beginning of message
DTM	3	**M**	4	Date/time/period
ALI	4	**C**	1	Additional information
SG1		**M**	4	RFF-DTM
RFF	5	**M**	1	Reference
DTM	6	**C**	1	Date/time/period
SG2		**M**	6	NAD
NAD	7	**M**	1	Name and address
SG6		**C**	1	TDT
TDT	8	**M**	1	Details of transport
SG10		**M**	9999	CPS-SG11-SG17
CPS	9	**M**	1	Consignment packing sequence
SG11		**C**	9999	PAC-MEA-SG12-SG13
PAC	10	**M**	1	Package
MEA	11	**C**	4	Measurements
SG12		**C**	1	HAN
HAN	12	**M**	1	Handling instructions
SG13		**C**	2	PCI-SG15
PCI	13	**M**	1	Package identification
SG15		**M**	1	GIN
GIN	14	**M**	1	Goods identity number
SG17		**C**	9999	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
LIN	15	**M**	1	Line item
PIA	16	**C**	1	Additional product id
IMD	17	**C**	2	Item description
MEA	18	**C**	1	Measurements
QTY	19	**M**	5	Quantity
ALI	20	**C**	1	Additional information
DTM	21	**C**	1	Date/time/period
FTX	22	**C**	99	Free text
MOA	23	**C**	1	Monetary amount
SG22		**C**	3	PCI-DTM-SG23
PCI	24	**M**	1	Package identification
DTM	25	**C**	1	Date/time/period
SG23		**C**	1	GIN
GIN	26	**M**	1	Goods identity number
UNT	27	**M**	1	Message trailer

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BUSINESS TERMS

Business term	Description	Status	Format	Segment		Data element		
Message type		M	A/N 3		BGM	C002	1001	Document name code
Number of the DESADV/ Returns advice		M	A/N 16		BGM	C106	1004	Document identifier
Message date		M	D 8		DTM	C507	2380	Date or time or period value
Delivery date and time	Date and optional time	M	D 8/12		DTM	C507	2380	Date or time or period value
Delivery date/time, earliest		M	D 8		DTM	C507	2380	Date or time or period value
Delivery date/time, latest		M	D 8		DTM	C507	2380	Date or time or period value
Pick-up /collaction date/ time		M	D8/12		DTM	C507	2380	Date or time or period value
Identification of split shipment		O	A/N 3		ALI		4183	Special condition code
Order number	Order number assigned by the buyer	M	A/N 16	SG1	RFF	C506	1154	Reference identifier
Order number (supplier)	Reference number assigned by supplier to a buyer's order	O	A/N 16	SG1	RFF	C506	1154	Reference identifier
Delivery note number		O	A/N 16	SG1	RFF	C506	1154	Reference identifier
Organic control number of the supplier		O	A/N 35	SG1	RFF	C506	1154	Reference identifier
Reference date		O	D 8	SG1	DTM	C507	2380	Date or time or period value
Buyer	GLN	M	N 13	SG2	NAD	C082	3039	Party identifier

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BUSINESS TERMS

Business term	Description	Status	Format	Segment		Data element		
Supplier	GLN	M	N 13	SG2	NAD	C082	3039	Party identifier
Delivery party	GLN, only if different from buyer	O	N 13	SG2	NAD	C082	3039	Party identifier
Ultimate consignee	GLN, only if different from delivery party(Cross-Docking)	O	N 13	SG2	NAD	C082	3039	Party identifier
Ordered by	GLN, only if different from buyer	O	N 13	SG2	NAD	C082	3039	Party identifier
Invoicee	GLN, only if different from buyer	O	N 13	SG2	NAD	C082	3039	Party identifier
Transport mode		O	A/N 3	SG6	TDT	C220	8067	Transport mode name code
Means of transport		O	A/N 8	SG6	TDT	C228	8179	Transport means description code
Rail wagon number		O	A/N 16	SG6	TDT	C222	8212	Transport means identification na
Package quantity per consignment	Pallet,Container	O	N 15	SG11	PAC		7224	Package quantity
Package quantity per despatch unit		O	N 8	SG11	PAC		7224	Package quantity
Package type	EDIFACT-Codes	O	A/N 3	SG11	PAC	C202	7065	Package type description code
Consignment gross volume	in m3	O	N 15+3	SG11	MEA	C174	6314	Measurement value
Consignment total gross weight	in kg	O	N 15+3	SG11	MEA	C174	6314	Measurement value
Length of the despatch unit	in mm	O	N 15+3	SG11	MEA	C174	6314	Measurement value
Width of the despatch unit	in mm	O	N 15+3	SG11	MEA	C174	6314	Measurement value

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BUSINESS TERMS

Business term	Description	Status	Format	Segment		Data element		
Height of the despatch unit	in mm	O	N 15+3	SG11	MEA	C174	6314	Measurement value
Weight of the despatch unit	in kg	O	N 15+3	SG11	MEA	C174	6314	Measurement value
Handling instructions		O	A/N 3	SG12	HAN	C524	4079	Handling instruction description co
SSCC	Serial shipping container code	M	N 18	SG15	GIN	C208	7402	Object identifier
serialised Global Returnable Asset Identifier (GRAI)	wiht SSCC	O	A/N..30	SG15	GIN	C208	7402	Object identifier
non- serialised Global Returnable Asset Identifier (GRAI)	with SSCC	O	N..14	SG15	GIN	C208	7402	Object identifier
Article	EAN from order	M	N 14	SG17	LIN	C212	7140	Item identifier
Substitute item		O	A/N 35	SG17	PIA	C212	7140	Item identifier
Identification of standard group of products		O	A/N 3	SG17	IMD	C273	7009	Item description code
Place of provenance	of the primary ingredient of the product (EU 1169/2011)	O	A/N 2X256	SG17	IMD	C273	7008	Item description
Invoiced quantity		O	N 7+3	SG17	MEA	C174	6314	Measurement value
Despatch quantity		M	N 7+3	SG17	QTY	C186	6060	Quantity
Free goods quantity		O	N 7+3	SG17	QTY	C186	6060	Quantity
Ordered quantity		O	N 7+3	SG17	QTY	C186	6060	Quantity

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BUSINESS TERMS

Business term	Description	Status	Format	Segment		Data element		
Number of consumer units in the traded unit		O	N 7+3	SG17	QTY	C186	6060	Quantity
Number of units in higher packaging or configuration level (EAN Code)		O	N 7+3	SG17	QTY	C186	6060	Quantity
Return quantity		O	N 7+3	SG17	QTY	C186	6060	Quantity
Country of origin	EU 1169/2011	O	A/N 3	SG17	ALI		3239	Country of origin name code
Fish and seafood: Date of catch	EU 1169/2011	O	D 8/16	SG17	DTM	C507	2380	Date or time or period value
Fish and seafood: label information, coded	EU-LMIV	O	A/N20X 512	SG17	FTX	C108	4440	Free text value
Fish and seafood: catch method, coded	EU-LMIV	O	A/N10X 512	SG17	FTX	C108	4440	Free text value
Fish and seafood: catch area (main/ sub-catch area), coded	EU-LMIV	O	A/N10X 512	SG17	FTX	C108	4440	Free text value
Fish and seafood: production method, coded	EU-LMIV	O	A/N10X 512	SG17	FTX	C108	4440	Free text value
Line item amount		O	N 10+3	SG17	MOA	C516	5004	Monetary amount
Best before date		O	D 8	SG22	DTM	C507	2380	Date or time or period value

