GS1 Belgium & Luxembourg

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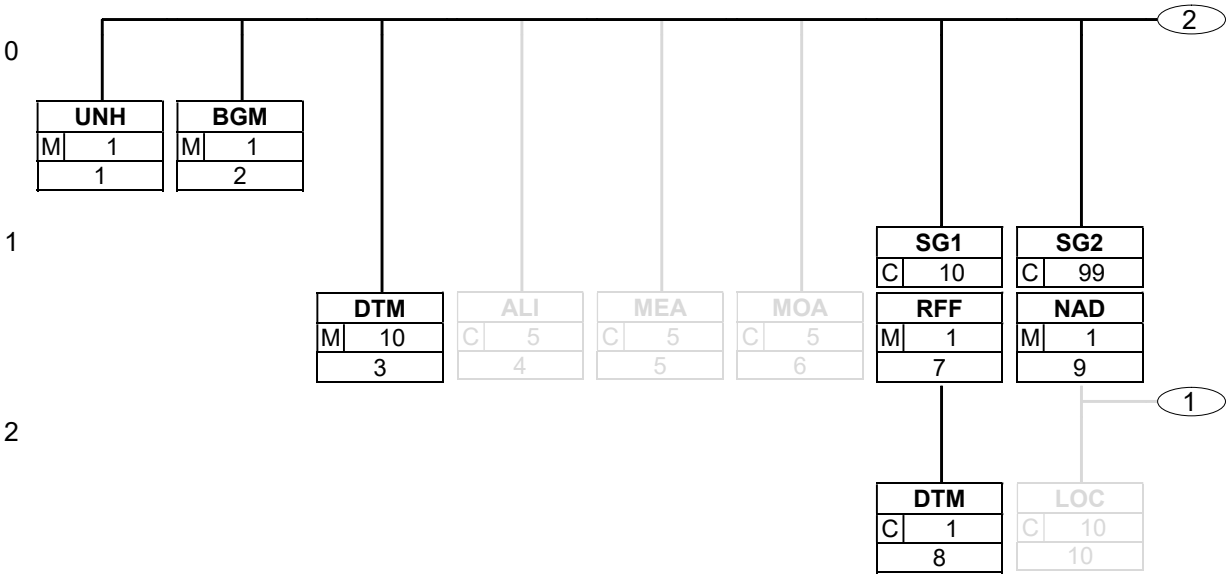
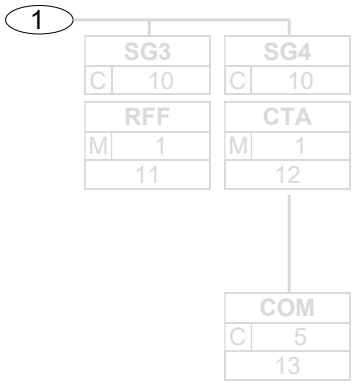
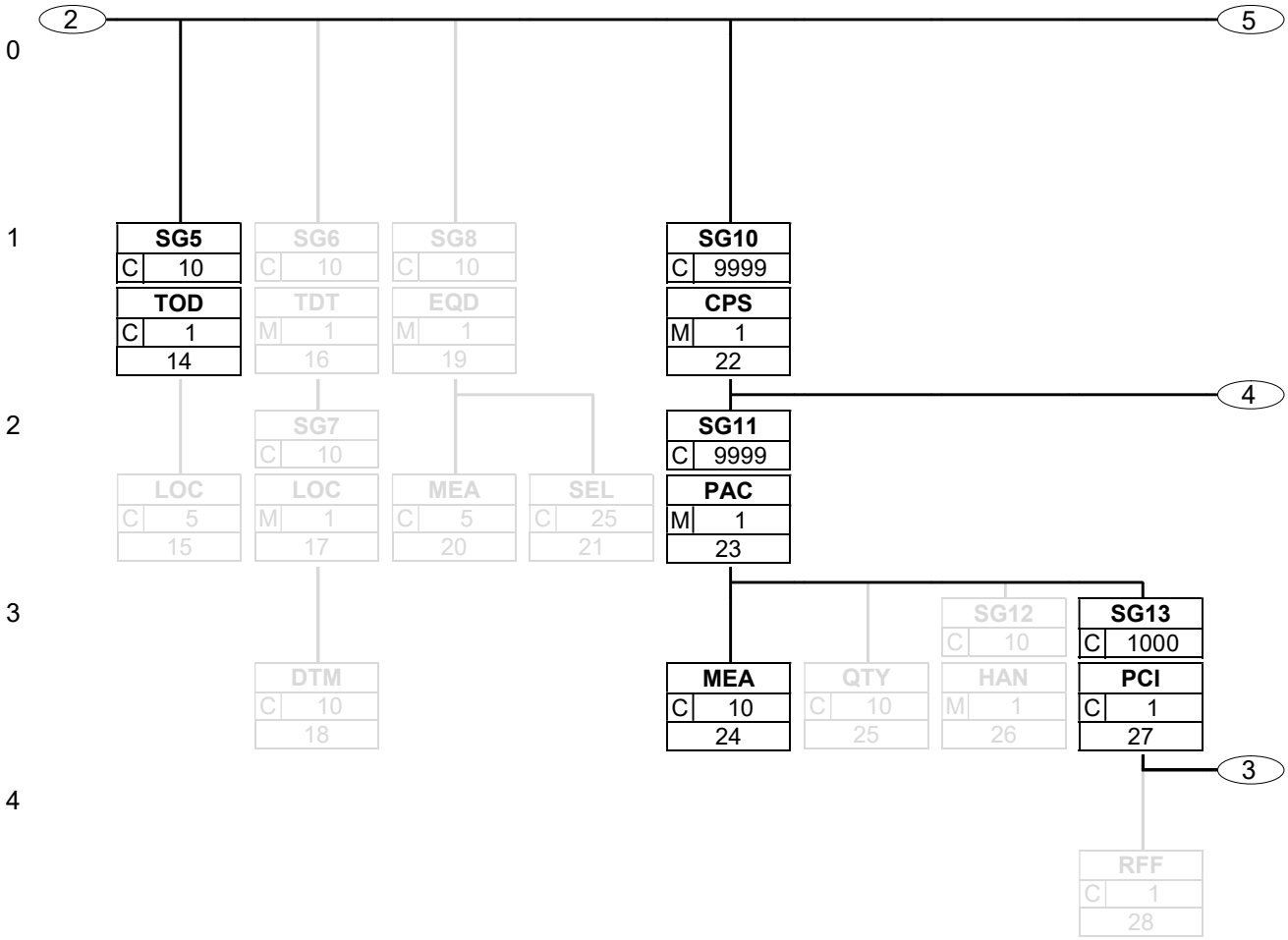
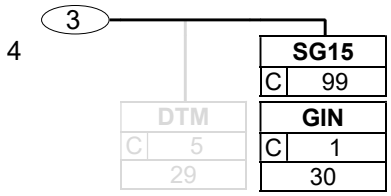
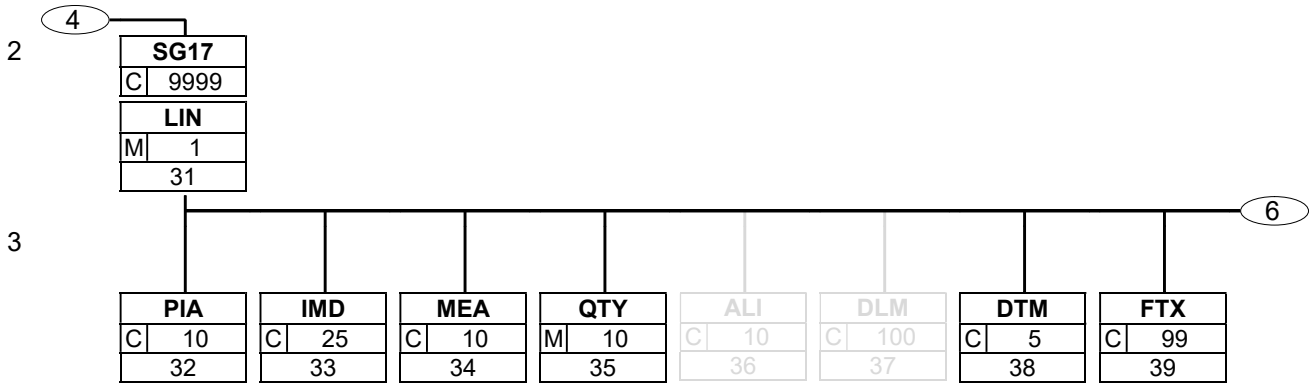
Harmonized Order to Cash (HO2C) V3.0
DESADV Branching diagram

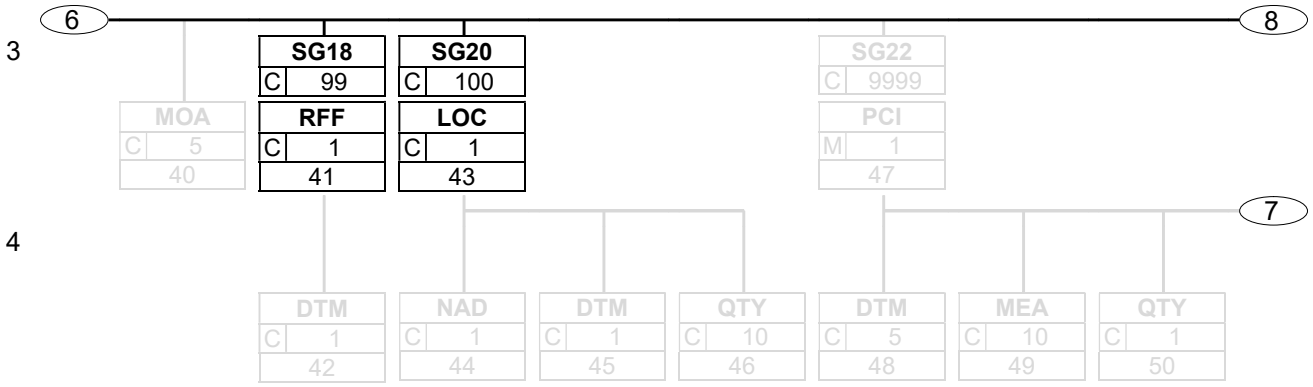

0
1
2
UNH
M 1
1
BGM
M 1
2
DTM
M 10
3
ALI
C 5
4
MEA
C 5
5
MOA
C 5
6
SG1
C 10
RFF
M 1
7
DTM
C 1
8
SG2
C 99
NAD
M 1
9
LOC
C 10
10
2
1

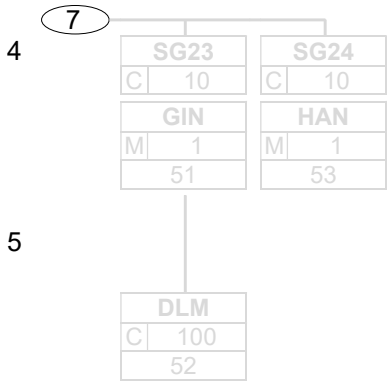

1
SG3
C 10
RFF
M 1
11
SG4
C 10
CTA
M 1
12
COM
C 5
13

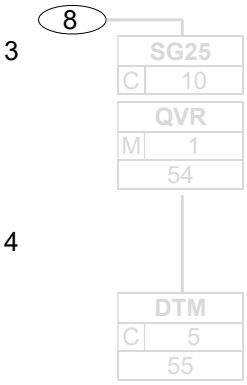

0
1
2
3
4
2
5
SG5
C 10
TOD
C 1
14
LOC
C 5
15
SG6
C 10
TDT
M 1
16
SG7
C 10
LOC
M 1
17
DTM
C 10
18
SG8
C 10
EQD
M 1
19
MEA
C 5
20
SEL
C 25
21
SG10
C 9999
CPS
M 1
22
4
SG11
C 9999
PAC
M 1
23
MEA
C 10
24
QTY
C 10
25
SG12
C 10
HAN
M 1
26
SG13
C 1000
PCI
C 1
27
3
RFF
C 1
28

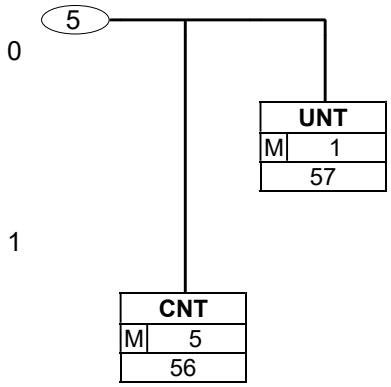

3
4
SG15
C 99
DTM
C 5
29
GIN
C 1
30


4
2
SG17
C 9999
LIN
M 1
31
6
3
PIA
C 10
32
IMD
C 25
33
MEA
C 10
34
QTY
M 10
35
ALI
C 10
36
DLM
C 100
37
DTM
C 5
38
FTX
C 99
39


6
8
3
SG18
C 99
SG20
C 100
SG22
C 9999
MOA
C 5
40
RFF
C 1
41
LOC
C 1
43
PCI
M 1
47
7
4
DTM
C 1
42
NAD
C 1
44
DTM
C 1
45
QTY
C 10
46
DTM
C 5
48
MEA
C 10
49
QTY
C 1
50


7
4
SG23
C 10
GIN
M 1
51
SG24
C 10
HAN
M 1
53
5
DLM
C 100
52


8
3
SG25
C 10
QVR
M 1
54
4
DTM
C 5
55


5
0
UNT
M 1
57
1
CNT
M 5
56

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The Global Language of Business

Harmonized Order to Cash (HO2C) V3.0
DESADV Message Implementation Guideline

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Introduction :

About the Despatch Advice

The Harmonised Order to Cash (HO2C) DESADV MIG enables a uniform implementation of the EDI despatch advice for all actors in the Belgian & Luxembourgian Fast Moving Consumer Goods and Food Service sectors.
The MIG is fully compliant to EANCOM 2002 but much more refined/precise.
HO2C is a **subset** (= "filter") of EANCOM 2002, so many segments, data elements and code qualifiers that exists in EANCOM 2002 can't be used in HO2C.

GS1 Belgilux recommends to use the DESADV in combination with the GS1 logistic label (containing the SSCC of the logistic unit).
This allows to match the 'physical flow of goods' (marked with SSCC) to the 'flow of information' (DESADV containing the SSCC), ensuring reliable track and tracing and faster reception processes.

The DESADV hierarchically describes the content per logistic unit (uniquely identified with SSCC).
Those logistic units are composed of a logistic carrier (uniquely identified with a GRAI) and trade units of articles (uniquely identified with GTINs).
Or, when applicable, the content per crate (uniquely identified by GRAI) per logistic unit (SSCC).
Although this hierarchical description is mandatory, suppliers who aren't able to describe logistic units (due the lack of functionality in the ERP/WMS system) can ask retailers an exception to use the non-hierarchical DESADV.
In that case only the number of logistic carriers and articles in the consignment need to be listed, without indication of which article is located on which carrier.

