

LEONI

Guideline DESADV

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History:

Date	Chapter	Name	Changes/enhancements	Agreed with
14.05.2013		Fußeder	First draft	
16.05.2013	3	Fußeder	Examples for packaging structure	
22.05.2013		Fußeder	Review	Feigl
29.05.2013	3.4.2	Fußeder	Change PAC Segment	
04.06.2013		Fußeder	Small error corrections in examples	
12.06.2013		Fußeder	Removal of partner UD in Dispatch advice	Feigl
06.11.2013	2.3.17	Fußeder	Adjustment RFF segment	Feigl
22.01.2014	overall	Mihaescu	Adjustments Non JIT	
23.01.2014	3.9.3	Mihaescu	Varian 3: Mixed Pallet structure Non JIT	Dotzler
06.02.2014	2.3.3, 2.3.19	Mihaescu	Adjustment BGM and LIN Segment	Fußeder
06.02.2014	2.3.1	Dotzler	Adjustment UNB Segment	Mihaescu
21.02.2014	2.3.20	Mihaescu	Insert PIA Segment	Dotzler
13.08.2014	2.3.7.	Mihaescu	Insert NAD+UD and NAD+CZ. Change description of NAD Segment	Dotzler
20.01.2016	2.3.18	Mihaescu	GIR Segment changes Qualifier AP added (7405) Status description code (4405)	Dotzler
26.04.2016	2.3.18	Mihaescu	GIR Segment changes Qualifier CS added (7405)	Dotzler
08.02.2017	2.1, 2.3.18	Schau	GIR Segment changes MaxRep increased	Dotzler

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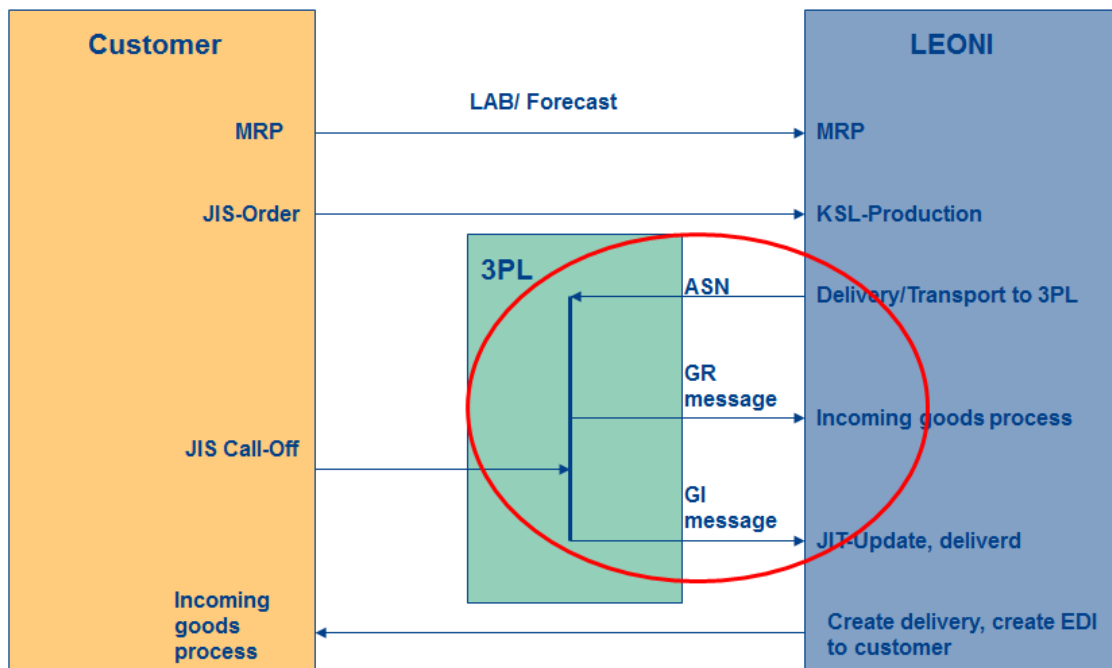
1 Overview

The purpose of this document is to describe the messages and necessary data content for the process between LEONI and the service provider.