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BUSINESS TERMS

Business term	Description	Status	Format	Segment		Data element		
Expiry date		O	D 8	SG22	DTM	C507	2380	Date or time or period value
Packaging date		O	D 8	SG22	DTM	C507	2380	Date or time or period value
Batch number		O	A/N 35	SG23	GIN	C208	7402	Object identifier

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UNH – M 1 – Message header

Function : To head, identify and specify a message.
Segment number : 1

Data element group/Data element		EDIFACT	ANW	*	Description
0062	**Message reference number**	M an..14	**M**		Sender's unique message reference. Sequence number of the messages in the interchange. DE 0062 in the UNT will be exactly the same. Sender generated.
S009	**Message identifier**	M	**M**		
0065	Message type	M an..6	**M**	*	DESADV = Despatch advice message
0052	Message version number	M an..3	**M**	*	D = Draft version/UN/EDIFACT Directory
0054	Message release number	M an..3	**M**	*	01B = Release 2001 - B
0051	Controlling agency	M an..2	**M**	*	UN = UN/CEFACT
0057	Association assigned code	C an..6	**R**	*	EAN007 = EAN version control number (EAN Code)
0068	**Common access reference**	C an..35	**N**		
S010	**Status of the transfer**	C	**N**		
0070	Sequence of transfers	M n..2			
0073	First and last transfer	C a1			

Segment notes

Example:
UNH+ME000001+DESADV:D:01B:UN:EAN007'

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BGM - M 1 - Beginning of message

Function : To indicate the type and function of a message and to transmit the identifying number.
Segment number : 2

Data element group/Data element		EDIFACT	ANW	*	Description
C002	**Document/message name**	C	**R**		
1001	Document name code	C an..3	**R**	*	351 = Despatch advice 35E = Returns advice (GS1 Temporary Code)
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**N**		
1000	Document name	C an..35	**N**		
C106	**Document/message identification**	C	**R**		
1004	Document identifier	C an..35	**R**		Despatch Advice/ Returns advice number assigned by the document sender.
1056	Version identifier	C an..9	**N**		
1060	Revision identifier	C an..6	**N**		
1225	**Message function code**	C an..3	**R**	*	9 = Original
4343	**Response type code**	C an..3	**N**		

Segment notes

- Message type - Despatch advice (DE1001 = 351); Mandatory; A/N 3

- Despatch Advice number (DE1004); Mandatory; A/N 16
BGM+351+8090+9'

- Number of Returns advice (GS1 Temporary Code) (DE1004); Mandatory; A/N 16
- Message type - Ruturns Advice (DE1001 = 35E); Mandatory; A/N 3
BGM+35E+8090+9'

DE1004: This data element is used to transmit the number of the Despatch advice (DESADV). ECR-Austria recommends to use the same number for the Despatch Advice (DESADV) and the Delivery .note (on paper). If the number of the delivery note is different from the number of the DESADV the delivery note number should be communicated in the RFF-Segment (DE1153 = DQ). If the numbers are the same both DE 1004 and RFF - Segment should be filled out (with same number). this approach ensures compatibility with ECR-Germany.

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DTM - M 4 - Date/time/period

Function : To specify date, and/or time, or period.
Segment number : 3

Data element group/Data element		EDIFACT	ANW	*	Description
C507	**Date/time/period**	M	**M**		
2005	Date or time or period function code qualifier	M an..3	**M**	*	137 = Document/message date/time 17 = Delivery date/time, estimated 64 = Delivery date/time, earliest 63 = Delivery date/time, latest 200 = Pick-up/collection date/time of cargo
2380	Date or time or period value	C an..35	**R**		
2379	Date or time or period format code	C an..3	**R**	*	102 = CCYYMMDD 203 = CCYYMMDDHHMM

Segment notes

- Message date (DE2005 = 137); Mandatory; D 8
DTM+137:20060522:102'

- Delivery date (DE2005 = 17); Mandatory (*); D 8 - D 12 optional the delivery time can be also provided (DE2379 = 203)
DTM+17:200605251200:203'

- Delivery date/time, earliest (DE2005 = 64); Mandatory (*); D 8
DTM+64:20060526:102'

- Pick-up/ collection date/time (DE2005 = 200); Mandatory; D 8 - D 12
DTM+200:201805251200:203'

- Delivery date/time, latest (DE2005 = 63); Mandatory (*); D 8
DTM+63:20060529:102'

REMARK:
(*) The following rules apply when using 'Delivery date':
- only Qualifier 17 or
- Qualifier 64 and 63 together or
- only Qualifier 64 or
- only Qualifier 63

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ALI – C 1 – Additional information

Function : To indicate that special conditions due to the origin, customs preference, fiscal or commercial factors are applicable.

Segment number : 4

Data element group/Data element		EDIFACT	ANW	*	Description
3239	**Country of origin name code**	C an..3	**N**		
9213	**Duty regime type code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**M**	*	165 = Split shipment
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		

Segment notes

- Identification of split shipment; Optional; A/N 3
ALI+++165'

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SG1 - M 4 - RFF-DTM

RFF - M 1 - Reference

Function : To specify a reference.
Segment number : 5

Data element group/Data element		EDIFACT	ANW	*	Description
C506	**Reference**	M	**M**		
1153	Reference code qualifier	M an..3	**M**	*	ON = Order number VN = Order number (supplier) DQ = Delivery note number XC1 = Product certification number (EAN Code)
1154	Reference identifier	C an..70	**R**		
1156	Document line identifier	C an..6	**N**		
4000	Reference version identifier	C an..35	**N**		
1060	Revision identifier	C an..6	**N**		

Segment notes

- Order number (DE1153 = ON); Mandatory; A/N 16
RFF+ON:234'

- Order number (supplier) (DE1153 = VN); Optional; A/N 16
RFF+VN:6576'

- Delivery note number (DE1153 = DQ); Optional; A/N 16 (see notes BGM-Segment)
RFF+DQ:987'

- Organic control number of the supplier (DE1153 = XC1); Optional; A/N 35
RFF+XC1:AT-N-01-BIO'

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SG1 - M 4 - RFF-DTM

DTM - C 1 - Date/time/period

Function : To specify date, and/or time, or period.
Segment number : 6

Data element group/Data element		EDIFACT	ANW	*	Description
C507	**Date/time/period**	M	**M**		
2005	Date or time or period function code qualifier	M an..3	**M**	*	171 = Reference date/time
2380	Date or time or period value	C an..35	**R**		
2379	Date or time or period format code	C an..3	**R**	*	102 = CCYYMMDD

Segment notes

- Reference date (DE2005 = 171); Optional; D 8
DTM+171:20060520:102'

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SG2 - M 6 - NAD

NAD - M 1 - Name and address

Function : To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.