Abbreviations:

- **MIG** = Message Implementation Guideline
- **DE** = Data Element
- **SG** = Segment Group

Columns:

The following columns are present throughout the MIG:

1. Segm.# (Segment number) :	as in “full” EANCOM 2002 DESADV message
2. Segm. (Abbreviation segment name) :	as in EDIFACT / EANCOM 2002 DESADV message
3. *(if present)* **Composite DE** :	"
4. DE (Data Element Number):	"

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Koningsstraat 76 b1
1000 Brussel

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💻 : fmcg-foodservice@gs1belu.org

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

5. DE name : "

6. MaxUse : "

7. Belgilux: Describes the status of each **segment** and **DE** for the HO2C DESADV MIG.

- **Segment status**: A segment is either '**M**' (mandatory) or '**C**' (conditional).
  * Each mandatory segment has an explicit '**M**' indicated in the Belgilux column. This implies that the segment always has to be mentioned.
  * Conditional segments have '**C**' in the Belgilux column, they are only to be used when the condition specified in the segment note below is met.

- DE status: A DE is either '**R**' (required), '**D**' (dependent), '**O**' (optional) or '**N**' (not used).
  * Required **(R)** DEs/values have to be mentioned (provided the segment is used).
  * Dependent **(D)** DEs/values have to be mentioned in case the dependency specified in the segment note below, is met.
  * Optional **(O)** DEs/values may be mentioned if the sender wishes to do so, but may as well stay empty (= be skipped).
  * Not used **(N)** DEs can either be used in EDIFACT but not in global EANCOM 2002, or are not retained in the scope of this national HO2C MIG.
    These DEs are in grey to stress their nonoccurrence and for improved user comfort.

The status of the DE is repeated for each predefined value/code qualifier (see 8). All code qualifiers that have to be mentioned (depending if the condition is met), need to be described in that DE by repeating the entire segment.

8. Value:

- The DE either has a **predefined value** (from code list 'Data Elements & Code Sets directory - EANCOM 2002 edition 2012')
- or a value filled out as **<..>** because it is different each time (e.g. dates, document number, …).
  Similarly, all GS1 Identification Keys have already been filled in as **<GTIN>** or **<GLN>**.

- Note that the (predefined) values taken up in this MIG are considered to **cover all user requirements** for the Belgilux FMCG and Food Service sector.
  That is why, unlike EANCOM, this MIG does not take up the notions "open" and "restricted" code lists, since all relevant codes are already explicitly defined in the MIG.

9. DE type : as in EDIFACT / EANCOM 2002 DESADV message

10. DE length : compliant to EDIFACT / EANCOM 2002 DESADV, but in some cases more restricted

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Changelog:

V4 2025-01-27
- Added dependancy note to RFF on line level to exchange EUDR information

V3 2019-06-01
- IMD (#33): corrected harvest year (scenario wine):
  changed status DE 7077 from R to D for code F
  moved code C with same status from DE 7081 to 7077 + code 72 with same status from DE 1131 to 7081
  changed status DE 1131 from D to N
  rewrite of the dependency notes related to those DE
- IMD (#33): added scenario fish traceability:
  changed status DE 7009 from N to D
  added code X59 to DE 1131
  added code 400 to DE 3055
  rewrite of the dependency notes related to those DE
- LOC (#43): added code 306 to DE 3227 for scenario sustainable fruit & vegetables
- DTM (#38): added code 91E to DE 2005 for scenario fish traceability

V2.0 2018-01-25
- Changed url RTI list from https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.pdf into https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.xlsx in segment notes PAC (#23) and GIN (#30)

v2.0 2017-04-01
- All unused data-elements: added N in status and changed font color to grey to enhance user readability.
- UNB missing MaxUs 1 added.
- UNH (#1): deleted DE 0110 and DE0 113 that don't exist in EANCOM 2002.
- BGM (#2): changed status DE 3055 from N to D to be in line with basic EDIFACT syntax.
- DTM (#3): changed status code qualifier 11 DE 2005 from O to D. Dependent the scenario code 17 or 11 has to be used.
  linked dependency note DE 2379 to DE 2380 + deleted superfluous content in note.
  added code 719 to DE 2379 + changed status code 203 from R to D + added dependency note.
- DTM (#8): linked dependency note DE 2379 to DE 2380.
- NAD (#9): deleted reference to usage of #43 LOC in case of cross docking.
  this is only the case for transshipment is indicated in the dependency notes of #9 NAD and the segment notes of #43 LOC.
  changed status DE 3036, 3042, 3164, 3251 and 3207 from N to D + added dependency note.
- TOD (#14): added missing status C to segment + changed status DE 4055 from O to R.
- CPS (#22): changed status DE 7075 to C + added dependency note.
- PAC (#23): added missing status C to segment + rewrite of segment notes so the condition when this segment has to be used is clearer.
  added missing codes 204, 205, 206, 212 and CW to DE 7065 so each RTI of RTI list has corresponding package type code.
  + modified dependency note.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
				- MEA (#24): changed status DE 6321, 6155, 6154, 6162, 6152, 6432, 7383 from O to N. - PCI (#27): added mising C to segment. deleted codes 36E and 39E in DE 4233 + changed status code 33E to D and added new dependency note. changed status code 41G from D to R. - DTM (#29): deleted segment. - GIN (#30): deleted code BX DE 7405. - LIN (#31): added missing status M to segment. added missing dependency note to DE 7143. - IMD (#33): changed status DE 7081 and DE 1131 (C272) form NO to D + added depency note. added dependency notes to clearify use case + changed states codes DE 1131, 3055, 7008, 3453 from O to D. added status code R to DE C273. added code FR, NL, EN and DE to DE 3453. - MEA (#34): added missing status C to segment. changed status DE 6313 R to D + added dependency note. - QTY (#35): added missing status M to segment. - DTM (#38): added missing status C to segment + linked dependency note DE 2379 to DE 2380. - FTX (#39): added business case ultra-fresh products to segment notes. changed status DE 4440 (3rd one) from R to O. - RFF (#41): added missing status C to segment. changed status codes YC4 and YC5 DE 1153 from O to D. - LOC (#43): added missing status C to segment. changed status codes DE 3227 related to meat tracebility from O to D + deleted code 27. - CNT (#56): changed status segment from C to M.					
v1.1	2016-02-01			- UNB DE 0026 Status changed from O to R to always indicate as an Harmonized message.						
v1.0	2015-08-01			- UNB DE 0026 value added. - NAD (#9) DE 3035 code value UC added (for cross docking -only 1 ultimate destination- to have the same approach in the order and the DESADV). - LOC (#43) recommendation specified to use only in case of transshipment (= 'n' ultimate destinations).						
v1.0	2014-01-01			Release of the harmonized O2C DESADV. Discrepancies in regards to IDEAL DESADV v1.3 (of 01/05/2012): - UNB and UNZ added. UNB DE 0026 values deleted. - For each segment, status specified. - For each DE, status of each code value specified. For every code value with status 'D', requirement/condition specified. - BGM (#2) DE 1001 code value 35E deleted.						

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
				- RFF (#7) DE 1153 code values AWT, VN and AAO added. Code value ABT deleted. - RFF (#7) recommendation specified in case no order number is available. - DTM (#8) added. - NAD (#9) DE 3035 code values SH and UC deleted, recommendations specified. - TOD (#14) added. - TDT (#16) deleted. - PAC (#23) DE 7065 several code values added. (14/2/14: Code value FW and CW deleted because not relevant anymore). - MEA (#24) DE 6411 code values LTR and MTR added. DE 6313 code values AAF and TC deleted and DE 6411 code value CEL deleted. - PCI (#27) DE 4233 code values IEAN and 34E deleted. - DTM (#29) DE 2005 code value 36 deleted. - GIN (#30) DE 7405 code values RTN and RTS replaced by respectively DA and DB. Code value SRV deleted. - PIA (#32) DE 7143 code value XZ5 replaced by SUE. Code values SA and BP added. Code value PV not withheld. - MEA (#34) DE 6411 code values LTR and MTR added. - QTY (#35) DE 6063 code value 59 added. Code value 192 deleted. - DTM (#38) DE 2005 code values X20 and 2BE added. Code value 36 deleted. - FTX (#39) added. - MOA (#40) deleted. - RFF (#41) DE 1153 code value AWT added. Code value ON deleted. - LOC (#43) DE 3227 code values 243 and 244 added. DE 3055 code value 6 corrected by code value 60. - LOC.QTY (#46) deleted. - PCI (#47), DTM (#48) and GIN (#51) deleted. - QVR (#54) deleted.					

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
	UNB			**Interchange header**	1	M				
	UNB	**S001**		**Syntax identifier**		R				
	UNB	S001	0001	Syntax identifier		R	**UNOC**	= covers UNOA, UNOB (small characters) and certain foreign characters	A	1>4
	UNB	S001	0002	Syntax version number		R	**3**	= Syntax version 3	N	1
	UNB	**S002**		**Interchange sender**		R				
	UNB	S002	0004	Sender identification		R	**<GLN>**	= sender GLN (Limited to 13 characters)	N	1>13
	UNB	S002	0007	Partner identification code qualifier		R	**14**	= GS1	AN	1>4
	UNB	S002	0008	Address for reverse routing		O			AN	1>14
	UNB	**S003**		**Interchange recipient**		R				
	UNB	S003	0010	Recipient identification		R	**<GLN>**	= recipient GLN (Limited to 13 characters)	N	1>13
	UNB	S003	0007	Partner identification code qualifier		R	**14**	= GS1	AN	1>4
	UNB	S003	0014	Routing address		O			AN	1>14
	UNB	**S004**		**Date/time of preparation**		R				
	UNB	S004	0017	Date of preparation		R	**<…>**	date format YYMMDD	N	1>6
	UNB	S004	0019	Time of preparation		R	**<…>**	time format HHMM	N	1>4
	UNB		0020	Interchange control reference		R	**<…>**	Unique reference number generated through the sender to identify the interchange	AN	1>14
	UNB	**S005**		**Recipient's reference password**		O				
	UNB	S005	0022	Recipient's reference/password		O			AN	1>14
	UNB	S005	0025	Recipient's reference/password qualifier		O			AN	1>2
	UNB		0026	Application reference		R	BELU_V3	= Harmonized Order-to-Cash version 3	AN	1>14
	UNB		0029	Processing priority code		N			A	1
	UNB		0031	Acknowledgment request		N			N	1
	UNB		0032	Communications agreement ID		N			AN	1>35
	UNB		0035	Test indicator		D	**1**	Interchange is a test	N	1

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
This segment (together with UNZ) is used to envelope the interchange, as well as to identify both the party to whom the interchange is sent and the party who has sent the interchange. The principle of the UNB segment is the same as a physical envelope which contains one or more letters, and which details both the address where delivery is to take place and the address from where the envelope comes. Dependency notes: DE0035: only use this DE with code 1 when the message is in test. For messages in production, DE 0035 is not used.										

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
1	**UNH**			**Message header**	1	M				
	(UNH-UNT)				(99999)					
	UNH		0062	Message reference number		R	<..>		AN	1>14
	UNH	**S009**		**Message identifier**		R				
	UNH	S009	0065	Message type		R	**DESADV**	= Despatch Advice message	AN	1>6
	UNH	S009	0052	Message version number		R	**D**	= Draft version/UN/EDIFACT directory	AN	1>3
	UNH	S009	0054	Message release number		R	**01B**	= Release 2001-B	AN	1>3
	UNH	S009	0051	Controlling agency		R	**UN**	= UN/CEFACT	AN	1>2
	UNH	S009	0057	Association assigned code		R	**EAN007**	= GS1 version control number	AN	1>6
	UNH		0068	Common access reference		N			AN	1>35
	UNH	**S010**		**Status of the transfer**		**N**				
	UNH	S010	0070	Sequence of transfers		N			N	1>2
	UNH	S010	0073	First and last transfer		N			A	1>1

This segment is used to head, identify and specify a message.

Segment notes:
The use of this segment is mandatory.

DEs **0065**, **0052**, **0054**, and **0051**: Indicate that the message is an UNSM Despatch Advice based on the D.01B directory under the control of the United Nations.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
2	**BGM**			**Beginning of message**	1	M				
	BGM	**C002**		**Document/message name**		R				
	BGM	C002	1001	Document name code		D D	**351** **YA6**	= Despatch advice = Pre-packed cross docking despatch advice	AN	1>3
	BGM	C002	1131	Code list identification code		N			AN	1>17
	BGM	C002	3055	Code list responsible agency code		D	9	= GS1	AN	1>3
	BGM	C002	1000	Document name		N			AN	1>35
	BGM	**C106**		**Document/message identification**		R				
	BGM	C106	1004	Document identifier		R	<..>		AN	1>35
	BGM	C106	1056	Version identifier		N			AN	1>9
	BGM	C106	1060	Revision identifier		N			AN	1>6
	BGM		1225	Message function code		R	**9**	= Original	AN	1>3
	BGM		4343	Response type code		N			AN	1>3

This segment is used to indicate the type and function of the message and to transmit the identifying number.

Segment notes:
The use of this segment is mandatory.
- DE 1004: Although the **document number** may have up to 35 characters according to EANCOM recommendations, the best practice is to restrict it to **14 characters**.
- The best practice is to mention the same document number as the one on the paper delivery note.
- All references other than the document number (in DE 1004) are to be put in the RFF segment (#7).

Dependency notes:
- DE 1001: Always indicate it concerns a **despatch advice** (BGM+351), except in case of cross docking (only 1 ultimate destination) or transshipment ('n' ultimate destinations). In these cases you mention #2 BGM+YA6, together with #43 LOC+7 for transshipment or #9 NAD+UC for cross docking.
- DE 3055: Since document name code YA6 isn't an EDIFACT code, but a temporary GS1 code, DE 3055 should contain value 9.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
3	**DTM**			**Date/time/period**	10	M				
	DTM	**C507**		**Date/time/period**		R				
	DTM	C507	2005	Date or time or period function code qualifier		R	**137**	= Document/message date/time	AN	1>3
						R	**2**	= Requested delivery date/time		
						D	**17**	= Estimated delivery date/time		
						D	**11**	= Despatch date and/or time		
	DTM	C507	2380	Date or time or period value		R	<..>		AN	1>24
	DTM	C507	2379	Date or time or period format code		D	**203**	= CCYYMMDDHHMM	AN	1>3
						D	**719**	= CCYYMMDDHHMMCCYYMMDDHHMM		

This segment is used to specify the date of the Despatch Advice or any dates related to the delivery of goods.

Dependency notes:

- DE 2005:
  * Always mention the document message date (DTM+137) and the requested delivery date (DTM+2).
  * Furthermore, the **estimated delivery date** (DTM+17) is always expected, except in case of backhauling.
  * In case of **backhauling** (meaning **"**the buyer picks up the goods"), the supplier may optionally mention 'the date on which the goods are expected to be shipped' (DTM+11).
    Note however that a collection date should be arranged beforehand. Under no circumstance should the DESADV be used as a way to agree a pickup date.

- DE 2380: In case no detailed time information is available, fill in 0000 for the hour and minutes (HHMM).

- DE 2379: code 719 only can be optionally used for DESADVs that are linked to a home delivery order and only in DTM+2 and DTM+17 segments.
  DTM+2:CCYYMMDDHHMMCCYYMMDDHHMM:719' can be used when the end consumer is able to select a time slot on the website of the retailer.
  (for instance morning CCYYMMDD0800CCYYMMDD1200, afternoon CCYYMMDD1200CCYYMMDD1600 or evening CCYYMMDD1600CCYYMMDD2000)
  DTM+17:CCYYMMDDHHMMCCYYMMDDHHMM:719' can be useful when there is no "track & trace" solution that allows the retailer to be informed when the goods will be delivered to its client.
  In all other cases code 203 should be used.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG1	**RFF-DTM**				10					
7	**RFF**			**Reference**	1	M				
	RFF	**C506**		**Reference**		R				
	RFF	C506	1153	Reference code qualifier		R D D O	**ON** **AWT** **VN** **AAO**	= Order number (buyer) = Administrative Reference Code = Order number (supplier) = Consignee's shipment reference number (reservation number dock scheduling)	AN	1>3
	RFF	C506	1154	Reference identifier		R	<..>		AN	1>70
	RFF	C506	1156	Document line identifier		N			AN	1>6
	RFF	C506	4000	Reference version identifier		N			AN	1>35
	RFF	C506	1060	Revision identifier		N			AN	1>6

This segment is used to provide references that apply to the whole transaction.