1.1 Message overview

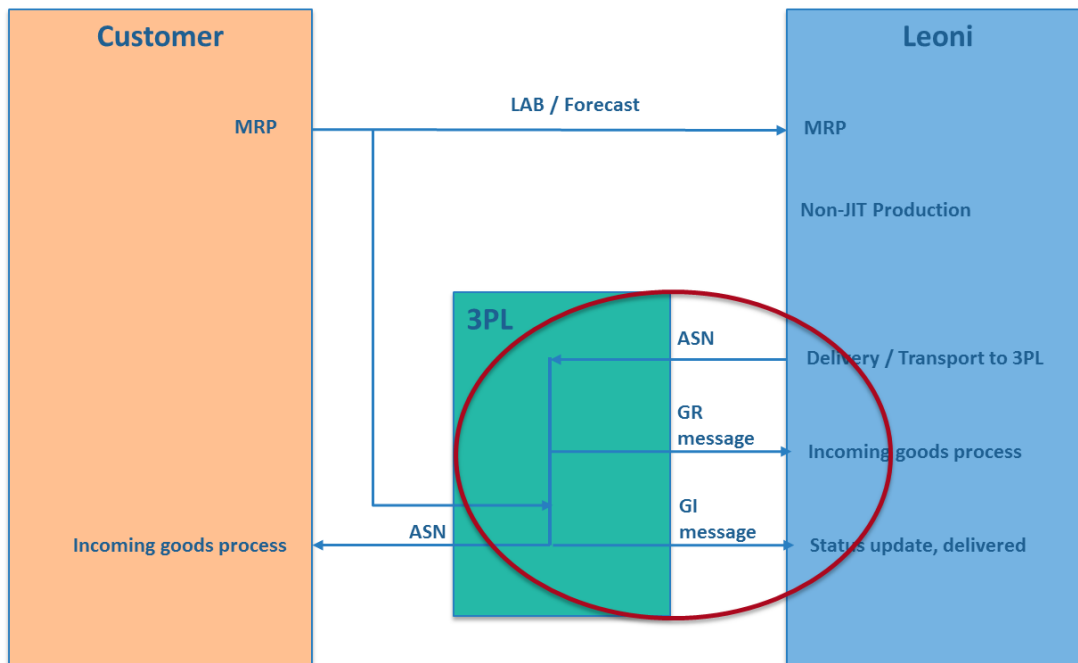
JIT Process

Dataflow process Customer-Service provider-LEONI **LEONI**



Non JIT Process

Dataflow process Customer-Service provider-LEONI



1.2 Description

The process overview shows all EDI messages which are transmitted between the customer, the service provider and LEONI. The focus in this document is to describe the message structure of the information between service provider and LEONI.

The following messages will be exchanged between the two parties:

1. Outbound (from LEONI to service provider)
 - a. ASN (advanced shipping notice)
2. Inbound (from service provider to LEONI)
 - a. GR message (confirmation of the physical goods receipt)
 - b. GI message (confirmation of the physical goods issue to the customer)