Segment number : 7

Data element group/Data element		EDIFACT	ANW	*	Description
3035	**Party function code qualifier**	M an..3	**M**	*	BY = Buyer DP = Delivery party IV = Invoicee OB = Oredred by SU = Supplier UC = Ultimate consignee
C082	**Party identification details**	C	**R**		
3039	Party identifier	M an..35	**M**		GLN - Format n13
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**R**	*	9 = EAN (International Article Numbering Association)
C058	**Name and address**	C	**N**		
3124	Name and address description	M an..35			
3124	Name and address description	C an..35			
3124	Name and address description	C an..35			
3124	Name and address description	C an..35			
3124	Name and address description	C an..35			
C080	**Party name**	C	**N**		
3036	Party name	M an..35			
3036	Party name	C an..35			
3036	Party name	C an..35			
3036	Party name	C an..35			
3036	Party name	C an..35			
3045	Party name format code	C an..3			
C059	**Street**	C	**N**		
3042	Street and number or post office box identifier	M an..35			
3042	Street and number or post office box identifier	C an..35			
3042	Street and number or post office box identifier	C an..35			
3042	Street and number or post office box identifier	C an..35			
3164	**City name**	C an..35	**N**		
C819	**Country sub-entity details**	C	**N**		
3229	Country sub-entity name code	C an..9			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			

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Data element group/Data element		EDIFACT	ANW	*	Description
3228	Country sub-entity name	C an..70			
3251	**Postal identification code**	C an..17	**N**		
3207	**Country name code**	C an..3	**N**		

Segment notes

- Buyer (DE3035 = BY); Mandatory; N 13
NAD+BY+9012345000004::9'

- Supplier (DE3035 = SU); Mandatory; N 13
NAD+SU+9012345000011::9'

- Delivery party (DE3035 = DP); Optional; N 13
NAD+DP+9012345000028::9'

- Ultimate consignee (DE3035 = UC); Optional; N 13
NAD+UC+9012345000035::9'

- Ordered by (DE3035 = OB); Optional; N 13
NAD+OB+9012345000042::9'

- Invoicee (DE3035 = IV); Optional; N 13
NAD+IV+9012345000059::9'

Remark to Cross-Docking:
The field for delivery party (DE3035 = DP) should contain the Cross-Docking-Point. The data field Ultimate consignee (DE3035 =UC) is used to identify the address for which the goods are picked.

DE 3039: For partner identification use exclusively the GLN.

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SG6 - C 1 - TDT

TDT - M 1 - Details of transport

Function : To specify the transport details such as mode of transport, means of transport, its conveyance reference number and the identification of the means of transport.

Segment number : 8

Data element group/Data element		EDIFACT	ANW	*	Description
8051	**Transport stage code qualifier**	M an..3	**M**	*	20 = Main-carriage transport
8028	**Means of transport journey identifier**	C an..17	**N**		
C220	**Mode of transport**	C	**R**		
8067	Transport mode name code	C an..3	**R**		20 = Rail transport 30 = Road transport 50 = Mail
8066	Transport mode name	C an..17	**N**		
C228	**Transport means**	C	**O**		
8179	Transport means description code	C an..8	**M**		25 = Rail express X05 = Road parcel express (EAN Code) X09 = Parcel post (EAN Code - book) X13 = Air mail (EAN Code - book) X11 = Surface mail (EAN Code - book)
8178	Transport means description	C an..17	**N**		
C040	**Carrier**	C	**N**		
3127	Carrier identifier	C an..17			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			
3128	Carrier name	C an..35			
8101	**Transit direction indicator code**	C an..3	**N**		
C401	**Excess transportation information**	C	**N**		
8457	Excess transportation reason code	M an..3			
8459	Excess transportation responsibility code	M an..3			
7130	Customer shipment authorisation identifier	C an..17			
C222	**Transport identification**	C	**O**		
8213	Transport means identification name identifier	C an..9	**N**		
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**N**		
8212	Transport means identification name	C an..35	**R**		Rail wagon number
8453	Transport means nationality code	C an..3	**N**		

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Data element group/Data element		EDIFACT	ANW	*	Description
8281	**Transport means ownership indicator code**	C an..3	**N**		

Segment notes

- Transport mode (DE8067); Optional; A/N 3
TDT+20++30'

- Rail wagon number (DE8212); Optional; A/N 16
TDT+20++20+59E++++:::WE3929293'

In DE 8179 means of transport can be described more precisely.

DE8179, DE8067: for further codes see the code list.

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SG10	- M	9999 -	CPS-SG11-SG17
CPS	- M	1 -	Consignment packing sequence

Function : To identify the sequence in which physical packing is presented in the consignment, and optionally to identify the hierarchical relationship between packing layers.

Segment number : 9

Data element group/Data element		EDIFACT	ANW	*	Description
7164	**Hierarchical structure level identifier**	M an..35	**M**		Sequential numbering requested.
7166	**Hierarchical structure parent identifier**	C an..35	**D**		
7075	**Packaging level code**	C an..3	**N**		

Segment notes

The CPS-Segment serves as a trigger for the detail section. It identifies here the whole consignment. This segment is followed by a PAC-Segment which contains information about package quantity and type. In the following Segments (CPS-Segments) each packaging unit is described in detail (as sub-lines).

See also the example at the end of this document.

Example:
CPS+1'

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SG10	- M	9999 -	CPS-SG11-SG17
SG11	- C	9999 -	PAC-MEA-SG12-SG13
PAC	- M	1 -	Package

Function : To describe the number and type of packages/physical units.
Segment number : 10

Data element group/Data element		EDIFACT	ANW	*	Description
7224	**Package quantity**	C n..8	**R**		
C531	**Packaging details**	C	**N**		
7075	Packaging level code	C an..3			
7233	Packaging related description code	C an..3			
7073	Packaging terms and conditions code	C an..3			
C202	**Package type**	C	**M**		
7065	Package type description code	C an..17	**M**		200 = Pallet ISO 0 - 1/2 EURO Pallet (EAN Code) 201 = Pallet ISO 1 - 1/1 EURO Pallet (EAN Code) PK = Package
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**D**		9 = EAN (International Article Numbering Association)
7064	Type of packages	C an..35			
C402	**Package type identification**	C	**N**		
7077	Description format code	M an..3			
7064	Type of packages	M an..35			
7143	Item type identification code	C an..3			
7064	Type of packages	C an..35			
7143	Item type identification code	C an..3			
C532	**Returnable package details**	C	**N**		
8395	Returnable package freight payment responsibility code	C an..3			
8393	Returnable package load contents code	C an..3			

Segment notes

On whole consignment level:
- Package quantity - whole consignment (DE7224); Optional; N15
- Package type - whole consignment (DE7065); Optional; A/N 3

If on the next hierarchy level there is a description of e.g. 5 SSCC then the following PAC-description on whole consignment level is required:
PAC+5++PK'