Segment notes:
- Identification of the '**order number**' (ON) is ALWAYS required. In case no 'order number' is available, mention RFF+ON:NA' (NA meaning 'Not applicable').
- In case **several** orders are consolidated in one shipment (n ORDERS <> n DESADV), each order generates one despatch advice.
- If both 'order number' (ON) and '**delivery schedule number**' (AAO) are mentioned in the DESADV, they should be mentioned in separate segment lines.

Dependency notes:
- In case of **VMI**, the DESADV should also mention the number of the Order Proposal (RFF+**VN**).
- In case of **excise goods**, the 'Administrative Reference Code' **(AWT)** may be identified. If AWT is mentioned on both header and line level, then RFF+AWT on line level (#41) precedes the Administrative Reference Code on header level.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG1	**RFF-DTM**				10					
8	**DTM**			**Date/time/period**	1	C				
	DTM	**C507**		**Date/time/period**		R				
	DTM	C507	2005	Date or time or period function code qualifier		R	**171**	= Reference date/time	AN	1>3
	DTM	C507	2380	Date or time or period value		R	<..>		AN	1>12
	DTM	C507	2379	Date or time or period format code		R	**203**	= CCYYMMDDHHMM	AN	1>3

This segment is used to specify dates relating to the references given in the previous RFF segment.

Segment notes:
- Only use this segment in case there is **no referring order number** available (RFF+ON:NA'). In that case, try to mention any other details about the order e.g. its date.

Dependency notes:
- DE 2380: In case no detailed time information is available, fill in 0000 for the hour and minutes (HHMM).

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG2	**NAD**				99					
9	**NAD**			**Name and address**	1	M				
	NAD		3035	Party function code qualifier		R	**BY**	= Buyer	AN	1>3
						R	**SU**	= Supplier		
						R	**DP**	= Delivery party (party to which goods should be delivered)		
						D	**SF**	= Ship from		
						O	**DEQ**	= Shipper (party responsible for the shipment of goods)		
						D	**UC**	= Ultimate consignee		
	NAD	**C082**		**Party identification details**		R				
	NAD	C082	3039	Party identifier		R	<GLN>		AN	1>13
	NAD	C082	1131	Code list identification code		N			AN	1>17
	NAD	C082	3055	Code list responsible agency code		R	**9**	= GS1	AN	1>3
	NAD	**C058**		**Name and address**		N				
	NAD	C058	3124	Name and address description		N			AN	1>35
	NAD	C058	3124	Name and address description		N			AN	1>35
	NAD	C058	3124	Name and address description		N			AN	1>35
	NAD	C058	3124	Name and address description		N			AN	1>35
	NAD	C058	3124	Name and address description		N			AN	1>35
	NAD	**C080**		**Party name**		D				
	NAD	C080	3036	Party name		D			AN	1>35
	NAD	C080	3036	Party name		N			AN	1>35
	NAD	C080	3036	Party name		N			AN	1>35
	NAD	C080	3036	Party name		N			AN	1>35
	NAD	C080	3036	Party name		N			AN	1>35
	NAD	C080	3045	Party name format code		N			AN	1>3
	NAD	**C059**		**Street**		D				
	NAD	C059	3042	Street and number or post office box identifier		D			AN	1>35
	NAD	C059	3042	Street and number or post office box identifier		N			AN	1>35
	NAD	C059	3042	Street and number or post office box identifier		N			AN	1>35
	NAD	C059	3042	Street and number or post office box identifier		N			AN	1>35

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
	NAD		3164	City name		D			AN	1>35
	NAD	C819		Country sub-entity details		N				
	NAD	C819	3229	Country sub-entity name code		N			AN	1>9
	NAD	C819	1131	Code list identification code		N			AN	1>17
	NAD	C819	3055	Code list responsible agency code		N			AN	1>3
	NAD	C819	3228	Country sub-entity name		N			AN	1>70
	NAD		3251	Postal identification code		D			AN	1>17
	NAD		3207	Country name code		D			AN	1>3

This segment is used to identify the trading partners involved in the Despatch Advice message.

Segment notes:
The DESADV is restricted to "**1 delivery address only**".
The GLN in NAD+DP is to be considered as the address where the goods will be delivered.
In case of direct shop delivery this is the GLN of the store. In case of cross docking or transshipment, it is the GLN of a DC.
In this last case, the GLN of the store for which the goods are ultimately intended must be mentioned:
* for cross docking: NAD+UC
* for transshipment: #43 LOC+7 segment that follows each #31 LIN segment

In case of home delivery the segments NAD+DP and NAD+UC are used to flag a specific subscenario:

	NAD+DP	NAD+UC
1) delivery address = invoice address end consumer	Dummy GLN 0000000000000 No address in plain text	Dummy GLN 0000000000000 Address in plain text
2) delivery address ≠ invoice address end consumer (can be relative or work)	Dummy GLN 0000000000000 Address in plain text	Dummy GLN 0000000000000 Address in plain text
3) delivery address is a shop	Real GLN shop or DC No address in plain text	Dummy GLN 0000000000000 No address in plain text

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Dependency notes:

- DE 3035:

* Code values "**SU**" (supplier) and "**DP**" (destination party) of goods and services are always mandatory, even if the GLN of the buyer and the delivery party are the same. Also, in case of home delivery NAD+DP will be used. When the end consumer needs to pick up the goods in a shop, the GLN of the shop will be used in DE 3039. When the goods will be delivered at home, at the house of a relative or at the workplace, the dummy GLN 0000000000000 will be used in DE 3039.

* Code value "**SF**" (ship from) shoulde be used in 2 cases:
  1) In case of a **platform order** when the goods are shipped from the site of the logistic service provider. In that case, the GLN of the logistic service provider is to be specified in NAD+SF.
  2) In case of **backhauling** when the buyer picks up the goods, the GLN of the pickup address is to be specified in NAD+SF. Optionally, the supplier may add the explicit mention that 'the buyer picks up the goods' via #14 TOD+4 (=collected by customer) and 'the date on which the goods are expected to be shipped' via #3 DTM+11, despatch date. Note that a collection date should be arranged beforehand. Under no circumstance should the DESADV be used as a way to agree a pickup date.

* Code value "**UC**" (ultimate consignee) shoulde be used in 2 cases:
  1) in case of cross docking; to specify '1' ultimate destination. When there are 'n' ultimate destinations however (also called 'transshipment'), use #43 LOC.
  2) in case of home delivery: to specify that the ultimate consignee is an end consumer. This is indicated with the dummy GLN 0000000000000 in DE 3039.

- DE 3036, 3042, 3164, 3251 and 3207: this DE can only be used in:
  * NAD+DP: in case of home delivery if the delivery address is not the same as the invoice address of the end consumer, these DEs should be used to specify the alternative delivery address. This can be the address of a relative or the company where the end consumer works. The DEs shouldn't be used when the end consumer wants the goods to be delivered in a store. Since that store has a real GLN and the address is exchanged via master data.
  * NAD+UC: in case of home delivery order this DEs should be used to specify the address of the end consumer, except in the case he chooses that the goods should be delivered in a shop.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG5	**TOD**				10					
14	**TOD**			**Terms of delivery or transport**	1	C				
	TOD		4055	Delivery or transport terms function code		R	**4**	= Collected by customer	AN	1>3
	TOD		4215	Transport charges payment method code		N			AN	1>3
	TOD	**C100**		**Terms of delivery or transport**		N				
	TOD	C100	4053	Delivery or transport terms description code		N			AN	1>3
	TOD	C100	1131	Code list identifcation code		N			AN	1>17
	TOD	C100	3055	Code list responsible agency code		N			AN	1>3
	TOD	C100	4052	Delivery or transport terms description		N			AN	1>70
	TOD	C100	4052	Delivery or transport terms description		N			AN	1>70

This segment is used to specify the terms of delivery for the despatch advice.

Segment notes:
In case of backhauling (meaning 'the buyer picks up the goods'), the GLN of the pickup address is to be specified in #9 NAD+SF (ship from).
Optionally, the supplier may add the explicit mention that ‘the buyer picks up the goods’ (via #14 TOD+4)
and ‘the date on which the goods are expected to be shipped’ (via #3 DTM+11, despatch date).
Note that a collection date should be arranged beforehand. Under no circumstance should the DESADV be used as a way to agree a pickup date.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
22	**CPS**			**Consignment packing sequence**	1	M				
	CPS		7164	Hierarchical structure level identifier		R	<..>	Sequence (1, 2, 3, 4 …)	AN	1>35
	CPS		7166	Hierarchical structure parent identifier		D	<..>	Packing level - refers to the sequence n° of the packing being described.	AN	1>35
	CPS		7075	Packaging level code		C	4	No packaging hierarchy	AN	1>3

This segment is used to identify the sequence and hierarchy in which packing of the consignment occurs.

Segment notes:

- This segment allows to illustrate **how the consignment is (hierarchically) structured**. Based on the illustration below, the DESADV can thus specify that

(1) the truck is loaded with 4 logistic carriers.
(2) of which the first logistic carrier is a standard pallet with dimensions 80 x 120 cm of which the specific type (like CHEP, EPAL, …) is identified by nGRAI X
it carries 40 cartons that are trade units whose GTIN is mentioned in the corresponding LIN segment,
(3) the second packing is a standard pallet with dimensions 80 x 120 cm of which the specific type is identified by nGRAI X
(4) carrying 14 crates of which the specific type is identified by nGRAI Y, which contain in total 28 units of the GTIN mentioned in the LIN segment.
(5) the third packing is a standard pallet with dimensions 80 x 120 cm of which the specific type is identified by nGRAI X carrying 40 cartons,
(6) and so is the fourth packing.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

DESADV extract example

(1) CPS+1' General/entire consignment
PAC+4' There are 4 (loaded) logistic carriers
(2) CPS+2+1' The first packing (pallet level) will be described
PAC+1++201' It concerns a standard pallet with dimensions 80 X 120 cm
… Description of the pallet composition (SSCC, nGRAI and content)
(3) CPS+**3**+1' The next packing (still on pallet level) will be described
PAC+1++201' It concerns a standard pallet 80x120 cm
… Description of its SSCC and nGRAI
(4) CPS+4+**3'** The packing within the pallet (crate level) will be described
PAC+14++CR' It concerns 14 crates
… Description of its nGRAI and the content of the crates
(5) CPS+**5**+1'
(6) CPS+**6**+1'

- **DE 7166** defines the packing level (e.g. pallet or crate level). It allows to establish the hierarchical relationships in a top-down structure.
  The first CPS segment however (CPS+1') does not indicate a packing level because it refers to the general/entire consignment.
- When to add a CPS segment? Only **relevant** if the packing needs to be distinguished from one another,
  e.g. because it's identified by SSCC, or because the pallet type/ crate type is to be identified for RTI management (because it's charged with a deposit or it has to return).
- Only reusable packaging should be described. Disposable packaging like cardboard pallet boxes or outer carton cases shouldn't be described.

For more examples, see the annex 'DESADV examples'.

Dependency notes:
- DE 7166: each CPS segment should be linked to a preceding CPS segment, except for CPS+1
- DE 7075: this DE with code 4 can only be used when a supplier gets the permission to send a non-hierarchical description of a consignment.
  CPS+1++4' means that only the number of logistic carriers and articles in the consignment are described, without indication which article is located on which logistic carrier. In other words: no logistic units should be described. (For an example, check the annex 'DESADV examples')

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG11	**PAC-MEA-SG13**				9999					
23	**PAC**			**Package**	1	M				
	PAC		7224	Package quantity		R	<..>	To specify the number of packages	N	1>8
	PAC	**C531**		**Packaging details**		N				
	PAC	C531	7075	Packaging level code		N			AN	1>3
	PAC	C531	7233	Packaging related description code		N			AN	1>3
	PAC	C531	7073	Packaging terms and conditions code		N			AN	1>3
	PAC	**C202**		**Package type**		D				
	PAC	C202	7065	Package type description code		R	<RTI list>	*Select the corresponding package type description code from the RTI list*	AN	1>17
	PAC	C202	1131	Code list identification code		N			AN	1>17
	PAC	C202	3055	Code list responsible agency code		N			AN	1>3
	PAC	C202	7064	Type of packages		N			AN	1>35
	PAC	**C402**		**Package type identification**		N				
	PAC	C402	7077	Description format code		N			AN	1>3
	PAC	C402	7064	Type of packages		N			AN	1>35
	PAC	C402	7143	Item type identification code		N			AN	1>3
	PAC	C402	7064	Type of packages		N			AN	1>35
	PAC	C402	7143	Item type identification code		N			AN	1>3
	PAC	**C532**		**Returnable package details**		N				
	PAC	C532	8395	Returnable package freight payment responsibility c		N			AN	1>3
	PAC	C532	8393	Returnable package load contents code		N			AN	1>3

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

This segment is used to identify the total number of packages per hierarchical level (identified in the CPS segment (#22)) in the shipment.
The contents of each package is subsequently described in the following LIN segment (#31).

Segment notes:

- Each CPS-segment which indicates the level of the packaging within the entire consigment, should be followed by a PAC-segment that describes the number and the type of packaging.
- Difference between "package type description codes" and "GRAIs" used to indentify logistic carriers/RTIs:
  * **Package types descriptions** are considered to be generic and identify a class of logistic carriers.
    One package type description code can refer to several logistic carriers that have the same specifications (like dimensions).
    This package type description needs to be described via this segment #23 PAC.
  * **GRAIs** are considered to identify specific logistic carriers/RTI (like a GTIN identifies a specific trade unit of a good).
    It means that the logistic carrier has a kind of "product name" and is owned by specific party.
    GRAI can be described using #27 PCI+41G' and #30 GIN+DA+<nGRAI>'.
- Both package type description codes and GRAIs should be mentioned in the DESADV.
- The RTI list can be downloaded over here: https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.xlsx
- Only reusable packaging should be described. Disposable package like a carton box on a pallet (that is thrown away once the good are put on the shelves) should not be described.
- For **self-assembled trolleys** (TRE) that can only be identified by (the nGRAI of) its composing parts (e.g. wheels, shelves), check the annex 'DESADV examples'.

Dependency notes:

DE7065:

- this data element should always be used, except when the PAC-segment is preceded by a CPS+1-segment, since one consignment can contain several types of packaging.
- For plastic crates, the best practice is to mention CR (crates) instead of BX (boxes).