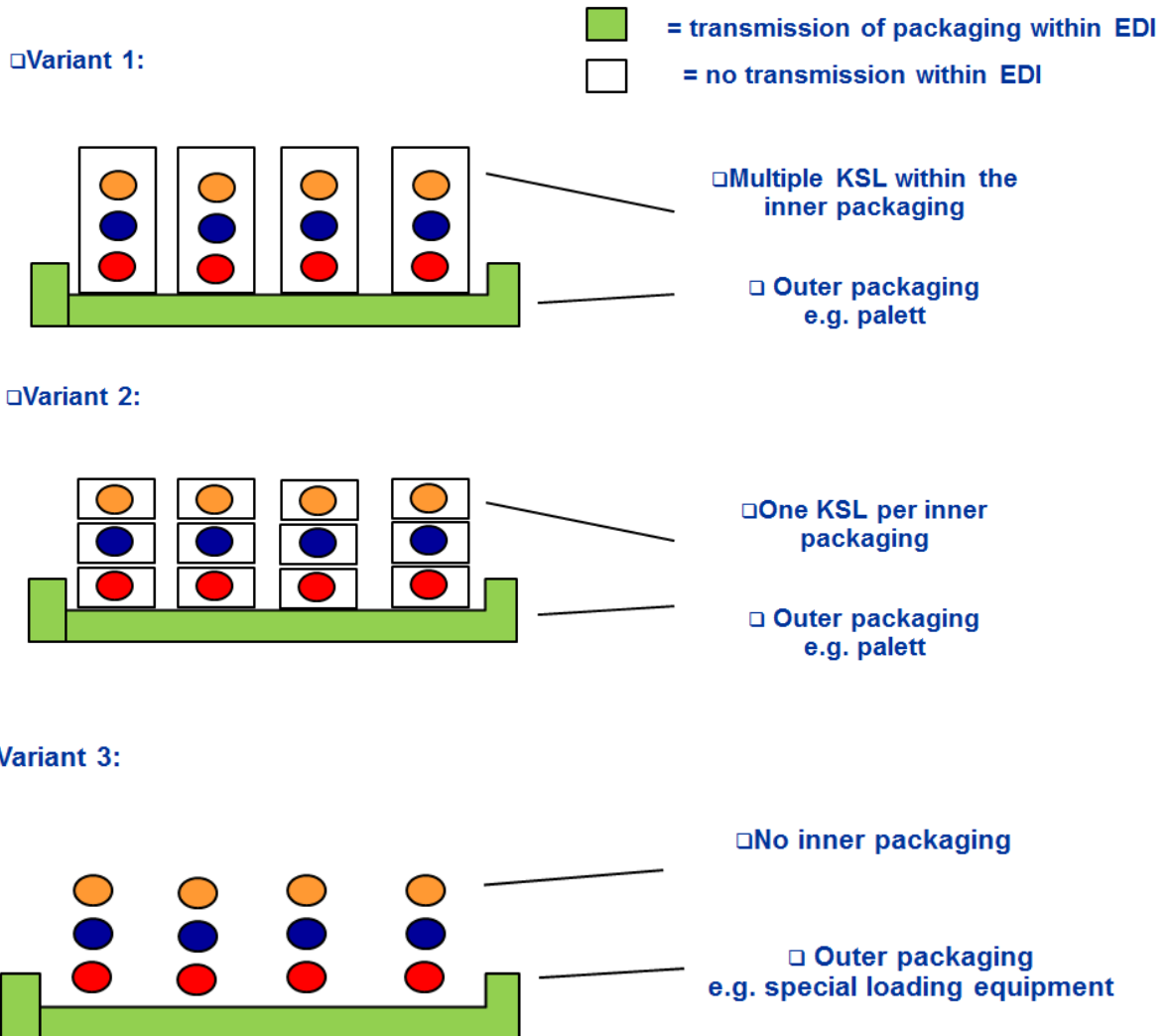
The structure of the message will always reflect the following assumption:

One shipment will only contain one delivery note (**1: 1 relationship**). The case, that one shipment will contain multiple delivery note numbers is excluded.