On despatch unit level:
- Package quantity/type (current despatch unit)

PAC+1++201::9'

- Number of packages per despatch unit (DE7224); Optional; N 15

PAC+20++PK'

DE7065: for further codes see the code list
DE3055: is to be used when DE 7065 contains EAN-code

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SG10	- M	9999 -	CPS-SG11-SG17
SG11	- C	9999 -	PAC-MEA-SG12-SG13
MEA	- C	4 -	Measurements

Function : To specify physical measurements, including dimension tolerances, weights and counts.
Segment number : 11

Data element group/Data element		EDIFACT	ANW	*	Description
6311	**Measurement purpose code qualifier**	M an..3	**M**	*	PD = Physical dimensions (product ordered)
C502	**Measurement details**	C	**R**		
6313	Measured attribute code	C an..3	**R**	*	AAD = Total gross weight AAW = Gross volume LN = Length dimension WD = Width dimension HT = Height dimension AAB = Unit gross weight
6321	Measurement significance code	C an..3	**N**		
6155	Non-discrete measurement name code	C an..17	**N**		
6154	Non-discrete measurement name	C an..70	**N**		
C174	**Value/range**	C	**R**		
6411	Measurement unit code	M an..3	**R**		KGM = Kilogram MTQ = Cubic metre MMT = Millimetre
6314	Measurement value	C an..18	**R**		
6162	Range minimum value	C n..18	**N**		
6152	Range maximum value	C n..18	**N**		
6432	Significant digits quantity	C n..2	**N**		
7383	**Surface or layer code**	C an..3	**N**		

Segment notes

On whole consignment level:
- Gross volume (DE6313 =AAW); Optional; N 15+3
MEA+PD+AAW+MTQ:15'

- Total gross weight (DE6313 = AAD); Optional; N 15+3
MEA+PD+AAD+KGM:150'

On despatch unit level:
- Despatch unit length (DE6313 = LN); Optional; N 15+3
MEA+PD+LN+MMT:1200'

- Despatch unit width (DE6313 = WD); Optional; N 15+3
MEA+PD+WD+MMT:800'

- Despatch unit height (DE6313 = HT); Optional; N 15+3
MEA+PD+HT+MMT:1000'

- Despatch unit weight (DE6313 = AAB); Optional; N 15+3
MEA+PD+AAB+KGM:200'

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SG10	- M	9999 -	CPS-SG11-SG17
SG11	- C	9999 -	PAC-MEA-SG12-SG13
SG12	- C	1 -	HAN

HAN - M 1 - Handling instructions

Function : To specify handling and where necessary, notify hazards.
Segment number : 12

Data element group/Data element		EDIFACT	ANW	*	Description
C524	**Handling instructions**	C	**R**		
4079	Handling instruction description code	C an..3	**R**		3 = Stacked CRU = Crushable (EAN Code) FTD = Frost danger (EAN Code)
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**D**	*	9 = EAN (International Article Numbering Association)
4078	Handling instruction description	C an..70	**N**		
C218	**Hazardous material**	C	**N**		
7419	Hazardous material category name code	C an..7			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			
7418	Hazardous material category name	C an..35			

Segment notes

On despatch unit level:

- Handling instructions (DE4079); Optional; A/N 3
HAN+CRU::9'

DE4079: for further codes see the code list
DE3055: to be used when DE 4079 contains EAN-code

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SG10	- M	9999 -	CPS-SG11-SG17
SG11	- C	9999 -	PAC-MEA-SG12-SG13
SG13	- C	2 -	PCI-SG15

PCI - M 1 - Package identification

Function : To specify markings and labels on individual packages or physical units.
Segment number : 13

Data element group/Data element		EDIFACT	ANW	*	Description
4233	**Marking instructions code**	C an..3	**R**	*	33E = Marked with serial shipping container code (EAN Code) 41G = Marked with GS1 Global Returnable Asset Identifier (GS1 Code)
C210	**Marks & labels**	C	**N**		
7102	Shipping marks description	M an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
8275	**Container or package contents indicator code**	C an..3	**N**		
C827	**Type of marking**	C	**N**		
7511	Marking type code	M an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			

Segment notes

This segment is used to provide markings with SSCC in the GIN segment.

Example:
PCI+33E'

The PCI segment is the trigger segment for transmitting the information that the packaging unit (e.g. pallet) is marked with GRAI (=Global Returnable Asset Identifier). (see SG15 / GIN – mapping of serialized and non-serialized GRAI with SSCC)

Example:
PCI+41G'

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SG10	- M	9999 -	CPS-SG11-SG17
SG11	- C	9999 -	PAC-MEA-SG12-SG13
SG13	- C	2 -	PCI-SG15
SG15	- M	1 -	GIN

GIN	- M	1 - Goods identity number

Function : To give specific identification numbers, either as single numbers or ranges.
Segment number : 14

Data element group/Data element		EDIFACT	ANW	*	Description
7405	**Object identification code qualifier**	M an..3	**M**	*	BJ = Serial shipping container code DA =GS1 Global Returnable Asset Identifier with SSCC, without serial number (GS1- Code) DB = GS1 Global Returnable Asset Identifier with SSCC, with serial number (GS1- Code)
C208	**Identity number range**	M	**M**		
7402	Object identifier	M an..35	**M**		
7402	Object identifier	C an..35	**N**		
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			

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Segment notes

On despatch unit level:

- SSCC; Mandatory; N 18
GIN+BJ+390123450000000001'

On despatch unit level:

- non-serialized mapping of GRAI (Global Returnable Asset Identifier)
(DE7405=DA); Optional; N..14*)
GIN+DA+<nGRAI-3>'
or
-serialized mapping of GRAI (Global Returnable Asset Identifier); (DE7405=DB); Optional; A/N..30 *)
GIN+DB+<sGRAI-1>'

*) This is the serialized and non-serialized mapping of GRAI (=Global Returnable Asset Identifier) with SSCC. The choice depends on is whether only the container type (basic number) will be specified or the container is to be accepted in serialized form respectively it is also important for possible traceability.

In the appendix of the guideline there is an exact mapping of the serialized and non-serialized GRAI (Global Returnable Asset Identifier)
with SSCC added.

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
LIN	- M	1 -	Line item

Function : To identify a line item and configuration.
Segment number : 15

Data element group/Data element		EDIFACT	ANW	*	Description
1082	**Line item identifier**	C an..6	**R**		Application generated number of the item lines within the Despatch Advice. The number must be unique and ascending within the message.
1229	**Action request/notification description code**	C an..3	**N**		
C212	**Item number identification**	C	**R**		
7140	Item identifier	C an..35	**R**		Format n..14, EAN/GTIN - this is the number of the article being despatched.
7143	Item type identification code	C an..3	**R**	*	SRV= EAN.UCC Global Trade Item Number
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**N**		
C829	**Sub-line information**	C	**D**		
5495	Sub-line indicator code	C an..3	**M**	*	1 = Sub-line information
1082	Line item identifier	C an..6	**M**		
1222	**Configuration level number**	C n..2	**N**		
7083	**Configuration operation code**	C an..3	**N**		

Segment notes

- Article identification by EAN (DE7140); Mandatory; N 14
LIN+1++9054321444441:SRV'

- Identification of standard group of products (mixed assortment)
LIN+2++9099999000021:SRV+1:1'

Representation of returnable items (empties) in DESADV:

Basically there are 2 types of returnable items:

1) bounded returnable item: the returnable item is sent together with a full item
Approach:
- Returnable item information is not sent in DESADV!