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG11	**PAC-MEA-SG13**				9999					
24	**MEA**			**Measurements**	10	C				
	MEA		6311	Measurement purpose code qualifier		R	**PD**	= Physical dimensions	AN	1>3
	MEA	**C502**		**Measurement details**		R				
	MEA	C502	6313	Measured attribute code		D	**AAC**	= Total net weight (Total weight of goods excluding packing)	AN	1>3
						O	**T**	= Tare weight (Weight excluding goods and loose accessories)		
	MEA	C502	6321	Measurement significance code		N			AN	1>3
	MEA	C502	6155	Non-discrete measurement name code		N			AN	1>17
	MEA	C502	6154	Non-discrete measurement name		N			AN	1>70
	MEA	**C174**		**Value/range**		R				
	MEA	C174	6411	Measurement unit code		D	**KGM**	= Kilogram	AN	1>3
						D	**LTR**	= Liter		
						D	**MTR**	= Meter		
	MEA	C174	6314	Measurement value		R	<..>	Max 3 digits after the decimal point.	AN	1>18
	MEA	C174	6162	Range minimum value		N			N	1>18
	MEA	C174	6152	Range maximum value		N			N	1>18
	MEA	C174	6432	Significant digits quantity		N			N	1>2
	MEA		7383	Surface or layer code		N			AN	1>3

This segment is used to provide measurements relevant to the packaging unit and level described in the PAC segment.

Segment notes:
- When indication of weight is relevant, the total **net weight** (AAC) is required on line level (#34 MEA), and **optional** at logistic unit level (#24 MEA).
  If weight is mentioned on both levels, the net weight on line level (#34) precedes the net weight on logistic unit level (#24).
- The weight should be mentioned per logistic unit and can optionally be mentioned for the entire consignement.

Dependency notes:
- DE 6313: Only mention '**tare weight**' (**T**) in case of a 'wooden pallet carrying variable weight products' and provided it's **bilaterally agreed beforehand**.
  At goods reception, when the logistic unit is weighed, the retailer may need to know the tare weight to deduct from the gross weight, in order to verify the net weight.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG11	**PAC-MEA-SG13**				9999					
SG13	**PCI-SG15**				1000					
27	**PCI**			**Package identification**	1	C				
	PCI		4233	Marking instructions code		D R D	**33E** **41G** 16	= Marked with SSCC = Marked with GS1 GRAI = Buyer's instructions (only for bulk meat)	AN	1>3
	PCI	**C210**		**Marks & labels**		D				
	PCI	C210	7102	Shipping marks description		D	<…>	(E.g. For bulk meat: 1A, 1B, 1C, 1D, 2A, …)	AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI	C210	7102	Shipping marks description		N			AN	1>35
	PCI		8275	Container or package contents indicator code		N			AN	1>3
	PCI	**C827**		**Type of marking**		N				
	PCI	C827	7511	Marking type code		N			AN	1>3
	PCI	C827	1131	Code list identification code		N			AN	1>17
	PCI	C827	3055	Code list responsible agency code		N			AN	1>3

This segment is used to provide markings and labels information relevant to the packaging unit and level identified in the PAC segment (#23).

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Segment notes:
- This segment should be used in combination with #30 GIN to describe:
  * **logistic units** that are uniquely identified by a SSCC
  * **logistic carriers/RTIs** that are uniquely identified by a GRAI

It can also be used for a specific business case for bulk meat.
- Logistic units are the combination of the logistic carriers that are indicated on the highest level of the consignment (PAC segment that follows after CPS+1) that actually touch the ground and are manipulated by spikes and pallet trucks + the articles that are stacked on it.
  Hence there should be a PCI+33E segment that mentions the SSCC after every PAC segment that comes in its turn after a CPS segment with "hierarchical structure parent identifier" 1. (for instance CPS+2+**1**, CPS+4+**1, …)**
- In case of **RTI management**, identify the (type of) asset (e.g. pallet / crate / other) with a nGRAI (for the type of asset) or sGRAI (for serialized RTI): see 'DESADV examples' for more information.
- This segment isn't used in case of a non-hierarchical description of a consignment (indicated with CPS+1++4')

Dependency notes:
- DE 4233:
  * Code 33E: should be used in each PCI segment that follows a PAC segment that describes a logistic unit.
  * Code 16: only use for the specific business case (described below) and provided it's bilaterally agreed beforehand.
    This is for meat suppliers who deliver 'bulk meat that doesn't fit in/on 1 asset (/logistic carrier/RTI e.g. crate) but that has to stay together (when delivered to the stores).
    PCI+16 assigns an **additional identifier** to each serialized crate, which implies that certain crates are connected to one another (PCI+16+1A; PCI+16+1B;...).
    For more information, see 'DESADV examples'.
- DE 7102: only used when DE 4233 contains code 16.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG11	**PAC-MEA-SG13**				9999					
SG13	**PCI-SG15**				1000					
SG15	**GIN**				99					
30	**GIN**			**Goods identity number**	1	C				
	GIN		7405	Object identification code qualifier		D D D	**BJ** **DA** **DB**	= Serial shipping container code = GS1 Global Returnable Asset identifier, without serial number (for nGRAI) = GS1 Global Returnable Asset identifier, with serial number (for sGRAI)	AN	1>3
	GIN	**C208**		**Identity number range**		R				
	GIN	C208	7402	Object identifier		R	<..>		AN	1>35
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	**C208**		**Identity number range**		N				
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	**C208**		**Identity number range**		N				
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	**C208**		**Identity number range**		N				
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	**C208**		**Identity number range**		N				
	GIN	C208	7402	Object identifier		N			AN	1>35
	GIN	C208	7402	Object identifier		N			AN	1>35

This segment is used to provide identification numbers relevant to the packaging unit and level identified in the PAC segment (#23).

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Segment notes:
- Each #27 PCI segment that indicates that a logistic unit or a logistic carrier/RTI is identified by a SSCC or a GRAI respectively, should be followed by a GIN segment that contains that identifier.
- If the segment is used to mention a nGRAI, select the GRAI from the RTI list.
The list can be downloaded over here: https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.xlsx
- This segment isn't used in case of a non-hierarchical description of a consignment (indicated with CPS+1++4')

Dependency notes:
- DE 7405: The different code values are univocally linked with DE 4233 of the PCI segment (#27) as follows:

marked with :	PCI (#27)	GIN (#30):
- GRAI:	41G	DA or DB
- SSCC:	33E	BJ

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Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
31	**LIN**			**Line item**	1	M				
	LIN		1082	Line item identifier		R	<..>		AN	1>6
	LIN		1229	Action request/notification description code		N			AN	1>3
	LIN	**C212**		**Item number identification**		R				
	LIN	C212	7140	Item identifier		D	<GTIN>		AN	1>14
	LIN	C212	7143	Item type identification code		D	**SRV**	= Global trade item number	AN	1>3
	LIN	C212	1131	Code list identification code		N			AN	1>17
	LIN	C212	3055	Code list responsible agency code		N			AN	1>3
	LIN	**C829**		**Sub-line information**		N				
	LIN	C829	5495	Sub-line indicator code		N			AN	1>3
	LIN	C829	1082	Line item identifier		N			AN	1>6
	LIN		1222	Configuration level number		N			N	1>2
	LIN		7083	Configuration operation code		N			AN	1>3

This segment is used to identify the line item being despatched.

Segment notes:

- Ideally, the LIN segment specifies the 'GTIN of the **trade item**' (e.g. a box, carton, pallet or any other unit which is commercially agreed to be ordered and invoiced). Furthermore, the best practice is to take over the GTIN from the ORDERS message (for direct matching).
- In case of 'goods in **consignment**' , there is no specific/additional indication. (= goods that are delivered into stock with agreement on payment when goods are sold out of this stock).

Dependency notes:

- DE 7140: The LIN segment **always** expects a GTIN (Global Trade Item Number), except in the case of deliberately delivering empty RTI. In the latter case, only LIN+<line item identifier>' is mentioned. Such a LIN segment can only be used after the CPS+1 segment and the accompanying PAC segment. For more details, see the annex 'DESADV examples'.
- DE 7143: if DE 7140 is used and thus contains a GTIN, value SRV has to be metioned. If DE 7140 isn't used, this DE 7143 isn't used either.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
32	**PIA**			**Additional product id**	10	C		**Empty RTI**		

For easier reading, the PIA segment is split up in separate pages to indicate the working method for 'empty RTI' (here).
Batch number and Ear-tag number can be found on the next page.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
	PIA		4347	Product identifier code qualifier		R	**5**	= Product identification	AN	1>3
	PIA	**C212**		**Item number identification**		R				
	PIA	C212	7140	Item identifier		R	<nGRAI>		AN	1>35
	PIA	C212	7143	Item type identification code		R	**SUE**	= GS1 Global Returnable Asset Identifier, non-serialized	AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3
	PIA	**C212**		**Item number identification**		N				
	PIA	C212	7140	Item identifier		N			AN	1>35
	PIA	C212	7143	Item type identification code		N			AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3
	PIA	**C212**		**Item number identification**		N				
	PIA	C212	7140	Item identifier		N			AN	1>35
	PIA	C212	7143	Item type identification code		N			AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3
	PIA	**C212**		**Item number identification**		N				
	PIA	C212	7140	Item identifier		N			AN	1>35
	PIA	C212	7143	Item type identification code		N			AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3

This segment is used to provide additional identification for the current line item.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
Segment notes: - This segment line (PIA+5+<nGRAI>:SUE') is used to indicate **empty RTI** (e.g. stabilization crates). - The details of this working method can be found in the annex 'DESADV examples'.										

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Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	CPS-SG11-SG17				9999					
SG17	LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20				9999					
32	PIA			Additional product id	10	C				

For easier reading, the PIA segment is split up in separate pages. This page indicates the working method for Batch number and Ear-tag number.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
	PIA		4347	Product identifier code qualifier		R	**1**	= Additional identificaton	AN	1>3
	PIA	**C212**		**Item number identification**		R				
	PIA	C212	7140	Item identifier		R	<..>		AN	1>35
	PIA	C212	7143	Item type identification code		D D O O	**NB** **X2** **SA** **BP**	= Batch number = Ear-tag number (= Sanitel number) = Supplier's article number = Buyer's part number	AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3
	PIA	C212		Item number identification		N				
	PIA	C212	7140	Item identifier		N			AN	1>35
	PIA	C212	7143	Item type identification code		N			AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3
	PIA	C212		Item number identification		N				
	PIA	C212	7140	Item identifier		N			AN	1>35
	PIA	C212	7143	Item type identification code		N			AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3
	PIA	C212		Item number identification		N				
	PIA	C212	7140	Item identifier		N			AN	1>35
	PIA	C212	7143	Item type identification code		N			AN	1>3
	PIA	C212	1131	Code list identification code		N			AN	1>17
	PIA	C212	3055	Code list responsible agency code		N			AN	1>3

This segment is used to provide additional identification for the current line item.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Dependency notes:

DE 7414: - Qualifier '**NB**': When relevant, the batch number is **required** on line level (#32 PIA+1+<Batch n°>:NB').
Generally, the batch number refers to a best before date.
- Qualifier '**X2**' is used in the context of **meat traceabilty**.
- For meat traceability, either the 'batch number' or the 'Sanitel number' is at least **required.** Their working methods can be found in the annex 'DESADV examples'.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
33	**IMD**			**Item description**	25	C				
	IMD		7077	Description format code		D D	**F** **C**	= Free-form = Code	AN	1>3
	IMD	**C272**		**Item characteristic**		D				
	IMD	C272	7081	Item characteristic code		D	**72**	= Harvest year of the grapes of wine	AN	1>3
	IMD	C272	1131	Code list identification code		N			AN	1>17
	IMD	C272	3055	Code list responsible agency code		N			AN	1>3
	IMD	**C273**		**Item description**		R				
	IMD	C273	7009	Item description code		D	<..>		AN	1>17
	IMD	C273	1131	Code list identification code		D D	**OAG** **X59**	= Organic Claim Agency = FAO fishing areas	AN	1>17
	IMD	C273	3055	Code list responsible agency code		D D	**2** **400**	= CEC, European Commission = FAO Food and Agriculture Organization	AN	1>3
	IMD	C273	7008	Item description		D	<..>		AN	1>256
	IMD	C273	7008	Item description		D	<..>		AN	1>256
	IMD	C273	3453	Language name code		D D D D	**FR** **NL** **DE** **EN**	French Dutch German English	AN	1>3
	IMD		7383	Surface or layer code		N			AN	1>3

This segment is used to describe the current line item.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length

Segment notes:
This segment must be used to mention:
- the controlling agency (with its registration number) that certified the organic product. E.g. IMD+F++:OAG:2:BE-BIO-01:CERTISYS'.
  Furthermore, It should be noted that the indication of 'the organization that handed out the bio certification label', is actually only required on the product label itself (cf. EU directive 834/2007). Nevertheless, it should be noted that both kind of information should be exchanged via GDSN rather than via EDI.
- the article description. This can be useful when the trade partner is using webEDI. E.g. IMD+F++:::ITEM DESCRIPTION::FR'
- the vintage year (millésime) of wine if the bottles get each year the same GTIN and the retailer wants to make a distinction. E.g. IMD+C+72+:::2014’
- the fish catch area. E.g. IMD+C++21:X59:400'

Dependency notes:
- DE 7077:
  * use F in case you want to mention the organic controlling agency that certified the organic product or the article description in case of webEDI
  * use C in case you want to mention the vintage year or fish catch area
- DE 7081: only use this DE with code 72 when the vintage year needs to be exchanged.
- DE 7009: only use this DE to specfiy the coded fish area. The code list can be found on http://www.fao.org/fishery/area/search/en
- DE 1131: when the IMD segment is used to exchange:
  * the organic controlling agency: mention OAG
  * the fish catch area: mention X59
- DE 3055: when the IMD segment is used to exchange:
  * the organic controlling agency: mention 2
  * the fish catch area: mention 400
- first DE 7008: when the IMD segment is used to exchange:
  * the organic controlling agency, the code of this agency should be mentioned.
    The code list can be found on http://ec.europa.eu/agriculture/ofis_public/r8/ctrl_r8.cfm?targetUrl=home&lang=en
  * article descriptions, the description should be mentioned.
  * the vintage year, that year should be mentioned.
- second DE 7008: only when the IMD-segment is used to exchange the organic controlling agency the name of this agency should be mentioned.
- DE 3453: only when the IMD-segment is used to exchange article descriptions, the language code should be mentioned.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
34	**MEA**			**Measurements**	10	C		**NET WEIGHT**		
	MEA		6311	Measurement purpose code qualifier		R	**PD**	= Physical dimensions	AN	1>3
	MEA	**C502**		**Measurement details**		R				
	MEA	C502	6313	Measured attribute code		D	**AAC**	= Total net weight (Total weight of goods excluding packaging)	AN	1>3
	MEA	C502	6321	Measurement significance code		N			AN	1>3
	MEA	C502	6155	Non-discrete measurement name code		N			AN	1>17
	MEA	C502	6154	Non-discrete measurement name		N			AN	1>70
	MEA	**C174**		**Value/range**		R				
	MEA	C174	6411	Measurement unit code		D D D	**KGM** **LTR** **MTR**	= Kilogram = Liter = Meter	AN	1>3
	MEA	C174	6314	Measurement value		R	<..>	Max 3 digits after the decimal point.	AN	1>18
	MEA	C174	6162	Range minimum value		N			N	1>18
	MEA	C174	6152	Range maximum value		N				
	MEA	C174	6432	Significant digits quantity		N				
	MEA		7383	Surface or layer code		N				

This segment is used to specify the actual physical dimensions of the line item being despatched where the product is sold in variable dimensions.