1.3 Packaging variants

1.3.1 Packaging variants JIT

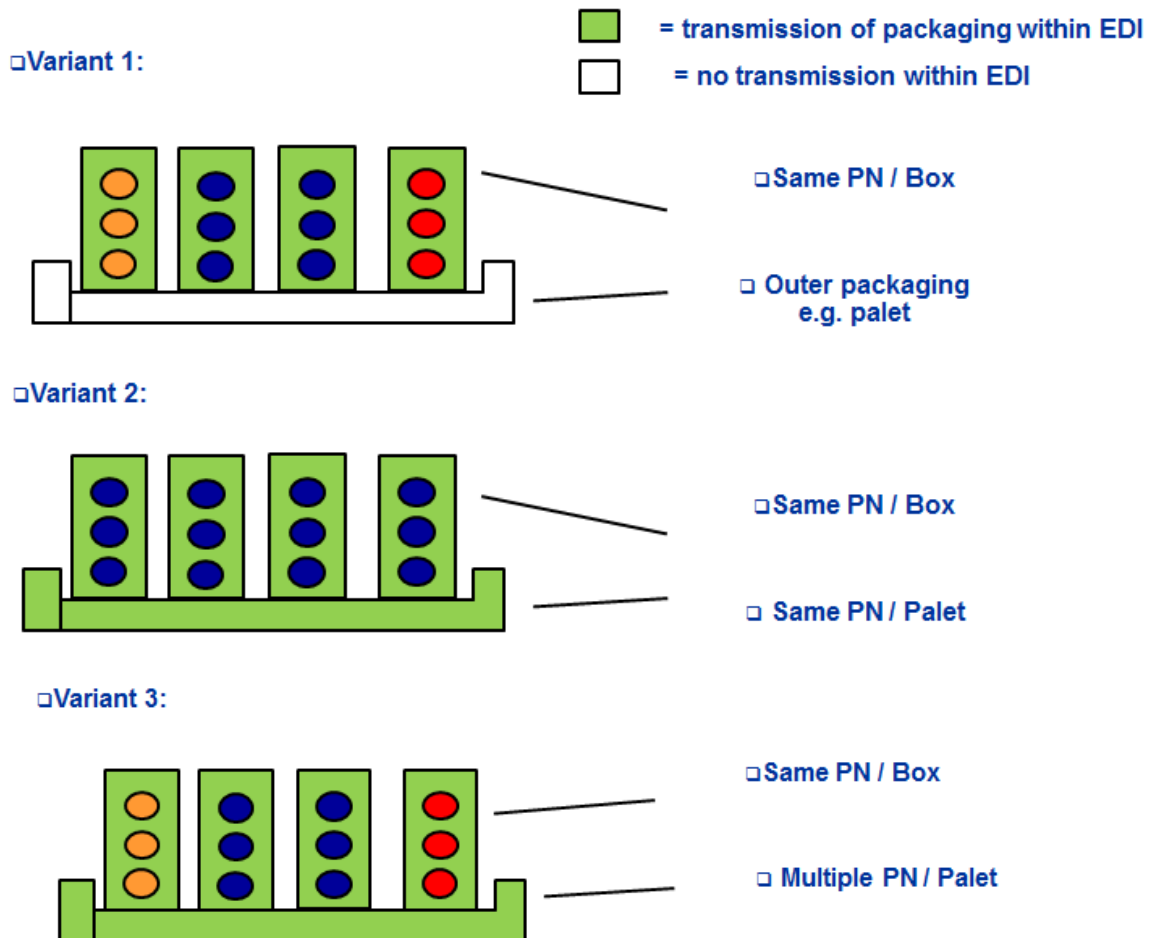
Packaging variants



The packaging structure within the EDI message is only showing the outer packaging. The inner packaging will not be transmitted in the outbound ASN and is not required in the inbound messages. In the outbound message, the unique identification of the outer packaging (Handling Unit) will be additionally transmitted.

1.3.2 Packaging Variants Non JIT

Packaging variant Non JIT



In the case of Non JIT part numbers there will be 3 packagagin variants.

Variant 1:

The boxes will be booked in individually at the service provider, so no outer packaging is needed in the transmission.

The packaging structure within the EDI message is only showing the inner packaging. The outer packaging will not be transmitted in the outbound ASN and is not required in the inbound messages. In the outbound message, the unique identification of the inner packaging will be additionally transmitted.