2) unbounded returnable item: the returnable item is sent without full item (empty), e.g. by ordering of an "empty" case
Approach:
- Returnable item is represented as a normal article
- Additional qualifier for returnable item identification is NOT sent!

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SG10	– M	9999 –	CPS-SG11-SG17
SG17	– C	9999 –	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
PIA	– C	1 –	Additional product id

Function : To specify additional or substitutional item identification codes.
Segment number : 16

Data element group/Data element		EDIFACT	ANW	*	Description
4347	**Product identifier code qualifier**	M an..3	**M**	*	4 = Substituted for
C212	**Item number identification**	M	**M**		
7140	Item identifier	M an..35	**M**		
7143	Item type identification code	M an..3	**M**	*	SRV EAN.UCC Global Trade Item Number
1131	Code list identification code	N an..17	**N**		
3055	Code list responsible agency code	N an..3	**N**		
C212	**Item number identification**	N	**N**		
7140	Item identifier	C an..35			
7143	Item type identification code	C an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			
C212	**Item number identification**	N	**N**		
7140	Item identifier	C an..35			
7143	Item type identification code	C an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			
C212	**Item number identification**	N	**N**		
7140	Item identifier	C an..35			
7143	Item type identification code	C an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			
C212	**Item number identification**	N	**N**		
7140	Item identifier	C an..35			
7143	Item type identification code	C an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			

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Segment notes

- Substituted for (DE4347=4 +7140); Optional; A/N 35
PIA+4+9099999300432:SRV'

Substituted For - To provide the trade item number of a product which has been substituted by the product identified by the trade item number provided in the LIN segment.
In the despatch advice this function code may be used to inform trading partners of the trade item number of the product originally ordered which has been substituted by another product identified in the LIN segment.
In this case, the segment LIN will refer to the despatched product and the PIA segment will provide the trade item number of the unavailable product.

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
IMD	- C	2 -	Item description

Function : To describe an item in either an industry or free format.
Segment number : 17

Data element group/Data element		EDIFACT	ANW	*	Description
7077	**Description format code**	C an..3	**R**	*	C = Code (from industry code list) A = Free-form long description
C272	**Item characteristic**	C	**N**		
7081	Item characteristic code	C an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			
C273	**Item description**	C	**M**		
7009	Item description code	C an..17	**D**	*	SG = Standard group of products (mixed assortment) (EAN Code) PROVENANCE =Place of provenance (CCG-Code)
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**D**	*	9 = EAN (International Article Numbering Association) 246 = DE, Centrale fuer Coorganisation GMBH Code 9 must be set if the DE 7009 is transmitted with an EAN code! Code 246 must be set if the DE7009 is transmitted with a CCG code!
7008	Item description	C an..256	**D**		
7008	Item description	C an..256	**O**		
3453	Language name code	C an..3	**D**		DE = German
7383	**Surface or layer code**	C an..3	**N**		

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Segment notes

This segment is used to describe the current line item.
It is recommended to use this segment only for coded descriptions.

- Identification of standard group of products (mixed assortment) (DE7009=SG); Optional; A/N 3
IMD+C++SG::9'

- Place of provenance/ name (EU 1169/2011) waters of origin/ (DE7008, in combination with DE7077 = A, DE7009 = PROVENANCE, DE3055 = 246 and a language code in DE3453); A/N 2X256.

For fishery products (EU No 1379 / 2013), in case of inland fisheries (see production method in FTX segment), the indication of the waters of origin has to be given here (see attachment for example of "fish").
IMD+A++PROVENANCE::246:Hallstättersee::DE'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
MEA	- C	1 -	Measurements

Function : To specify physical measurements, including dimension tolerances, weights and counts.
Segment number : 18

Data element group/Data element		EDIFACT	ANW	*	Description
6311	**Measurement purpose code qualifier**	M an..3	**M**	*	ABW = Unit of measure used for invoiced quantities
C502	**Measurement details**	C	**M**		
6313	Measured attribute code	C an..3	**M**	*	AAL = Net weight
6321	Measurement significance code	C an..3	**N**		
6155	Non-discrete measurement name code	C an..17	**N**		
6154	Non-discrete measurement name	C an..70	**N**		
C174	**Value/range**	C	**M**		
6411	Measurement unit code	M an..3	**M**		KGM = Kilogram
6314	Measurement value	C an..18	**M**		
6162	Range minimum value	C n..18	**N**		
6152	Range maximum value	C n..18	**N**		
6432	Significant digits quantity	C n..2	**N**		
7383	**Surface or layer code**	C an..3	**N**		

Segment notes

This segment is used by variable quantity products to specify the actual physical dimensions of the position that will be invoiced (in case when unit of measure in the order is different from the unit of measure in the invoice)!

This measurement information is to be used only together with the qualifier 12 in the QTY-Segment!

- Delivered quantity for invoicing (DE6311 = ABW and DE6313 = AAL); Optional, N 7+3
MEA+ABW+AAL+KGM:22.4'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
QTY	- M	5 -	Quantity

Function : To specify a pertinent quantity.
Segment number : 19

Data element group/Data element		EDIFACT	ANW	*	Description
C186	**Quantity details**	M	**M**		
6063	Quantity type code qualifier	M an..3	**M**	*	12 = Despatch quantity 21 = Ordered quantity 192 = Free goods quantity (EAN Code) 59 = Number of consumer units in the traded unit 45E = Number of units in higher packaging or configuration level (EAN Code) 61 = Return quantity
6060	Quantity	M an..35	**M**		
6411	Measurement unit code	C an..3	**D**		KGM = Kilogram PCE = Piece

Segment notes

- Despatch quantity (DE6063 = 12); Mandatory; N 7+3
QTY+12:350'

- Free goods quantity; Optional; N 7+3
QTY+192:12'

- Ordered quantity (DE6063 = 21); Optional; N 7+3
When the delivery of one order position is related to more than one SSCC or LIN (more batch numbers) then the quantity information from the order must be repeated per each SSCC resp. LIN.
QTY+21:10:PCE'

- Return quantity (DE6063 = 61); Optional; N 7+3
QTY+61:10'

- Number of consumer units in the traded unit (DE6063 =59); Optional, N 7+3
QTY+59:25'

- Number of units in higher packaging or configuration level (EAN Code); Optional; N 7+3
In the qualifier 45E is displayed the total quantity of all sub-positions (Quantity main position x number of the sub-positions within the main position = total quantity)
QTY+45E:10'

*) Please note that the free goods quantity (QTY+192) is lready included in the despatch quantity (QTY+12)!