Segment notes:
This segment must be used for:
- goods with a **variable nature**: they should have their 'order unit' and 'delivery unit' expressed in 'number of crates/cases/pallets/other' (for #35 QTY), and have their 'exact weight/dimensions' specified in #34 MEA+PD+AAC+KGM:<net weight>'.
- a **delivery in bulk** ("en vrac") for which the quantity can only be expressed in kg, l or m. The DESADV should express #35 QTY+12:**1**' and have its real weight specified in #34 MEA+PD+AAC+KGM:<net weight>'.

When indication of weight is relevant, the total net weight is **required** on line level (#34 MEA+PD+AAC+KGM:<net weight>'), and optional at logistic unit level (#24 MEA).
If weight is mentioned on both levels, the net weight on line level (#34) precedes the net weight on logistic unit level (#24).

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
Dependency notes: DE 6313: code AAC should only be used if code KGM is used in DE 6411.										

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
35	**QTY**			**Quantity**	10	M				
	QTY	**C186**		**Quantity details**		R				
	QTY	C186	6063	Quantity type code qualifier		R O	**12** **59**	= Despatch quantity (incl. free goods qty) = Number of consumer units in the traded unit	AN	1>3
	QTY	C186	6060	Quantity		R	<..>		AN	1>35
	QTY	C186	6411	Measurement unit code		N			AN	1>3

This segment is used to specify the quantity of the product identified in the LIN segment (#31).

Segment notes:
- Ideally, goods with a **variable nature** should have their 'order unit' and 'delivery unit' expressed in 'number of crates/cases/pallets/other' (for #35 QTY), and have their 'exact weight/dimensions' specified in #34 MEA+PD+AAC+KGM:<net weight>'.
- If it concerns a **delivery in bulk** ("en vrac") for which the quantity can only be expressed in kg, l or m, the DESADV should express #35 QTY+12:**1**' and have its real weight specified in #34 MEA+PD+AAC+KGM:<net weight>'.

Dependency notes:
DE 6063: - Qualifier **12**: For each occuring LIN segment, the despatch quantity (QTY+12) is **required**.
- Qualifier **59**: Optionally, if the supplier wishes, he/she may mention the number of consumer units (the smallest unit) per trade unit.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
38	**DTM**			**Date/time/period**	5	C				
	DTM	**C507**		**Date/time/period**		R				
	DTM	C507	2005	Date or time or period function code qualifier		R	**361**	= Best before date	AN	1>3
						O	**94**	= Production/manufacture date		
						O	**365**	= Packaging date		
						O	**X20**	= Slaughtering date		
						O	**2BE**	= Cutting date		
						D	**91E**	= First freezing date		
	DTM	C507	2380	Date or time or period value		R	<..>		AN	1>35
	DTM	C507	2379	Date or time or period format code		R	**203**	= CCYYMMDDHHMM	AN	1>3

This segment is used to specify relevant dates (and possibly times) of the current line item;

Segment notes:
- When relevant (for instance for food or non-food with an expiration date), a best before date (361) is at least **required**.
- Generally, a best before date refers to a batch number.

Dependency notes:
- DE 2380: in case no detailed time information is available, fill in 0000 for the hour and minutes (HHMM).
- DE 2005: for frozen fish code 91E must be specified

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
39	**FTX**			**Free text**	99	C				
	FTX		4451	Text subject code qualifier		R	**ZZZ**	= Mutually defined	AN	1>3
	FTX		4453	Free text function code		N				
	FTX	**C107**		**Text reference**		N				
	FTX	C107	4441	Free text value code		N			AN	1>3
	FTX	C107	1131	Code list identification code		N			AN	1>35
	FTX	C107	3055	Code list responsible agency code		N			AN	1>3
	FTX	**C108**		**Tekst literal**		R				
	FTX	C108	4440	Free text value		R	**<…>**	Vat rate	AN	1>5
	FTX	C108	4440	Free text value		R	**<…>**	Net price	AN	1>512
	FTX	C108	4440	Free text value		O	**<…>**	Sales price	AN	1>512
	FTX	C108	4440	Free text value		R	**<…>**	Currency (ISO code)	AN	1>3
	FTX	C108	4440	Free text value		N				
	FTX		3453	Language name code		N			AN	1>3
	FTX		4447	Free text format code		N			AN	1>3

This segment is used to provide free form or coded text information.

Segment note:

- Only implement this segment for the following **specific business cases** and provided it's **bilaterally agreed beforehand:**
  * for direct deliveries of goods to franchisees of which 'the GTIN and price is not known in the headquarters', and thus needs to be communicated to the headquarters in order to valorize the despatch advice and create the proforma invoice to match it with the real invoice.
  * for ultra-fresh products that don't have fixed prices: the prices for that kind of products (e.g. fresh fish) can fluctuate on a daily basis. There is no agreed price for a determined period. The price can be different on the moment the client orders the products and then the supplier delivers them.

  The supplier hereby mentions 'for the trade unit described in the LIN segment', its VAT rate, net price, optionally sales price and currency.
  e.g. #39 FTX+ZZZ+++12.50:7.321::EUR'
- Use a dot (.) for decimals.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
SG18	**RFF**				99					
41	**RFF**			**Reference**	1	C				
	RFF	**C506**		**Reference**		R				
	RFF	C506	1153	Reference code qualifier		D D D	**AWT** **YC4** **YC5**	= Administrative Reference Code = Cutting plant approval number = Slaughterhouse approval number	AN	1>3
	RFF	C506	1154	Reference identifier		R	<..>		AN	1>70
	RFF	C506	1156	Document line identifier		N			AN	1>6
	RFF	C506	4000	Reference version identifier		N			AN	1>35
	RFF	C506	1060	Revision identifier		N			AN	1>6

This segment is used to specify any references which are for the line item only.

Depency notes:
- DE1153:
  * In case of **excise goods**, the 'Administrative Reference Code' **(AWT)** may be identified.
  * Qualifiers 'YC4 & YC5' are used in the context of meat traceabilty. Their working method can be found in the annex 'DESADV examples'.

- To exchange EUDR information below codes can be used.
Code: **DDR**
Code Name (EN): Due Diligence Reference Number
Code Description (EN): EUDR Reference Number (from Due Diligence Statement TRACES)
Definition: a unique number for each Due Diligence Statement, that is created when submitted.
Example: RFF+DDR:1234567890:1'

Code: **DDV**
Code Name (EN): Due Diligence Verification Number
Code Description (EN): EUDR Verification Number (from Due Diligence Statement TRACES)
Definition: a number that is created automatically by the system, only visible for the submitter and Customs Authority.
Example: RFF+DDV:9876543210:1'

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
SG10	**CPS-SG11-SG17**				9999					
SG17	**LIN-PIA-IMD-MEA-QTY-DTM-FTX-SG18-SG20**				9999					
SG20	**LOC**				100					
43	**LOC**			**Place/location identification**	1	C				
	LOC		3227	Location function code qualifier		D	**7**	= Place of delivery	AN	1>3
						D	**241**	= Country of birth		
						D	**242**	= Country of fattening		
						D	**246**	= Slaughterhouse		
						D	**30E**	= Cutting plant		
						D	**243**	= Country of slaughter		
						D	**244**	= Country of cutting		
						D	**306**	= Global Gap number		
	LOC	**C517**		**Location identification**		R				
	LOC	C517	3225	Location name code		D	<GLN>		AN	1>13
						D	<COMEOS CODE>	e.g. Comeos code		
						D	<ISO>	e.g. country code		
	LOC	C517	1131	Code list identification code		N			AN	1>17
	LOC	C517	3055	Code list responsible agency code		D	**5**	= ISO (e.g. country code/FAO fish area)	AN	1>3
						D	**60**	= assigned by a national trade agency (e.g. Comeos codes)		
						D	**9**	= GS1 (e.g. GLN)		
	LOC	C517	3224	Location name		N			AN	1>256
	LOC	**C519**		**Related location one identification**		N				
	LOC	C519	3223	First related location name code		N			AN	1>25
	LOC	C519	1131	Code list identification code		N			AN	1>17
	LOC	C519	3055	Code list responsible agency code		N			AN	1>3
	LOC	C519	3222	First related location name		N			AN	1>70

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
	LOC	**C553**		**Related location two identification**		N				
	LOC	C553	3233	Second related location name code		N			AN	1>25
	LOC	C553	1131	Code list identification code		N			AN	1>17
	LOC	C553	3055	Code list responsible agency code		N			AN	1>3
	LOC	C553	3232	Second related location name		N			AN	1>70
	LOC		5479	Relation code		N			AN	1>3

This segment is used to identify a location relevant to the trade item in the LIN segment.

Segment notes:
This segment should only be used in case of:
- transshipment (= 'n' ultimate destinations) to specify the store for which the goods are ultimately intended.
  (In case of cross dock however (= only '1' ultimate destination), use (#9) NAD+UC)
  ('This is not to be mistaken with (#9) NAD+DP that specifies the GLN of the delivery address, where the goods will be delivered in the first place)
- meat traceability requirements need to be met.

Dependency notes:
- DE 3227:
  * Qualifier 7 must be used in case of a transshipment.
  * Qualifiers 241, 242, 246, 30E, 243 and 244 must be used for meat traceabilty. Their working method can be found in the annex 'DESADV examples'
  * Qualifier 306 must be used in case of sustainable fruit and vegetables to mention the Global Gap Number
- DE 3225:
  * A GLN of the store should be mentioned in case of transshipment
  * In case of meat traceability a GLN or a "Comeos code" should be used when in DE 3227 a reference is made to a location (code 246 and 30E), and an ISO code when reference is made to a country (241, 242, 243 and 244).
- DE 3055:
  * When an ISO code is mentioned in DE 3225, code 5 should be used.
  * When a GLN is mentioned in DE 3225, code 9 should be used.
  * When a "Comeos code" is mentioned in DE 3225, code 60 should be used.

Segm.#	Segm.	Composite DE	DE	DE name	MaxUs	Belgilux	Value	Meaning	Type	Length
56	**CNT**			**Control total**	5	M				
	CNT	**C270**		**Control**		R				
	CNT	C270	6069	Control total type code qualifier		R	**2**	= Number of line items in message	AN	1>3
	CNT	C270	6066	Control total value		R	<..>		N	1>18
	CNT	C270	6411	Measurement unit code					AN	1>3
This segment is used to specify the number of line items in the message. *E.g.:CNT+2:9'*										
57	**UNT**			**Message trailer**	1	M				
	UNT		0074	Number of segments in the message		R	<..>		N	1>6
	UNT		0062	Message reference number		R	<..>		AN	1>14
This segment is a mandatory UN/EDIFACT segment. It must always be the last segment in the message before the interchange trailer segment UNZ.										
	UNZ			**Interchange trailer**		M				
	UNZ		0036	Interchange control count		R	**<..>**	Number of messages within the interchange	N	1>6
	UNZ		0020	Interchange control reference		R	**<..>**	Identical to DE 0020 in UNB segment	AN	1>14
This segment is to provide the trailer of an interchange (serves as envelope).										

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Harmonized Order to Cash (HO2C) V3
DESADV examples

Content

[1] 'Despatch advice' (also called 'Advanced Shipping Note' or 'ASN') is hereafter mentioned as 'DESADV', which is the GS1 EANCOM® term for 'despatch advice'.

Log of changes:

Version	Date	Change
3	1 06 2019	- Added GRAI to cross docking example - Added example fish traceability
2.0	Jan 2018	Changed url RTI-list from https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.pdf into https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.xlsx
2.0	Apr 2017	- Removed indication that GRAIs are optional - Added example of non-hierarchical DESADV - Added examples of 3 sub scenarios of home delivery - Removed "package type description codes" from PAC segments that follow immediately after CPS+1 - Updated link to manual logistic label and its annex + manual meat traceability.
1.0	Feb 2016 Aug 2015 July 2014	- Example changed to add Application Code BELU_V2 as it is a Required Value in UNB DE0026 - Refinement about consumer empties in the footnote of "2.About RTI management" and "11. About". - Refinement in 9. Cross docking & transshipment. - Making documentation available.

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1. Simple despatch advice

For a uniform and mixed pallet for DC delivery, with minimal required information and corresponding GS1 logistic label.

***Example**: Supplier delivers 2 logistic units, each identified by a SSCC.*
*One is a **uniform** pallet. The other is a **mixed** pallet containing 2 different GTINs.*

#	**UNB**+UNOC:3+5422222000005:14+5411111000002:14+120530:0812+4568++BELU_V3'	Interchange header
1 2 3 3 3 7 9 9 9	**UNH**+5174+**DESADV**:D:01B:UN:EAN007' **BGM**+351+2310+9' **DTM**+137:201305300000:203' **DTM**+2:201305300000:203' **DTM**+17:201305300000:203' **RFF**+ON:1202' **NAD**+BY+5411111000002::9' **NAD**+SU+5422222000005::9' **NAD**+DP+5411111000115::9'	Message header The DESADV number is 2310 Message date 30th of May 2013 Requested delivery date 30th of May 2013 Estimated delivery date 30th of May 2013 DESADV is related to order number 1202 Buyer identified by GLN 5411111000002 Supplier identified by GLN 5422222000005 Delivery party identified by GLN 5411111000115
22 23	**CPS**+1' **PAC**+2'	General/entire consignment There are 2 (loaded) logistic carriers
22 23 27 30 27 30 31 32 35 38	**CPS**+2+1' **PAC**+1++201' **PCI**+33E' **GIN**+BJ+054222220008613702' **PCI**+41G' **GIN**+DA+0662510000767' **LIN**+1++5422222001002:SRV' **PIA**+1+LOT545:NB' **QTY**+12:27' **DTM**+361:201309120000:203'	 The first packing is being described It concerns 1 pallet 80 x 120 cm The logistic unit is marked with SSCC 054222220008613702 The asset type is identified by nGRAI 0662510000767 (=CHEP P1208, Plastic pallet 800 x 1200) The logistic unit carries 27 units of GTIN 5422222001002, marked with batch number LOT545 and best before date 12th of September 2013.
22 23 27 30 27 30 31 32 35 38 31 32 35 38	**CPS**+3+1' **PAC**+1++201' **PCI**+33E' **GIN**+BJ+054222220008613719' **PCI**+41G' **GIN**+DA+0662510000767' **LIN**+2++5422222001001:SRV' **PIA**+1+LOT546:NB' **QTY**+12:13' **DTM**+361:201309130000:203' **LIN**+3++5422222002003:SRV' **PIA**+1+LOT547:NB' **QTY**+12:10' **DTM**+361:201309150000:203'	 The second packing is being described It concerns 1 pallet 80 x 120 cm The logistic unit is marked with SSCC 054222220008613719 The asset type is identified by nGRAI 0662510000767 (=CHEP P1208, Plastic pallet 800 x 1200) The logistic unit carries 13 units of GTIN 5422222001001, marked with batch number LOT546 and best before date 13th of September 2013. The logistic unit also carries 10 units of GTIN 5422222002003, marked with batch number LOT547 and best before date 15th of September 2013.
56 57 ..	**CNT**+2:3' **UNT**+37+5174' **UNZ**+1+4568'	In total, there are 3 line items. In total, there are 37 segment lines. Interchange trailer.

Corresponding GS1 logistic labels:

Free Information

Eg. Company Name of Sender, Address, Product Description

SSCC: 054222220008613702

Product description

CONTENT: 5422222001002

COUNT: 27

BEST BEFORE: 12/09/2012

(02) 0 5422222 00100 2 (15) 120912 (37) 27

(00) 0 5422222 000861370 2

Free Information

Eg. Company Name of Sender, Address, Product Description

SSCC: 054222220008613719

(00) 0 5422222 000861371 9

2. About RTI management (logistic carriers)

To allow the recipient to **count** *(or respectively track)* all incoming logistic carriers such as pallets and crates (generally referred to as RTI[2]), the '**asset type**' *(or respectively the '**individual asset**')* can be uniquely identified in the DESADV.