Variant 2:

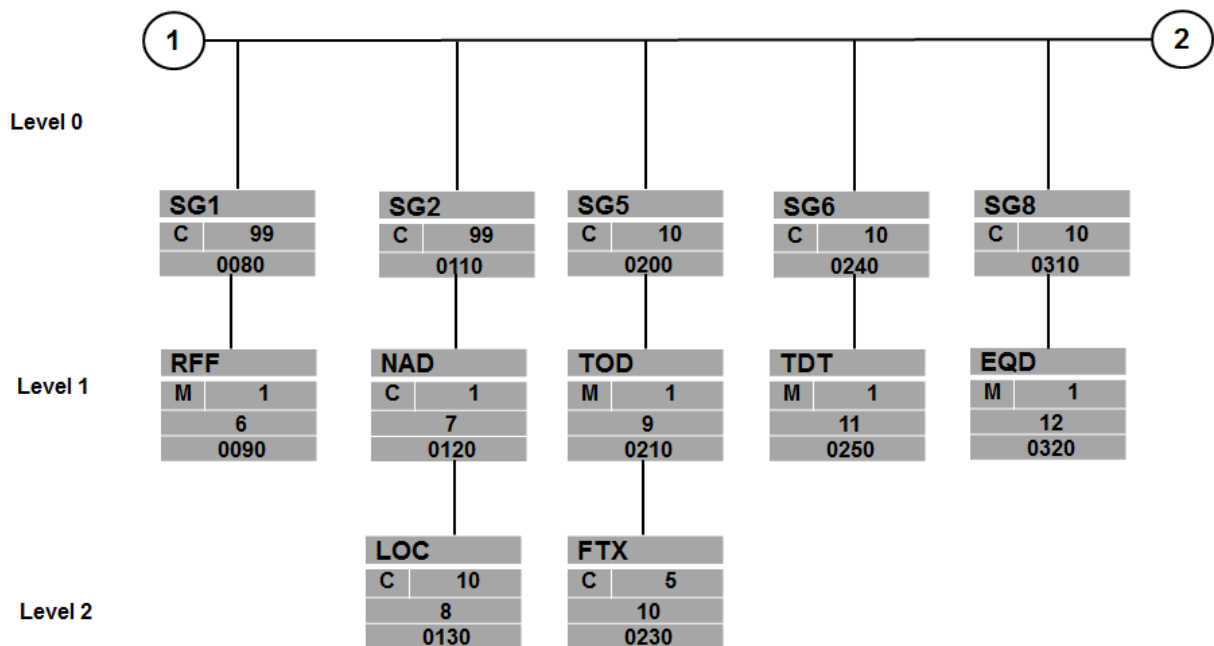
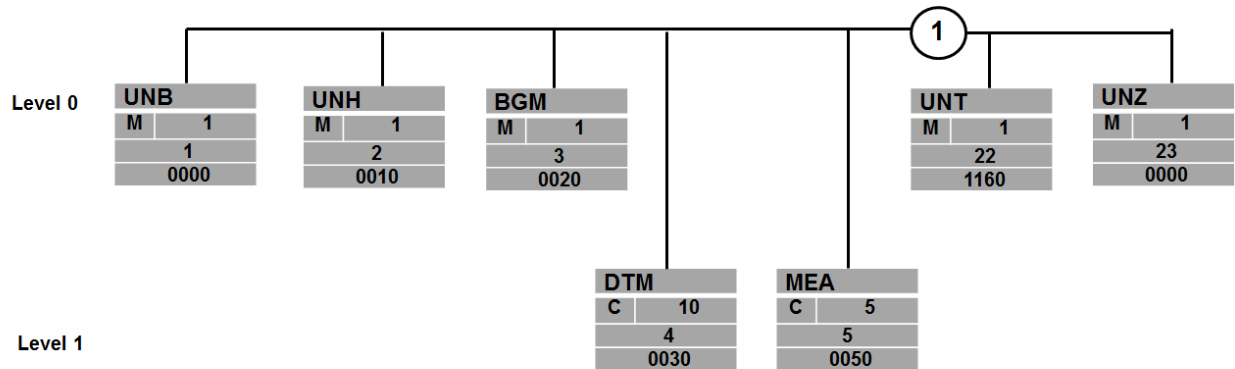
Homogenous pallet: all the boxes on the pallet contain the same part number. In the EDI structure, the qualifier for the master label (RFF+AAT) will have an M preceding the serial number.