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
ALI	- C	1 -	Additional information

Function : To indicate that special conditions due to the origin, customs preference, fiscal or commercial factors are applicable.

Segment number : 20

Data element group/Data element		EDIFACT	ANW	*	Description
3239	**Country of origin name code**	C an..3	**M**		ISO 3166 2-alpha Code AT = AUSTRIA EU = EU (EAN Code)
9213	**Duty regime type code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		
4183	**Special condition code**	C an..3	**N**		

Segment notes

- Country of origin (EU 1169/2011); Optional; A / N 3.
For fishery products (EU No 1379/2013), the country of origin should be given in combination with inland fisheries / aquaculture (see production method in FTX).
(see attachment for example of "fish")
ALI+EU'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
DTM	- C	1 -	Date/time/period

Function : To specify date, and/or time, or period.
Segment number : 21

Data element group/Data element		EDIFACT	ANW	*	Description
C507	**Date/time/period**	M	**M**		
2005	Date or time or period function code qualifier	M an..3	**M**	*	94 = Production/manufacture date
2380	Date or time or period value	C an..35	**R**		
2379	Date or time or period format code	C an..3	**R**	*	102 = CCYYMMDD 718 = CCYYMMDD-CCYYMMDD

Segment notes

- Fish and seafood: Date of catch; Optional; D 8 oder D 16 (*)
(see attachment for example of "fish")
DTM+94:20160301:102' or

DTM+94:2016030120160304:718'
(*) One of these date format must be set.

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
FTX	- C	99 -	Free text

Function : To provide free form or coded text information.
Segment number : 22

Data element group/Data element		EDIFACT	ANW	*	Description
4451	**Text subject code qualifier**	M an..3	**M**	*	QQD = Quality demands/requirements PRD = Product information
4453	**Free text function code**	C an..3	**N**		
C107	**Text reference**	C	**M**		
4441	Free text value code	M an..17	**M**	*	LABELS = Label information CATCHMETHOD = Catch method CATCHAREA = Catch area PRODUCTIONMETHOD = Production methode
1131	Code list identification code	C an..17	**N**		
3055	Code list responsible agency code	C an..3	**M**	*	294 = GS1 Austria
C108	**Text literal**	C	**M**		
4440	Free text value	M an..512	**M**		
4440	Free text value	C an..512	**O**		
4440	Free text value	C an..512	**O**		
4440	Free text value	C an..512	**O**		
4440	Free text value	C an..512	**O**		
3453	**Language name code**	C an..3	**N**		
4447	**Free text format code**	C an..3	**N**		

Segment notes

- Fish and seafood: label information, coded (DE4451 = QQD; DE4441 = LABELS; DE3055 = 294; 4440 = Code; see also GS1 Sync code list: PackagingMarksLabelAccreditationCode); Optional A/N 20x512
If necessary the whole FTX segment can be repeated. (see attachment for example of "fish")
FTX+QQD++LABELS::294+AMA_ORGANIC_SEAL'

- Fish and seafood: catch method, coded (DE4451 = PRD; DE4441 = CATCHMETHOD; DE3055 = 294; 4440 = Code; see GS1 Sync code list: FishAndSeafoodCatchMethodCode); Optional A/N 10X512
If necessary, the whole FTX segment can be repeated. (see attachment for example of "fish")
FTX+PRD++CATCHMETHOD::294+LHP'

- Fish and seafood: catch area (main/sub-catch area), coded (DE4451 = PRD; DE4441 = CATCHAREA; DE3055 = 294; 4440 = Code; see GS1 Sync code list: FishAndSeafoodCatchAreaCode); Optional A/N 10X512
If necessary, the whole FTX segment can be repeated. (see attachment for example of "fish")
FTX+PRD++CATCHAREA::294+27.11'

- Fish and seafood: Production method, coded (DE4451 = PRD; DE4441 = PRODUCTIONMETHOD; DE3055 = 294; 4440 = Code; see GS1 Sync Code list: FishAndSeafoodProductionMethodCode); Optional; A/N 10X512
If necessary, the whole FTX segment can be repeated. (see attachment for example of "fish")
FTX+PRD++PRODUCTIONMETHOD::294+MARINE_FISHERY'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
MOA	- C	1 -	Monetary amount

Function : To specify a monetary amount.
Segment number : 23

Data element group/Data element		EDIFACT	ANW	*	Description
C516	**Monetary amount**	M	**M**		
5025	Monetary amount type code qualifier	M an..3	**M**	*	203 = Line item amount
5004	Monetary amount	C n..35	**R**		
6345	Currency identification code	C an..3	**R**	*	ISO 4217 3-Alpha, see code list
6343	Currency type code qualifier	C an..3	**N**		
4405	Status description code	C an..3	**N**		

Segment notes

- Line item amount (DE5004); Optional; A/N 10+3
MOA+203:20:EUR'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
SG22	- C	3 -	PCI-DTM-SG23
PCI	- M	1 -	Package identification

Function : To specify markings and labels on individual packages or physical units.
Segment number : 24

Data element group/Data element		EDIFACT	ANW	*	Description
4233	**Marking instructions code**	C an..3	**R**	*	36E = Marked with batch number (EAN Code) 38E = Marked with expiry date (EAN Code) 39E = Marked with best before date (EAN Code) 46 = Marked with packaging date
C210	**Marks & labels**	C	**N**		
7102	Shipping marks description	M an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
7102	Shipping marks description	C an..35			
8275	**Container or package contents indicator code**	C an..3	**N**		
C827	**Type of marking**	C	**N**		
7511	Marking type code	M an..3			
1131	Code list identification code	C an..17			
3055	Code list responsible agency code	C an..3			

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Segment notes

The PCI- Segment serves as a trigger for the segments where batch number, expiry date, best before date and marked with packaging date are provided.

Example:

Batch number
PCI+36E'
GIN+BX+9905'

Best before date
PCI+39E'
DTM+361:20060404:102'

Expiry date
PCI+38E'
DTM+36:20060708:102'

Marked with packaging date
PCI+46'
DTM+365:20180708:102'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
SG22	- C	3 -	PCI-DTM-SG23

DTM	- C	1 - Date/time/period

Function : To specify date, and/or time, or period.
Segment number : 25

Data element group/Data element		EDIFACT	ANW	*	Description
C507	**Date/time/period**	M	**M**		
2005	Date or time or period function code qualifier	M an..3	**M**	*	361 = Best before date 36 = Expiry date 365 = Packaging date
2380	Date or time or period value	C an..35	**R**		
2379	Date or time or period format code	C an..3	**R**	*	102 = CCYYMMDD

Segment notes

- Best before date (DE2005 = 361); Optional; D 8 (Best before date is the date until which the product keeps its specific characteristics under appropriate storage conditions. After this date the sale of the product is still allowed but the seller is responsible for the quality of the product.)
DTM+361:20060720:102'

- Expiry date (DE2005 = 36); Optional; D 8 (Expiry date is to be used by easily spoiling food products which can become in a short time an aimminent danger for the health. After expiry date the sale of the product is forbidden!)
DTM+36:20061012:102'