- The '**asset type**' is identified in 2 ways:
  - Generically, the class of the package type with a "package type description code".
    e.g. 202 = pallet ISO 2: Standard pallet with dimensions 100 X 120 cm.
  - Specifically, the precise brand/type of the package with a non-serialized "global returnable asset identifier" (nGRAI).
    e.g. 0662510000019 = CHEP B1210A, Block Pallet, perimetric 1200x1000

Both identifications can be found on the GS1 BeNeLux RTI list[3]:
https://www.gs1.nl/sites/default/files/so_emballagecodes_gs1beneluxrtilist.xlsx

- The '**individual asset**' is identified with a serialized GRAI (sGRAI).

Note: RTIs are not to be confused with consumer empties.[4]

How to use the 'GS1 BeNeLux RTI list'?

1. Look up the "package type description code" and the nGRAI in the list

Official owner *Party who has allocated the identification code (nGRAI) to the asset type.*	Description of 'asset type' *Relevant information on colour, material, weight, specifications D/LxWxH in mm, etc.*	Allocated nGRAI *(In the Netherlands this is known as the GTIN for 'emballage'.) This is the identification code to use in EDI messages.*	Package type description code *EANCOM codelist 7065*
CHEP	CHEP P0604A, Black or Blue Plastic Pallet, 600x400	0662510000163	203
CHEP	CHEP P1208, Plastic pallet, 1200x800	0662510000767	201
CHEP	CHEP P1210B, Plastic Pallet, 1200x1000	0662510000774	202

2. Mention that code in the EDI message
   - Package type description code in #23 PAC
   - nGRAI in #30 GIN+DA

	..	
22	**CPS**+3+1'	The second packing is being described
23	**PAC**+1++201'	It concerns 1 standard pallet dimensions 80 X 120 cm.
27	**PCI**+33E'	The logistic unit is marked with
30	**GIN**+BJ+054222220008613719'	SSCC 054222220008613719
27	**PCI**+41G'	The asset type is identified by nGRAI 0662510000767
30	**GIN**+DA+0662510000767'	(=CHEP P1208, Plastic pallet, 1200 x 800)
	…	

[2] RTI stands for 'reusable transport items', also called 'assets'. These are means to transport/move goods, e.g. a pallet, a crate, a barrel.
[3] The GS1 BeNeLux RTI list replaces the former GS1 Belgilux RTI list and GS1 Nederland Levensmiddelen Emballagelijst.
[4] Consumer empties are (B2C) objects that are acquired by consumers because it carries or contains the good(s) to be 'consumed', and are afterwards returned to the retailer in exchange for a refund. Examples of consumer empties are empty bottles and empty bottle crates. Under no circumstances is the DESADV to (explicitly/separately) specify the embedded consumer empties for a delivery of beverages.

How to interpret this DESADV in terms of RTI?
The DESADV indicates one (1) pallet (cf. #23 PAC) of type nGRAI 0662510000767 (cf. #30 GIN).

For a complete DESADV example, see p 4.

How to mention RTI belonging to an encompassed GTIN?
This is the case when RTI is a composing part of the ordered trade unit/GTIN (e.g. the pallet that is part of the trade item 'pallet of biscuits').
Each asset type needs to be explicitly mentioned, even when proper data synchronization (via GDSN) is already in order. The same accounts for the INVOIC; the RTI of an encompassed GTIN needs to be explicitly mentioned in the INVOIC, when appropriate.

3. Delivery of crates

***Example 1**: **Non-serialized crates on pallets**. The supplier delivers 4 pallets with (non-serialized) crates on.*

The first logistic unit (SSCC-1) carries
14 crates (of the same type) containing 28 units of GTIN-1.
The second logistic unit (SSCC-2) carries
14 crates (of the same type) of which 6 crate[5] contain GTIN-1
and 8 crates contain GTIN-2.
The third logistic unit (SSCC-3) carries
6 crates containing GTIN-1
and 10 crates (of another type) containing GTIN-2.
The fourth logistic unit (SSCC-4) carries
18 crates containing GTIN-2
and 2 empty (stabilization) crates (on top of the pile).

Notice how the DESADV (for reasons of RTI management) explicitly specifies 'per pallet' and 'per crate type' its content (in that top down order) via the 'CPS-PAC-PCI-GIN segment group'[6]. It allows the supplier to indicate **which** crate type he/she despatched (cf. GIN+DA) and **how many** (cf. PAC+X).

#	…	
22	**CPS**+1'	General/entire consignment
23	**PAC**+4'	There are 4 logistic carriers
22	**CPS**+2+1'	The first packing (pallet level) is being described.
23	**PAC**+1++201'	It concerns 1 pallet 80 x 120 cm
27	**PCI**+33E'	
30	**GIN**+BJ+<SSCC-1>'	The logistic unit is marked with SSCC-1
27	**PCI**+41G'	The pallet type is identified by nGRAI-1
30	**GIN**+DA+<nGRAI-1>'	
22	**CPS**+3+2'	The packing within the pallet level (crate level) is being described.
23	**PAC**+14++CR'	It concerns 14 crates of type nGRAI-2.
27	**PCI**+41G'	
30	**GIN**+DA+<nGRAI-2>'	
31	**LIN**+1++<GTIN-1>:SRV'	The 14 crates carry in total
32	**PIA**+1+LOT545:NB'	28 units of GTIN-1.
35	**QTY**+12:28'	
38	**DTM**+361:201309120000:203'	
22	**CPS**+4+1'	The next packing on pallet level is being described.
23	**PAC**+1++201'	It concerns 1 pallet 80 x 120 cm
27	**PCI**+33E'	

[5] Notice how this DESADV example does not split up the 6 and 8 crates (because they have the same crate type). Nevertheless, if relevant for one reason or another, you could easily split up the two by repeating the CPS-PAC-PCI-GIN segment group. If so, you end up with CPS+5+4 specifying the 6 crates, and CPS+6+4 specifying the 8 crates.
[6] Check the (technical) DESADV documentation (p 14 and 15) for more information about making hierarchical relationships via the CPS segment group.

30 **GIN**+BJ+<SSCC-2>' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-1>'	The logistic unit is marked with SSCC-2 The pallet type is identified by nGRAI-1
22 **CPS**+5+4' 23 **PAC**+14++CR' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-2>' 31 **LIN**+2++<GTIN-1>:SRV' 32 **PIA**+1+LOT545:NB' 35 **QTY**+12:12' 38 **DTM**+361:201309120000:203' 31 **LIN**+3++<GTIN-2>:SRV' 32 **PIA**+1+LOT546:NB' 35 **QTY**+12:24' 38 **DTM**+361:201309130000:203'	As for the crate level, there are 14 crates on SSCC-2. The crate type is identified by nGRAI-2. The 14 crates carry in total 12 units of GTIN-1 and 24 units of GTIN-2.
22 **CPS**+6+1' 23 **PAC**+1++201' 27 **PCI**+33E' 30 **GIN**+BJ+<SSCC-3>' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-1>'	The third packing on pallet level is being described. It concerns 1 pallet 80 x 120 cm Logistic unit is marked with SSCC-3 The pallet type is identified by nGRAI-1 
22 **CPS**+7+6' 23 **PAC**+6++CR' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-2>' 31 **LIN**+4++<GTIN-1>:SRV' 32 **PIA**+1+LOT545:NB' 35 **QTY**+12:12' 38 **DTM**+361:201309120000:203'	On crate level, the first crate type is being described. It concerns 6 crates of type nGRAI-2. The 6 crates carry in total 12 units of GTIN-1.
22 **CPS**+8+6' 23 **PAC**+8++CR' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-3>' 31 **LIN**+5++<GTIN-2>:SRV' 32 **PIA**+1+LOT546:NB' 35 **QTY**+12:24' 38 **DTM**+361:201309130000:203'	Still on crate level, the second crate type and its content is being described. The 8 crates carry in total 24 units of GTIN-2.
22 **CPS**+9+1' 23 **PAC**+1++201' 27 **PCI**+33E' 30 **GIN**+BJ+<SSCC-4>' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-1>'	The fourth packing on pallet level is being described. It concerns 1 pallet 80 x 120 cm Logistic unit is marked with SSCC-4 The pallet type is identified by nGRAI-1 
22 **CPS**+10+9' 23 **PAC**+18++CR' 27 **PCI**+41G' 30 **GIN**+DA+<nGRAI-3>' 31 **LIN**+6++<GTIN-2>:SRV'	As for the crate level, it concerns 18 crates of type nGRAI-3. The crates carry in total 28 units of GTIN-2.

32 35 38	**PIA**+1+LOT545:NB' **QTY**+12:28' **DTM**+361:201309120000:203'	
22 23 27 30	**CPS**+11+9' **PAC**+2++CR' **PCI**+41G' **GIN**+DA+<nGRAI-3>'	Still on crate level, 2 crates of type nGRAI-3 are mentioned separately without LIN segment underneath. These are considered as empty 'stabilization' crates.
56 57 ..	**CNT**+2:6' **UNT**+85+5174' **UNZ**+1+4568'	In total, there are 6 line items. In total, there are 85 segment lines Interchange trailer

Example 2: **How to cover empty assets that are part of a logistic unit? (E.g. stabilization crates)**
This is the case when empty crates are placed on top of 'crates containing goods'. These empty assets are distinguished from the 'assets carrying goods', by mentioning them in another CPS-PAC-PCI-GIN segment group **without** a referring LIN segment underneath. (See example above, case SSCC-4).

Example 3: **How to cover empty assets that are NOT part of the logistic unit?**
This is the case when empty assets are transported in the same truck and thus considered as part of the consignment, but packed separately from the goods.

Because this empty RTI is **NOT** part of the logistic unit, it is expected in the non-structured part of the DESADV, i.e. **between CPS+1' and CPS+2+1**' requiring a specific approach and code value (see example below). Note that this is the only business case in which the LIN segment only indicates a sequence number.

#		
22 23 31 32 35	… CPS+1' PAC+4' **LIN**+1' **PIA**+5+<nGRAI-3>:**SUE**' **QTY**+12:10'	General/entire consignment There are 4 (loaded) logistic carriers 10 empty assets of nGRAI-3 are despatched. 
22 23 27 30 31	**CPS**+2+1' **PAC**+1++201' **PCI**+41G' **GIN**+DA+<nGRAI-1>' **LIN**+2++<GTIN-1>:SRV' …	The first packing (pallet level) is being described. It concerns 1 pallet 80 x 120 cm carrying GTIN-1.

Example 4: Serialized crates on pallets
The supplier sends 2 pallets with serialized crates.
The first logistic unit (SSCC-1) carries
crate sGRAI-1 containing 2 units of GTIN-1,
crate sGRAI-2 containing 2 units of GTIN-1,
crate sGRAI-3 containing 2 units of GTIN-1,
…

Notice how the DESADV explicitly specifies 'per pallet' and 'per serialized crate' its content (in that top down order) via the 'CPS-PAC-PCI-GIN segment group'.

#	…	
22	**CPS**+1'	General/entire consignment
23	**PAC**+2'	There are 2 logistic carriers
22	**CPS**+2+1'	The first packing (pallet level) is being described.
23	**PAC**+1++201'	It concerns 1 pallet 80 x 120 cm
27	**PCI**+33E'	
30	**GIN**+BJ+<SSCC-1>'	The logistic unit is marked with SSCC-1
27	**PCI**+41G'	The pallet type is identified by nGRAI-1
30	**GIN**+DA+<nGRAI-1>'	
22	**CPS**+3+2'	The packing within the pallet level (crate level) is being described.
23	**PAC**+1++CR'	It concerns a serialized crate (cf. code DB[7]) identified by **s**GRAI-1.
27	**PCI**+41G'	
30	**GIN**+**DB**+<**s**GRAI-1>'	This crate contains 2 units of GTIN-1. 
31	**LIN**+1++<GTIN-1>:SRV'	
32	**PIA**+1+LOT545:NB'	
35	**QTY**+12:2'	
38	**DTM**+361:201309120000:203'	
22	**CPS**+4+2'	Still on crate level.
23	**PAC**+1++CR'	The second serialized crate identified by **s**GRAI-2. also contains 2 units of GTIN-1. 
27	**PCI**+41G'	
30	**GIN**+**DB**+<**s**GRAI-2>'	
31	**LIN**+2++<GTIN-1>:SRV'	
32	**PIA**+1+LOT545:NB'	
35	**QTY**+12:2'	
38	**DTM**+361:201309120000:203'	
22	**CPS**+5+2'	Still on crate level.
23	**PAC**+1++CR'	The third serialized crate identified by **s**GRAI-3 contains 2 units of GTIN-1. 
27	**PCI**+41G'	
30	**GIN**+**DB**+<**s**GRAI-3>'	
31	**LIN**+3++<GTIN-1>:SRV'	
	…	

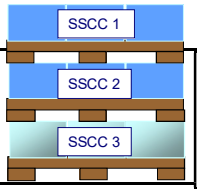
[7] It speaks for itself that the use of qualifier "DB" is not restricted to crates. It can be used for any kind of RTI that needs to be individually identified.

4. Delivery of complex pallets

Tip: Recommendations on the SSCC labeling of complex pallets can be found in the international logistic label guideline: https://www.gs1belu .org/nl/downloads/manual/gs1-logistic-label-guideline-2016

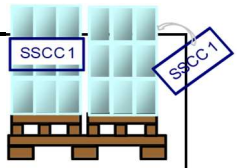
+ the Belgilux annex:
- Dutch: https://www.gs1belu.org/nl/downloads/manual/gs1-logistics-label-annex-gs1-belgium-luxembourg
- French: https://www.gs1belu.org/fr/downloads/manual/gs1-logistics-label-annexe-gs1-belgium-luxembourg

Example 1: Stacked pallets *(with or without global wrapping)*
Supplier delivers 9 logistic units stacked on top of each other.

	...	
#22	**CPS+1'**	General consignment level
#23	PAC+**9'**	The shipment contains 9 logistic carriers
#22	**CPS+2+1'**	Description of 1st packing
#23	PAC+1++201'	It concerns 1 pallet 80 x 120 cm
#24	MEA+PD+AAC+KGM:200' OPTIONAL	
#27	PCI+33E'	The logistic unit is identified by *SSCC-1*
#30	GIN+BJ+*SSCC-1*'	
#27	PCI+41G'	The pallet type is identified by nGRAI-1
#30	GIN+DA+*nGRAI-1*'	
#31	LIN+1++*GTIN-1*:SRV'	The logistic unit contains 50 units of *GTIN-1*
#34	MEA+PD+AAC+KGM:200' REQUIRED when relevant	
#35	QTY+12:*50*'	
#22	**CPS+3+1'**	Description of 2nd packing
#23	PAC+1++201'	It concerns 1 pallet 80 x 120 cm
#27	PCI+33E'	
#30	GIN+BJ+*SSCC-2*'	The logistic unit is identified by *SSCC-2*
#27	PCI+41G'	
#30	GIN+DA+*nGRAI-1*'	The pallet type is identified by nGRAI-1
#31	LIN+2++*GTIN-1*:SRV'	
#34	MEA+PD+AAC+KGM:200' REQUIRED when relevant	The logistic unit contains 50 units of *GTIN-1*
#35	QTY+12:*50*'	
#22	**CPS+4+1'**	Description of 3rd packing
#23	PAC+1++201'	It concerns 1 pallet 80 x 120 cm
#27	PCI+33E'	The logistic unit is identified by *SSCC-3*
#30	GIN+BJ+*SSCC-3*'	
#27	PCI+41G'	The pallet type is identified by nGRAI-1
#30	GIN+DA+*nGRAI-1*'	
#31	LIN+3++*GTIN-1*:SRV'	The logistic unit contains 50 units of *GTIN-1*
#34	MEA+PD+AAC+KGM:200' REQUIRED when relevant	
#35	QTY+12:*50*'	
	...	