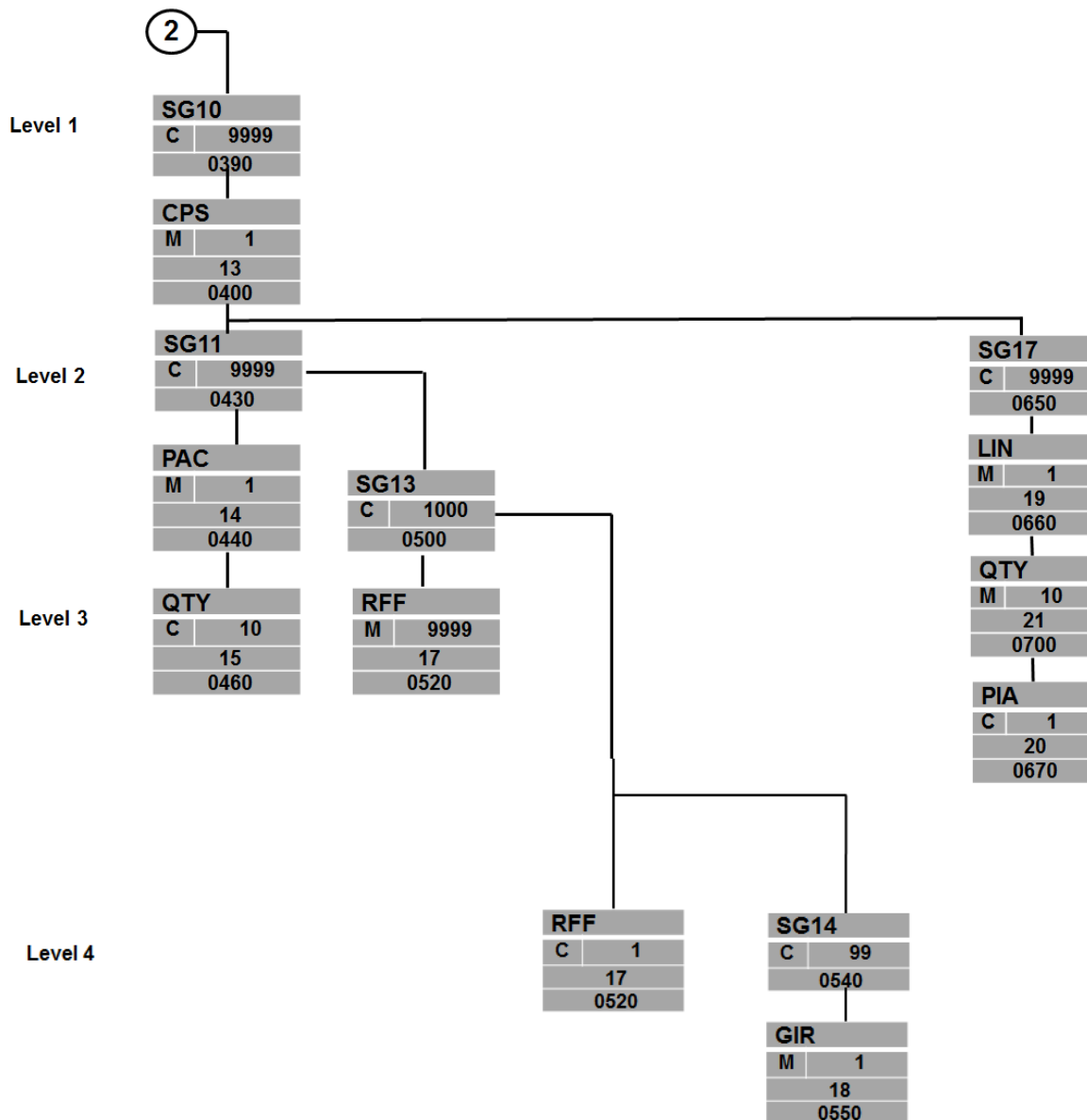
Variant 3:

Mixed pallet the boxes on the pallet contain different part numbers. Inside the boxes though there is always the same part number. In the EDI structure, the qualifier for the master label (RFF+AAT) will have a G preceding the serial number.