-Packaging date (DE2005 = 365); Optional; D 8 (Natural products as fruits and vegetablesare sold without being changed (for e.g. cut, mixed etc.). By that reason, these products are not marked with Best before date.
DTM+365:20181012:102'

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SG10	- M	9999 -	CPS-SG11-SG17
SG17	- C	9999 -	LIN-PIA-IMD-MEA-QTY-ALI-DTM-FTX-MOA-SG22
SG22	- C	3 -	PCI-DTM-SG23
SG23	- C	1 -	GIN
GIN	- M	1 -	Goods identity number

Function : To give specific identification numbers, either as single numbers or ranges.
Segment number : 26

Data element group/Data element		EDIFACT	ANW	*	Description
7405	**Object identification code qualifier**	M an..3	**M**	*	BX = Batch number
C208	**Identity number range**	M	**M**		
7402	Object identifier	M an..35	**M**		
7402	Object identifier	C an..35	**N**		
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			
C208	**Identity number range**	C	**N**		
7402	Object identifier	M an..35			
7402	Object identifier	C an..35			

Segment notes

- Batch number; Optional; A/N 35
GIN+BX+9905'

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UNT – M 1 – Message trailer				
Function : To end and check the completeness of a message. Segment number : 27				
Data element group/Data element	EDIFACT	ANW	*	Description
0074 Number of segments in the message	M n..6	**M**		Sum of all segments
0062 Message reference number	M an..14	**M**		Reference number from the UNH-Segment is to be repeated.
Segment notes This segment is a mandatory UN/EDIFACT segment. Example: UNT+35+ME000001'				

Example:

DESADV without representation of despatch units (Advanced model)

EANCOM	DESCRIPTION
UNH+3345+DESADV:D:01B:UN:EAN007'	Message Header
BGM+351+63241+9'	DESADV number: 63241
DTM+137:20040321:102'	DESADV date
DTM+17:200403240900:203'	Delivery date and time
RFF+ON:45633'	Order number
DTM+171:20040320:102'	Order date
NAD+BY+9034521000004::9'	Buyer
NAD+SU+9012345000059::9‘	Supplier
CPS+1‘	Identification of the whole consignment
LIN+1++9054443134564:SRV‘	Article on this pallet
QTY+12:120‘	Delivered quantity 120
LIN+2++9054443134564:SRV‘	Article on this returnable item (container)
QTY+12:20‘	Delivered quantity 20
UNT+14+3345‘	Message Trailer

Variable quantity products

…..	
LIN+1++9054443134564:SRV‘	1.Article
MEA+ABW+AAL+KGM:22.4'	Invoiced quantity (variable quantity product)
QTY+12:120‘	Delivered quantity 120
LIN+2++9054443134564:SRV‘	2. Article
MEA+ABW+AAL+KGM:43.6'	Invoiced quantity (variable quantity product)
QTY+12:20‘	Delivered quantity 20

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DESADV with representation of despatch units (Ideal model)
This example represents a delivery of 2 EURO-Pallets. The pallets are sort homogeneous and each of them is identified by one SSCC.

EANCOM	DESCRIPTION
UNH+3345+DESADV:D:01B:UN:EAN007‘	Message Header
BGM+351+63241+9‘	DESADV number: 63241
DTM+137:20060321:102‘	DESADV date
DTM+17:200603240900:203‘	Delivery date and time
RFF+XC1:AT-N-01-BIO‘	Organic control number of the supplier
RFF+ON:45633‘	Order number
DTM+171:20060320:102‘	Order date
RFF+VN:6433334‘	Order number (supplier)
DTM+171:20060322:102‘	Date of order number (supplier)
RFF+DQ:25644‘	Delivery note number
NAD+BY+9034521000004::9‘	Buyer
NAD+SU+9012345000059::9‘	Supplier
NAD+DP+9034521000325::9‘	Delivery party
NAD+OB+9099999300414::9’	Ordered by
NAD+UC+9099999300414::9’	Ultimate consignee
TDT+20++30‘	Means of transport
CPS+1‘	Identification of the whole consignment
PAC+2++PK	Consignment of 2 EURO-Pallets
MEA+PD+AAD+KGM:150‘	Total gross weight: 300 kg
MEA+PD+AAW+MTQ:5‘	Gross volume: 5 cubic meter
CPS+2+1‘	Identification of the first despatch unit
PAC+1++201::9‘	One EURO-Pallet
MEA+PD+AAB+KGM:100‘	Total gross weight 100 kg
MEA+PD+LN+MMT:1200‘	Length 1200 mm
MEA+PD+HT+MMT:1200'	Height
MEA+PD+WD+MMT:800'	Width
HAN+CRU::9‘	Handling instructions: crushable
PCI+33E‘	Despatch unit is identified by SSCC
GIN+BJ+390123450000000012‘	SSCC
PAC+20++PK‘	Despatch unit contains 20 packages
LIN+1++9054443134564:SRV‘	Article on this pallet
QTY+12:120‘	Delivered quantity 120
QTY+192:20‘	Delivered quantity without charging is 20
QTY+59:10’	Consumer units quantity
CPS+3+1‘	Identification of the second despatch unit
PAC+1++201:9‘	One EURO-Pallet
PCI+33E‘	Despatch unit is identified by SSCC
GIN+BJ+390123450000000001‘	SSCC
PAC+10++PK‘	Despatch unit contains 10 packages
LIN+2++9054443134564:SRV‘	Mixed assortment (display)
IMD+C++SG::9’	Identification of mixed assortment (display)

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QTY+12:20‘	Delivered quantity 20
PCI+39E‘	Trigger segment
DTM+361:20061224:102‘	Best before date
PCI+36E‘	Trigger segment
GIN+BX+23456‘	Batch number
LIN+3++9099999300414:SRV+1:2’	Article from the mixed assortment (display article)
QTY+45E:40’	2 articles per mixed assortment (display): 20x2=40
LIN+4++9099999300476:SRV+1:2’	Article from the mixed assortment (display article)
QTY+45E:20’	1 article per mixed assortment (display): 20x1=20
UNT+51+3345‘	Message Trailer

Explanation and examples of "FISH"

For the transmission of fish in the DESADV additional features are necessary, which result from the "production method fish". The composition of the features varies with the 3 possible production methods.

Attribut/ Category	**Specification for „MARINE_FISHERY“**	**Specification for „INLAND_FISHERY“**	**Specification for „AQUACULTURE“**
Production method Fish	**MARINE_FISHERY**	**INLAND_FISHERY**	**AQUACULTURE**
Catch method	mandatory	mandatory	
Catch area	mandatory		
Sub-area	mandateory/ at catch area 27 and 37		
Country of origin		mandatory	mandatory
Place of provenance		mandatory	

In addition to the transmission of additional FTX and IMD segments, the use of the ALI segment for the country of origin is therefore sometimes required.

The filling of the place of origin takes place as a pure text indication - therefore, in addition pay attention to the correct character set in the UNB segment!