How to cover stacked pallets that are wrapped together?
It makes no difference whether or not the logistic units are wrapped together. However, should there be an optional global label (with serial code) on top of the 3 stacked pallets, then this code is **NOT** to be mentioned in the DESADV.

Example 2: Half pallets delivered on mother pallet *(with or without wrapping)*
The supplier delivers 9 logistic units, each carrying 2 half pallets[8].

... CPS+1' PAC+9'	 General consignment level The shipment contains 9 logistic carriers (irrespective of the half pallets it's carrying)
CPS+2+1' PAC+1++201' MEA+PD+AAC+KGM:150'OPTIONAL PCI+33E' GIN+BJ+*SSCC-1*' *PCI+41G*' GIN+DA+*nGRAI-1*'	Description of the 1st packing (mother pallet) It concerns 1 pallet 80 x 120 cm The logistic unit is identified by SSCC-1 The asset type (mother pallet) is identified by nGRAI-1
CPS+3+2' PAC+1++200' PCI+41G' GIN+DA+*nGRAI-2*' LIN+1++*GTIN-1*:SRV' PIA+1+LOT656:NB' MEA+PD+AAC+KGM:75' REQUIRED when relevant QTY+12:*40*' DTM+361:201310100000:203'	Description of the packing (on half pallet level) It concerns 1 half pallet 80 x 60 cm The asset type is identified by nGRAI-2. The half pallet is carrying 40 units of GTIN-1, with best before date 10th of Oct 2013 and lot number LOT656.
CPS+4+2' PAC+1++200' PCI+41G' GIN+DA+*nGRAI-2*' LIN+2++*GTIN-1*:SRV' PIA+1+LOT650:NB' MEA+PD+AAC+KGM:75' REQUIRED when relevant QTY+12:*40*' DTM+361:201308100000:203'	Still on half pallet level It concerns another half pallet 80 x 60 cm The asset type is identified by nGRAI-2. The half pallet is carrying 40 units of GTIN-1, with best before date 10th of Aug 2013 and lot number LOT650.
CPS+5+1' ...	Description of the second (mother) pallet.

Note: Although the content is described on 'half pallet level', the SSCC is only indicated on the (above mentioned) mother pallet level.
The hierarchical composition (with CPS+**2**+1 indicating the SSCC and CPS+3+**2**; CPS+4+**2** describing the content) allows to link the SSCC to the content of the half pallets.

[8] Note that the whole (i.e. the mother pallet together with the half pallets) is to be regarded as 1 logistic unit. This composition is thus identified by 1 SSCC (instead of 1 SSCC per half pallet).

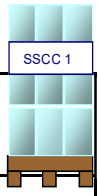
Example 3: Half pallets without mother pallet, but wrapped together
The supplier delivers 4 logistic units, consisting of 8 half pallets.[9]

... CPS+1' PAC+8'	General consignment level The shipment contains 8 logistic car 
CPS+2+1' PAC+**2**++200' MEA+PD+AAC+KGM:150'OPTIONAL *PCI+33E'* *GIN+BJ+SSCC-1'* *PCI+41G'* *GIN+DA+nGRAI-2'* LIN+1++*GTIN-1*:SRV' **MEA**+PD+AAC+KGM:130' REQUIRED when relevant PIA+1+LOT656:NB' QTY+12:*40*' DTM+361:201310100000:203' LIN+2++*GTIN-2*:SRV' **MEA**+PD+AAC+KGM:20' REQUIRED when relevant PIA+1+LOT670:NB' QTY+12:*60*' DTM+361:201310200000:203'	Description of the 1st packing The packing consists of 2 half pallets 80 x 60 cm The logistic unit is identified by SSCC-1. The asset types are identified by nGRAI-2. The logistic unit carries 40 units of GTIN-1, with best before date 10th of Oct 2013 and lot number LOT656. The logistic unit also carries 60 units of GTIN-2, with best before date 20th of Oct 2013 and lot number LOT670.
CPS+3+1' PAC+**2**++200' *PCI+33E'* *GIN+BJ+SSCC-2'* *PCI+41G'* *GIN+DA+nGRAI-2'* LIN+3++*GTIN-1*:SRV' ...	Description of the next packing. The packing consists of 2 half pallets 80 x 60 cm The logistic unit is identified by SSCC-2. The asset types are identified by nGRAI-2.

[9] Note that the "2 half pallets wrapped together" are to be regarded as the logistic unit, and are thus identified by 1 SSCC only (instead of each half pallet separately).

Example 4: Single half pallet

The supplier delivers 3 (single) half pallets, each identified by SSCC.



... CPS+1' PAC+3'	General consignment level The shipment contains 3 logistic carriers
CPS+2+1' PAC+**1**++200' MEA+PD+AAC+KGM:150'OPTIONAL *PCI+33E'* *GIN+BJ+SSCC-1'* *PCI+41G'* *GIN+DA+nGRAI-2'* LIN+1++*GTIN-1*:SRV' PIA+1+LOT656:NB' MEA+PD+AAC+KGM:150' REQUIRED when relevant QTY+12:*40'* DTM+361:201310100000:203'	Description of the 1st packing The packing consists of a half pallet 80 x 60 cm The logistic unit is identified by SSCC-1. The asset type is identified by nGRAI-2. The logistic unit is carrying 40 units of GTIN-1, with best before date 10th of Oct 2013 and lot number LOT656.
CPS+3+1' PAC+**1**++200' MEA+PD+AAC+KGM:150' *PCI+33E'* *GIN+BJ+SSCC-2'* *PCI+41G'* *GIN+DA+nGRAI-2'* LIN+2++*GTIN-2*:SRV' PIA+1+LOT730:NB' MEA+PD+AAC+KGM:150' REQUIRED when relevant QTY+12:*60'* DTM+361:201310200000:203' ...	Description of the next packing. The packing consists of a half pallet 80 x 60 cm The logistic unit is identified by SSCC-2. The asset type is identified by nGRAI-2. The logistic unit is carrying 60 units of GTIN-2, with best before date 20th of Oct 2013 and lot number LOT730.

5. Delivery of self-assembled trolleys (variable number of shelves)

Whenever possible a trolley should be identified with only 1 (nGRAI) code. In some cases however, the supplier 'assembles' the trolley and shelves himself. If these self-assembled trolleys can only be identified by (the nGRAI of) its composing parts (e.g. wheels, shelves) then this is done as follows:

Example 1: Self-assembled uniform trolley. The supplier delivers a uniform trolley (carrying 50 units of GTIN-1). Note how the supplier specifies the number of shelves (5) in an additional CPS-PAC segment group.

…	
#22 **CPS+2+1'**	It concerns 1 trolley.
#23 PAC+1++TRE'	
#27 PCI+33E'	The logistic unit is marked with SSCC.
#30 GIN+BJ+*SSCC-1*'	The asset type is identified by nGRAIs
#27 PCI+41G'	(it concerns the trolley post
#30 GIN+DA+8716532001140'	and the wheels)
#30 GIN+DA+8716532001119'	
#22 **CPS+3+2'**	The second packing is being described
#23 PAC+**5**++PU'	(i.e. the 5 shelves on the trolley).
#27 PCI+41G'	
#30 GIN+DA+8716532001157'	The asset type is identified by nGRAI (shelf)
#31 LIN+1++<*GTIN-1*>:SRV'	The 5 shelves carry 50 units of GTIN-1.
#35 QTY+12:50'	
…	

Example 2: Self-assembled mixed trolley. The supplier delivers a mixed trolley (carrying different GTINs). In this case it is recommended (by the EDI Committee) to specify the content per shelf (as such):

…	
#22 **CPS+2+1'**	It concerns 1 trolley.
#23 PAC+1++TRE'	
#27 PCI+33E'	The logistic unit is marked with SSCC.
#30 GIN+BJ+*SSCC-1*'	The asset type is identified by nGRAIs
#27 PCI+41G'	(it concerns the trolley post
#30 GIN+DA+8716532001140'	and the wheels)
#30 GIN+DA+8716532001119'	
#22 **CPS+3+2'**	The second packing is being described
#23 PAC+**1**++PU'	(i.e. the first shelf on the trolley).
#27 PCI+41G'	
#30 GIN+DA+8716532001157'	The asset type is identified by nGRAI (shelf)
#31 LIN+1++<*GTIN-1*>:SRV'	The shelf carries 10 units of GTIN-1.
#35 QTY+12:10'	
…	
#22 **CPS+4+2'**	The next shelf is being described.
#23 PAC+**1**++PU'	
#27 PCI+41G'	
#30 GIN+DA+8716532001157'	
#31 LIN+1++<*GTIN-2*>:SRV'	The shelf carries 15 units of GTIN-2.
#35 QTY+12:15'	
…	

Goods with a variable weight

***Example**: The supplier delivers 16 trays of apples (= 16 x GTIN-1), representing 201.365 kg in total.*

	...	
#22	**CPS+2+1'**	
#23	PAC+1++201'	Description of 1st packing The packing consists of a pallet 80 x 120 cm
#24	MEA+PD+AAC+KGM:201.365'	
	OPTIONAL	
#27	PCI+33E'	
#30	GIN+BJ+*SSCC-1*'	The logistic unit is identified by *SSCC-1* The pallet type is identified by nGRAI-1
#27	PCI+41G'	
#30	GIN+DA+*nGRAI-1*'	
#31	LIN+1++<*GTIN-1*>:SRV'	The logistic unit carries 16 units of GTIN-1 (=16 trays), representing 201.365 kg
#32	PIA+1+LOT730:NB'	
#34	MEA+PD+AAC+KGM:201.365'	
	REQUIRED	
#35	QTY+12:***16***'	
#38	DTM+361:201312310000:203'	
	…	

Corresponding GS1 logistic label:

Note: Whenever possible, the 'order unit' and 'delivery unit' should be expressed in 'number of crates/cases/pallets/other' (GTIN) together with their 'exact weight/dimensions'.

Note: If it concerns a **delivery in bulk** for which the quantity can only be expressed in kg, l or m, the DESADV should express #35 QTY+12:**1**' and have its exact weight specified in #34 MEA+PD+AAC+KGM:<net weight>'.

6. Goods subject to traceability requirements

Example 1: Traceability of meat[10]
The supplier delivers 20 crates on a pallet, of which each crate contains 12 trays of minced meat. The net weight and traceability data is mentioned on line level.

Note: The example below shows (in red) the minimally required elements for meat (i.e. the 'batch or Sanitel number' for traceability purposes, and the 'best before date' for food safety). On top of that, the example shows (in blue) optional elements that can be mentioned for meat traceability (when relevant).

	…	
22	**CPS**+3+2'	The packing is being described
23	**PAC**+1++CR'	It concerns 1 crate
27	**PCI**+41G'	
30	**GIN**+DA+*nGRAI-1*'	
31	**LIN**+1++<GTIN-1>:SRV'	
32	**PIA**+1+LOT545:NB' REQUIRED	Batch number
34	**MEA**+PD+AAC+KGM:5.365' REQUIRED	Exact net weight of GTIN-1 in that crate
35	**QTY**+12:12'	12 units (e.g. 12 trays of minced meat)
38	**DTM**+361:201309120000:203' REQUIRED	Best before date
38	DTM+X20:201309080000:203'	Slaughter date
38	DTM+2BE:201309080000:203'	Cutting date
38	DTM+365:201309080000:203'	Packing date
41	**RFF**+YC5:EEG93'	Veterinary approval n° slaughterhouse
41	**RFF**+YC4:EEG93'	Veterinary approval n° cutting plant
43	LOC+241+BE::5'	Country of birth
43	LOC+242+BE::5'	Country of fattening
43	LOC+243+BE::5'	Country of slaughter
43	LOC+244+BE::5'	Country of cutting
43	LOC+246+<GLN slaughterhouse>::9' LOC+246+014::60'	Slaughterhouse identification (either by GLN or COMEOS code)
43	LOC+30E+<GLN cutting plant>::9' LOC+30E+014::60'	Cutting plant identification (either by GLN or COMEOS code)
	…	

[10] Note that the manual for 'identification and traceability of meat' can be found on
- Dutch: https://www.gs1belu.org/nl/downloads/manual/gs1-belgilux-handleiding-vleestraceerbaarheid
- French: https://www.gs1belu.org/fr/downloads/manual/gs1-belgilux-manuel-tra%C3%A7abilit%C3%A9-viande

Example 2: Traceability of 'bulk meat that has to stay together'

*The meat supplier delivers 32 crates on a pallet, of which the first 4 crates need to stay together (when delivered to the stores). The serialized crates are connected 'to one another' via additional identification (PCI+16+**1**A; PCI+16+**1**B; up to **1**D). The next 4 crates (containing pieces of bulk meat with the same GTIN and Sanitel n°) also need to stay together. These are assigned numbers **2**A, **2**B, **2**C and **2**D.*

Note: This concerns a specific business case. It is only to be implemented if bilaterally agreed beforehand with the retailer. It is the case of bulk meat that doesn't *fit in/on* 1 logistic carrier (RTI/asset) but that has to stay together (when delivered to the stores). E.g. pieces of beef/pork/other type that are put in more than 1 crate but that need to stay together when delivered to the stores. It requires the use of **#27 PCI+16** which allows to connect *serialized* logistic carriers to one another.