2 Message description

2.1 Branching diagram





2.2 Message structure

DESADV message					
Segment group	Descr.	Segment Nr.	St	MaxRep	Name
	UNB	1	M	1	Interchange header
	UNH	2	M	1	Message header
	BGM	3	M	1	Beginning of message
	DTM	4	C	10	Creation date/Goods issue date/Delivery date/Goods receipt date
	MEA	5	C	5	Shipment Net weight
SG1			C	99	
	RFF	6	M	1	Delivery note/Distinction of Cockpit and IR/MR KSL
SG2			C	99	
	NAD	7	C	1	Partner information (Sender, Ship-to, Ultimate destination)
	LOC	8	C	10	Delivery location of partner
SG5			C	10	
	TOD	9	M	1	Terms of delivery
	FTX	10	C	5	Free text
SG6			C	10	
	TDT	11	M	1	Mode of transport
SG8			C	10	
	EQD	12	M	1	Equipment details
SG10			C	9999	
	CPS	13	M	1	Packaging structure
SG11			C	9999	
	PAC	14	M	1	Packaging information
	QTY	15	C	10	Quantity per pack
SG13			C	1000	
	PCI	16	M	1	Packaging identification
	RFF	17	C	1	Unique packaging identification number
SG14			C	9999	
	GIR	18	M	1	Vehicle numbers included in packaging
SG17			C	9999	
	LIN	19	M	1	Shipment item, customer material number
	PIA	20	C	1	Additional product ID, supplier material number
	QTY	21	C	10	Delivery quantity
	UNT	22	M	1	Message trailer
	UNZ	23	M	1	Interchange trailer

2.3 Segments

2.3.1 UNB

Segments						
Nr.	Descr.	St	MaxRep	Level	Name	
1	UNB	M	1	0	Reference data – Header	

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
UNB						
S001	Syntax-identifier	M		M		
0001	Syntax-type	M	a4	M	a4	UNOA UN/ECE level A
0002	Syntax-version number	M	n1	M	n1	2 Version 2
S002	Sender	M		M		
0004	Sender identification	M	an..35	M	an..35	Senders Odette ID / EDI Address / DUNS, as agreed
0007	Partner identification code qualifier	C	an..4	C	an..4	EDI Address Qualifier. Only if EDI Address is used in UNB_S002_0004.
S003	Recipient	M		M		
0010	Recipient identification	M	an..35	M	an..35	Receivers Odette ID / EDI Address / DUNS, as agreed
0007	Partner identification code qualifier	C	an..4	C	an..4	EDI Address Qualifier. Only if EDI Address is used in UNB_S003_0010.
S004	Date/time of creation	M		M		
0017	Date of creation	M	n6	M	n6	Transmission file's date of creation YYMMDD
0019	Time of creation	M	n4	M	n4	transmission file's time of creation HHMM
0020	Interchange control reference	M	an..14	M	an..14	Unique reference number to identify transmission; assigned by sender (converter)
Remark:						
Example:						
UNB+UNOA:2+O0013000001XYZZ01+O0013000001ZYX01+001220:1247+1234567'						

2.3.2 UNH

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
2	UNH	M	1	0	Message data - Header