The characteristics of the individual attributes are transmitted either as a code or as a text and are based on the definition of the GS1 Sync Compendium! The following assignments are given:

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Attribut/ Category	GDSN-Attribute
Production method Fish	M127 – FishAndSeafoodProductionMethodCode
Catch method	M126 – FishAndSeafoodCatchMethodCode
Catch area	M125 – FishAndSeafoodCatchAreaCode
Sub-area	M125 – FishAndSeafoodCatchAreaCode (all catch area with sub-area; e.g. 27.1)
Country of origin	M044 – CountryOfOrigin (2stelliger ISO-3166 Code)
Place of provenance	M133 – ProvenanceStatement (any text label)

Examples:

1) Marine Fishery

LIN...	
MEA+ABW+AAL+KGM:xxxxx'	For variable quantity product (KG-) article
QTY...	
FTX+PRD++PRODUCTIONMETHOD::294+MARINE_FISHERY'	Production method Fish
FTX+PRD++CATCHMETHOD::294+LHP'	Catch method
FTX+PRD++CATCHAREA::294+27.11'	Catch area (inclued sub-area)

2) Inland Fishery

LIN...	
IMD+A++PROVENANCE::246:Attersee::DE’	Place of provenance
MEA+ABW+AAL+KGM:xxxxx'	For variable quantity product (KG-) article
QTY...	
ALI+AT'	Country of origin
FTX+PRD++PRODUCTIONMETHOD::294+INLAND_FISHERY'	Production method Fish
FTX+PRD++CATCHMETHOD::294+LX'	Catch method

3) Aquaculture

LIN...	
MEA+ABW+AAL+KGM:xxxxx'	For variable quantity product (KG-) article
QTY...	
ALI+AT'	Country of origin
FTX+PRD++PRODUCTIONMETHOD::294+AQUACULTURE'	Production method Fish

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Mapping of "serialized" and "non-serialized" GRAI with SSCC structure

NON-SERIALISED GRAI (= nGRAI= Non-Serialised Global Returnable Asset Identifier)

In this example we consider 20 pallets of type <**nGRAI**>; their SSCCs range from <**SSCC-1**> to <**SSCC-20**>. (see also MTV guidelines on GS1 homepage: 8.3.2.1/ page: 30-32)

EANCOM	Beschreibung
……..	
CPS+1'	1st (highest) consignment level (= whole shipment)
PAC+20'	Current consignment level [shipment] consists of 20 [logistic] units
CPS+2+1'	2nd consignment level (parent = whole shipment): description of 1st logistic unit
PAC+1++201::9'	Current consignment level consists of 1 unit [pallet]
PCI+33E'	Packaging unit [pallet] marked with SSCC
GIN+BJ+390123450000000005'	Current packaging unit [pallet] identified by SSCC
PCI+41G'	Packaging unit [pallet] is marked with a GRAI
GIN+DA+**9099999000000**'	Current packaging unit [pallet] identified by nGRAI **<9099999000000>**
LIN+1++9099998999114:SRV'	First line item, on current logistic unit [pallet], identified by GTIN
…	
CPS+3+1'	2nd consignment level (parent = whole shipment): description of 2nd logistic unit
PAC+1++201::9'	Current consignment level consists of 1 unit [pallet]
PCI+33E'	Packaging unit [pallet] marked with SSCC
GIN+BJ+390123450000000029'	Current packaging unit [pallet] identified by SSCC
PCI+41G'	Packaging unit [pallet] is marked with a GRAI
GIN+DA+**9099999000208**'	Current packaging unit [pallet] identified by nGRAI **<9099999000208>**
LIN+2++9099998999220:SRV'	Second line item, on current logistic unit [pallet], identified by GTIN
…….	
CPS+21+1'	2nd consignment level (parent = whole shipment): description of 20th logistic unit
PAC+1++201::9'	Current consignment level consists of 1 unit [pallet]
PCI+33E'	Packaging unit [pallet] marked with SSCC
GIN+BJ+390123450000034550'	Current packaging unit [pallet] identified by SSCC
PCI+41G'	Die Verpackungseinheit [Palette] ist mit GRAI gekennzeichnet
GIN+DA+**9099999000307**'	Current packaging unit [pallet] identified by nGRAI **<9099999000307>**
LIN+20++9099998999336:SRV'	20th line item, on current logistic unit [pallet], identified by GTIN

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…	

SERIALISED GRAI (= sGRAI= Serialized Global Returnable Asset Identifier)

We take the same example as for the previous section, the only difference being the use of **sGRAI**s instead of **nGRAI**s, ranging from <**sGRAI-1**> to <**sGRAI-20**>. The SSCCs of the logistic units again range from <SSCC-1> to <SSCC-20>. (see also MTV guidelines on GS1 homepage: 8.3.2.1/ page: 30-32)

EANCOM	**Beschreibung**
…..	
CPS+1'	1st (highest) consignment level (= whole shipment)
PAC+20'	Current consignment level [shipment] consists of 20 [logistic] units
CPS+2+1'	2nd consignment level (parent = whole shipment): description of 1st logistic unit.
PAC+1++201::9'	Current consignment level consists of 1 unit [pallet]
PCI+33E'	Packaging unit [pallet] marked with an SSCC
GIN+BJ+390123450000000029'	Current packaging unit [pallet] identified by SSCC
PCI+41G'	Packaging unit [pallet] is marked with a GRAI
GIN+**DB**+**90999990000001234567890**'	Current packaging unit [pallet] identified by sGRAI. It consists of the 14-digit base number <**9099999000000**> and the serial number. <**1234567890**>
LIN+1++9099998999114:SRV'	First line item, on current logistic unit [pallet], identified by GTIN
…	
CPS+3+1'	2nd consignment level (parent = whole shipment): description of 2nd logistic unit
PAC+1++201::9'	Current consignment level consists of 1 unit [pallet]
PCI+33E'	Packaging unit [pallet] marked with an SSCC
GIN+BJ+390123450000000029'	Current packaging unit [pallet] identified by SSCC
PCI+41G'	Packaging unit [pallet] is marked with a GRAI
GIN+**DB**+**90999990002088474663A**'	Current packaging unit [pallet] identified by sGRAI It consists of the 14-digit base number <**9099999000208** > and the serial number. <**8474663A** >

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LIN+2++9099998999220:SRV'	Second line item, on current logistic unit [pallet], identified byGTIN
…	
CPS+21+1'	2nd consignment level (parent = whole shipment): description of 20th logistic unit
PAC+1++201::9'	Current consignment level consists of 1 unit [pallet]
PCI+33E'	Packaging unit [pallet] marked with an SSCC
GIN+BJ+390123450000034550'	Current packaging unit [pallet] identified by SSCC
PCI+41G'	Packaging unit [pallet] is marked with a GRAI
GIN+**DB**+**9099999000307Z837ei98**'	Current packaging unit [pallet] identified by sGRAI . It consists of the 14-digit base number **<909999900030>** and the serial number. **<7Z837ei98>**
LIN+20++9099998999336:SRV'	20th line item, on current logistic unit [pallet], identified by GTIN
…	

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