#		
…		
22	**CPS**+1'	General/entire consignment
23	**PAC**+1'	There is 1 logistic carrier
22	**CPS**+2+1'	The first packing (pallet level) is being described.
23	**PAC**+1++201'	It concerns 1 pallet 80 x 120 cm
24	**MEA**+PD+AAC+KGM:580.100' OPTIONAL	
24	**MEA**+PD+T+KGM:3.200' DEPENDENT	Tare weight (Only required in case of a 'wooden pallet carrying variable weight products' and provided it's bilaterally agreed beforehand).
27	**PCI**+33E'	
30	**GIN**+BJ+<SSCC-1>'	The logistic unit is marked with SSCC-1.
27	**PCI**+41G'	
30	**GIN**+DA+<nGRAI-1>'	The pallet type is identified by nGRAI-1.
22	**CPS**+3+2'	The packing within the pallet level (crate level) is being described. 
23	**PAC**+1++CR'	
24	**MEA**+PD+AAC+KGM:19.960' OPTIONAL	It concerns a serialized crate identified by sGRAI-1.
27	**PCI**+41G'	
30	**GIN**+DB+<**s**GRAI-1>'	This crate (assigned number '1A') should stay together with crates 1B, 1C & 1D.
27	**PCI**+16+1A'	
23	**PAC**+1++CR'	The second serialized crate identified by sGRAI-2, 
24	**MEA**+PD+AAC+KGM:19.530' OPTIONAL	and assigned number '1B'
27	**PCI**+41G'	should stay together with crates 1A,
30	**GIN**+DB+<**s**GRAI-2>'	1C & 1D.
27	**PCI**+16+1B'	
23	**PAC**+1++CR'	The third serialized crate identified by sGRAI-3, 
24	**MEA**+PD+AAC+KGM:15.720' OPTIONAL	and assigned number '1C'
27	**PCI**+41G'	should stay together with crates 1A,
30	**GIN**+DB+<**s**GRAI-3>'	1B & 1D.
27	**PCI**+16+1C'	
23	**PAC**+1++CR'	The fourth serialized crate identified by sGRAI-4, 
24	**MEA**+PD+AAC+KGM:27.050' OPTIONAL	and assigned number '1D'
27	**PCI**+41G'	should stay together with crates 1A,
30	**GIN**+DB+<**s**GRAI-4>'	1B & 1C.
27	**PCI**+16+1D'	
31	**LIN**+1++<GTIN-1>:SRV'	These 4 crates contain pieces of bulk meat (GTIN-1).
32	**PIA**+1+<SANITEL N-1>:X2' REQUIRED	
34	**MEA**+PD+AAC+KGM:82.260' REQUIRED	
35		

38	**QTY**+12:**1**' **DTM**+361:201309120000:203' REQUIRED	For traceability purposes and food safety, both Sanitel n° (or batch n°) and best before date are specified. Other information elements are optional.
22 23 24 27 30 27	**CPS**+4+2' **PAC**+1++CR' **MEA**+PD+AAC+KGM:19.160' OPTIONAL **PCI**+41G' **GIN**+DB+<**s**GRAI-5>' **PCI**+16+2A'	Still on crate level. The fifth serialized crate identified by sGRAI-5, and assigned number '2A', should stay together with crates 2B, 2C & 2D. 
23 24 27 30 27	**PAC**+1++CR' **MEA**+PD+AAC+KGM:18.610' OPTIONAL **PCI**+41G' **GIN**+DB+<**s**GRAI-6>' **PCI**+16+2B' …	The sixth serialized crate identified by sGRAI-6, and assigned number '2B', should stay together with crates 2A, 2C & 2D. 

Example 3: Traceability of fish

Note: Following data must be available to guarantee fish traceability.

- exchanged as transactional data (EDI) in the DESADV:
  - batch
  - quantity & net weight
  - best before data
  - initial freezing data (if frozen fish)
  - catch area
- exchanged as master data using for example GDSN and hence not mentioned in the DESADV:
  - fish specy
  - catch method

	…	
22	**CPS**+3+2'	The packing is being described
23	**PAC**+1++CR'	It concerns 1 crate
27	**PCI**+41G'	
30	**GIN**+DA+*nGRAI-1*'	
31	**LIN**+1++<GTIN-1>:SRV'	
32	**PIA**+1+LOT545:NB'	Batch number
33	**IMD**+C++21:X59:400'	Fish catch is area 21 (=Northwest Atlantic) see http://www.fao.org/fishery/area/search/en
34	**MEA**+PD+AAC+KGM:16.765'	Total net weight of 50 fishes in the crate
35	**QTY**+12:50'	Number of fishes in the crate
38	**DTM**+361:201912310000:203'	Best before date
	…	

7. Direct delivery to a store

Note: For **direct store deliveries**, it suffices to indicate the store's GLN in #9 NAD+DP, which is by the way in line with the recommendations of GS1 NL and GS1 FR.

8. Cross docking & transshipment (synonym 'flux alloti')

Cross docking implies that only 1 ultimate destination was specified in the order, whereas transshipment implies that the goods are intended for 'n' ultimate destinations.

Note: For **cross docking** or **transshipment**, use indication #2 BGM+**YA6** (instead of BGM+351). As for the ultimate destination(s), use
- (#9) NAD+UC in case of cross docking (for '1' ultimate destination).
- (#43) LIN.LOC+7' in case of transshipment. Specify on line level for which store the logistic unit (SSCC) is ultimately intended.

Notice that #9 NAD+DP specifies the GLN of the delivery address (where the goods will be delivered in the first place).

The SSCC may contain goods for only 1 store.

	…	
1	**UNH**+5174+**DESADV**:D:01B:UN:EAN007'	Message header
2	**BGM**+**YA6**+2820+9'	The cross docking/transshipment DESADV number
3	**DTM**+137:201305300000:203'	Message date 30th of May 2013
3	**DTM**+2:201305300000:203'	Requested delivery date 30th of May 2013
3	**DTM**+17:201305300000:203'	Estimated delivery date 30th of May 2013
7	**RFF**+ON:1202'	DESADV is related to order number 1202
9	**NAD**+BY+5411111000002::9'	Buyer identified by GLN 5411111000002
9	**NAD**+SU+5422222000005::9'	Supplier identified by GLN 5422222000005
9	**NAD**+DP+5411111000115::9'	Delivery party identified by GLN 5411111000115
22	**CPS**+1'	General/entire consignment
23	**PAC**+2'	There are 2 (loaded) logistic carriers
22	**CPS**+2+1'	The first packing is being described
23	**PAC**+1++201'	It concerns 1 pallet 80 x 120 cm
27	**PCI**+33E'	Logistic Unit is marked with SSCC-1
30	**GIN**+BJ+<SSCC-1>'	
27	PCI+41G'	The pallet type is identified by nGRAI-1
30	GIN+DA+nGRAI-1'	
31	**LIN**+1++<GTIN-1>:SRV'	
32	**PIA**+1+LOT545:NB'	
35	**QTY**+12:27'	
38	**DTM**+361:201309120000:203'	
43	**LOC**+7+<GLN store>::9'	The articles on this SSCC are intended for store X.

As for the **GS1 logistic label**, for some retailers it is desirable to have the 'GLN of the ultimate recipient' together with its name in the free text part on the label. Optionally this could also be encoded. (barcodes@gs1belu.org).

9. Backhauling

Note: For **backhauling** (meaning 'the buyer picks up the goods'), the GLN of the 'pickup address' is to be specified (via #9 NAD+SF).

Optionally, the supplier may add the explicit mention that 'the buyer picks up the goods' (via #14 TOD+4, collected by customer) and 'the date on which the goods are expected to be shipped' (via #3 DTM+11, despatch date).

Note that a collection date should be arranged beforehand. Under no circumstance should the DESADV be used as a way to agree a pickup date.

	…	
1	**UNH**+5174+**DESADV**:D:01B:UN:EAN007'	
2	**BGM**+351+2310+9'	
3	**DTM**+137:201305300000:203'	
3	**DTM**+2:201306100000:203'	
3	DTM+11:201306100000:203'OPTIONAL	
7	**RFF**+ON:1202'	
9	**NAD**+BY+5411111000002::9'	The place of delivery (irrespective of the buyer taking care of transport) is still the buyer's DC/store. The GLN of the NAD+SF is to be considered as the pickup address. 'Collected by customer'
9	**NAD**+SU+5422222000005::9'	
9	**NAD**+DP+5411111000115::9'	
9	**NAD**+**SF**+5422222000005::9'	
14	TOD+4' OPTIONAL	
22	**CPS**+1'	General/entire consignment There are 2 logistic carriers
23	**PAC**+2'	
22	**CPS**+2+1'	The first packing is being described It concerns 1 pallet 80 x 120 cm Pallet is marked with SSCC-1
23	**PAC**+1++201'	
27	**PCI**+33E'	
30	**GIN**+BJ+<SSCC-1>'	
31	**LIN**+1++<GTIN-1>:SRV'	
32	**PIA**+1+LOT545:NB'	
35	**QTY**+12:27'	
38	**DTM**+361:201309120000:203'	
	…	

10. Home delivery

In case of home delivery an end consumer orders goods on the website of the retailer and indicates that the goods:

- have to be delivered at home (delivery address = invoice address)
- have to be delivered at an alternative address like the house of a relative or at work (delivery address ≠invoice address)
- will be picked up in one of the stores of the retailer

The retailer sends the order to the supplier who needs to deliver the goods on the indicated location.

Example 1: delivery at home

	…	
1	**UNH**+4102+DESADV:D:01B:UN:EAN007'	
2	**BGM**+351+2304+9'	
3	**DTM**+137:201405300000:203'	
3	**DTM**+2:201405300000:203' *OR OPTIONAL*	Requested delivery date and time OR Requested delivery date and part of the day (when end consumer can choose a time slot) Estimated delivery date and time OR Estimated delivery date and part of the day (relevant when there is no "track & trace" solution)
	***DTM**+2:201405301200201405301800:719'*	
3	**DTM**+17:201405300000:203'*OR OPTIONAL*	
	***DTM**+17:201405301200201405301800:719'*	
7	**RFF**+ON:1202'	
9	**NAD**+BY+5411111000004::9'	(2) DP: dummy GLN with no extra attributes => delivery address end consumer = invoice address end consumer (1) UC: dummy GLN => home delivery order. Name and address of the end consumer.
9	**NAD**+SU+5422222000005::9'	
9	**NAD**+DP+0000000000000::9'	
9	**NAD**+UC+0000000000000::9++ NAME END CONSUMER+ STREET AND NR+CITY++POSTAL CODE+COUNTRY CODE'	
22	**CPS**+1'	
23	**PAC**+1'	
22	**CPS**+2+1'	
23	**PAC**+1++CT'	
27	**PCI**+33E'	
30	**GIN**+BJ+154222220008613709'	
31	**LIN**+1++5422222001002:SRV'	
35	**QTY**+12:40'	
31	**LIN**+2++5422222002009:SRV'	
35	**QTY**+12:10'	
	…	

Example 2: delivery at an alternative address

#	…	
1	**UNH**+4102+DESADV:D:01B:UN:EAN007’	
2	**BGM**+351+2304+9’	
3	**DTM**+137:201405300000:203’	
3	**DTM**+2:201405300000:203’ *OR OPTIONAL* *DTM+2:20140530120020140530180 0:719’*	Requested delivery date and time OR Requested delivery date and part of the day (when end consumer can choose a time slot)
3	**DTM**+17:201405300000:203’ *OR OPTIONAL* *DTM+17:20140530120020140530180 0:719’*	Estimated delivery date and time OR Estimated delivery date and part of the day (relevant when there is no "track & trace" solution)
7	**RFF**+ON:1202’	
9	**NAD**+BY+5411111000004::9’	
9	**NAD**+SU+5422222000005::9’	
9	**NAD**+DP+0000000000000::9++ NAME RELATIVE OR COMPANY EMPLOYER END CONUMER + STREET AND NR+CITY++POSTAL CODE+COUNTRY CODE’	(2) DP: dummy GLN with extra attributes => delivery address end consumer ≠ invoice address end consumer This is the address of a relative or the address of the company the end consumer works.
9	**NAD**+UC+0000000000000::9++ NAME END CONSUMER+ STREET AND NR END CONSUMER+CITY++ POSTAL CODE+COUNTRY CODE’	(1) UC: dummy GLN => home delivery order. Name and address of the end consumer
	…	

Example 3: pick up in the shop

	…	
1	**UNH**+4102+DESADV:D:01B:UN:EAN007’	
2	**BGM**+351+2304+9’	
3	**DTM**+137:201405300000:203’	
3	**DTM**+2:201405300000:203’ *OR OPTIONAL* *DTM+2:20140530120020140530180 0:719’*	Requested delivery date and time OR Requested delivery date and part of the day
3	**DTM**+17:201405300000:203’ *OR OPTIONAL* *DTM+17:20140530120020140530180 0:719’*	Estimated delivery date and time OR Estimated delivery date and part of the day (relevant when there is no "track & trace" solution)
7	**RFF**+ON:1202’	
9	**NAD**+BY+5411111000004::9’	
9	**NAD**+SU+5422222000005::9’	
9	**NAD**+DP+5411111000559::9’	(2) DP: real GLN => delivery address end consumer ≠ invoice address end consumer The alternative delivery address is a shop.
9	**NAD**+UC+0000000000000::9’	(1) UC: dummy GLN => home delivery order.
	…	

Non-hierarchical DESADV

Normally a DESADV should describe the consignment in a hierarchical way. This means it describes logistic units which are combinations of trade items and logistic carriers.

When there is a lack of functionality in the ERP system to make a link between trade items and logistic carriers during the picking process, it can be impossible to describe those logistic units.
In that case the non-hierarchical description of a consignment can be used as a temporary solution if the supplier gets the specific permission of the retailer.

CPS+1++4' means that only the number of logistic carriers and trade items in the consignment are described without indication which trade item is located on which logistic carrier. On other words: there are no logistic units being described.

	… 1 UNH+5174+DESADV:D:01B:UN:EAN007' 2 BGM+351+2310+9' 3 DTM+137:201305300000:203' 3 DTM+2:201305300000:203' 3 DTM+17:201305300000:203' 7 RFF+ON:1202' 9 NAD+BY+5411111000002::9' 9 NAD+SU+5422222000005::9' 9 NAD+DP+5411111000115::9'	
22 23	CPS+1++4' PAC+2'	No packaging hierarchy The consignment consists out of 2 logistic carriers.
31 35 31 35 31 35	LIN+1++5422222001001:SRV' QTY+12:27' LIN+2++5422222001001:SRV' QTY+12:13' LIN+3++5422222002003:SRV' QTY+12:10' …	

11.About

How to cover *different* best before dates and/or batch numbers within one GTIN?
In the DESADV: Specify for each different best before date and/or batch number, the GTIN and its corresponding quantity. How? By repeating the LIN segment group with the GTIN and specifying its quantity, best before date and batch number.

On the 'GS1 logistic label for a uniform pallet': in the case of different 'best before dates', either mention the 'most critical date' or 'no date at all'. In the case of different batch numbers, don't mention any batch number.

What if more or less goods are despatched in regards to what was *ordered?*
Only mention the quantity that is really despatched. The EDI Committee decided to remove the QVR segment (allowing to indicate discrepancies) from the DESADV documentation. (Cf. 25/10/2013)

Note: Trading partners should bilaterally agree beforehand whether or not 'excess or missing quantity' is acceptable, and in the latter case, if backorders are used (and how they should be dealt with).

What if the delivery contains *free goods*?
Only mention the total despatched quantity (QTY+12). There is no distinction for free goods. The EDI Committee decided to remove code value 192 from the QTY segment. This is to avoid unnecessary complexity (e.g. when the supplier delivers less goods than ordered, which might affect the commercially agreed number of free goods). (Cf. 14/02/2014)

What if the supplier delivers *promotional* articles (having the *same* GTIN as the regular article)?
There is no specific indication for these promotional articles. The EDI Committee decided to remove the indication for 'promotional variant number' from the DESADV. (Cf. 25/10/2013)

What if goods are delivered '*in consignment*'?
For goods delivered in consignment, there is no specific indication in the DESADV.

How to cover '*consumer empties*'?
There is no specific indication for consumer empties. The EDI Committee decided that consumer empties should not be made explicit in the DESADV. (Cf. 25/10/2013 & 05/05/2015)

What if the logistics service provider (LSP) did not load all prepared pallets (but the DESADV is already sent)?
The supplier is to contact the customer to inform him/her.

Whose GLN to mention if the logistics service provider (LSP) of the supplier prepared the logistic units and sent the DESADV?
Optionally specify the GLN of the LSP by using NAD+DEQ (shipper). Possibly useful for the Receiving advice in case goods got damaged during transport.