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
UNH							
0062	Message reference number	M	an..14	M	an..10	Message reference number in transmission file, starting with 1; assigned by sender (converter)	
S009	Message identifier	M		M			
0065	Message type	M	an..6	M	an..6	DESADV	
0052	Message version number	M	an..3	M	an..3	D	
0054	Message release number	M	an..3	M	an..3	10A	
0051	Controlling agency	M	an..2	M	an..2	UN	
Remark:							
Example:							
UNH+1234567891+DESADV:D:10A:UN'							

2.3.3 BGM

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
3	BGM	M	1	0	Beginning of message

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
BGM						
C002	Document/message name	C		R		
1001	Document name code	C	an..3	R	an..3	Message type 351 = Dispatch advice 632 = GR message 350 = GI message
C106	Document/message identification	C				
1004	Document identifier	C	an..35	R	an..10	Shipment number for ASN and GR message, Unique identifier for GI message
1056	Version identifier	C	an..9	R	an..9	
1225	Message function code	C	an..3	R	an..3	241 = JIT 242 = Non JIT

Remark:

BGM 1001 is used to distinguish the three different messages. In BGM 1004 there will be the shipment number in case of the dispatch advice. In case of the GR message, the shipment number from the dispatch advice should be content of BGM 1004. For the GI message, a unique number has to be sent as identifier.

Qualifier 1225 is used to specify if the message is for a JIT or a Non JIT part number

Example:

BGM+350+12345678:1+241'

2.3.4 DTM

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
4	DTM	C	10	1	Message data – Date/time

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
DTM							
C507	Date/time/period	M		M			
2005	Date or time or period function code qualifier	M	an..3	M/D	an..3	137 = Document/message date/time 11 = goods issue date 50 = goods receipt date	
2380	Date or time or period text	C	an..35	M/D	an..12	Date/time	
2379	Date or time or period format code	C	an..3	M/D	an..3	203 = CCYYMMDDHHMM	
Remark:							
DTM+137 is required for all messages. Additionally, for dispatch advice, DTM+11 is transmitted. For the GR message, DTM+50 is required.							
Example:							
DTM+137:201304152218:203 DTM+11:201304152218:203							

2.3.5 MEA

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
5	MEA	C	5	1	Measurements

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
MEA							
6311	Measurement purpose code qualifier	M	an..3	M	an..3	AAX = Consignment measurement	
C502	Measurement details	C		O			
6313	Measured attribute code	C	an..3	O	an..3	AAC = Total net weight	
C174	Value/range	C		O			
6411	Measurement unit code	M	an..3	M	an..3	KGM = kilogram	
6314	Measure	C	an..18	O	an..12	Good's weight excluding packaging	

Remark:
 Will be only transmitted within the dispatch advice message. This information is not required in the goods receipt and goods issue message.

Example:
 MEA+AAX+AAC+KGM:1234567'

2.3.6 RFF

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG1	C	99	1	RFF

6	RFF	M	1	1	Delivery information
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Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
RFF							
C506	Reference	M		M			
1153	Reference code qualifier	M	an..3	M/D	an..3	DQ = Delivery note number SS = sellers reference number ATS = external object reference	
1154	Reference identifier	C	an..70	M	an..10	Delivery note nr for DQ and ATS RBMR for interior/engine bay KSL and COC for cockpit KSL (case of dispatch advice/GR message and SS)	

Remark:

The RFF+DQ is mandatory for the dispatch advice and has to include the delivery note number.
In case of the goods issue message, the RFF+ATS is mandatory and has to include the delivery note or unique identification number from the dispatch of the service provider to the customer

JIT Specification

RFF+SS will contain in case of a dispatch advice, the distinction between deliveries with harnesses for interior/engine bay or the cockpit. This identifier will be sent within the dispatch advice and is also required within the goods receipt message and goods issue message to distinguish between interior/engine bay and cockpit harnesses.

This distinction is only required if cockpit and interior/engine bay harnesses are sent separately. If sent within one delivery note, RFF+SS will not be sent and is not required in GR and GI message.

In case of the goods issue message, the RFF+ATS is mandatory and has to include the delivery note or unique identification number from the dispatch of the service provider to the customer.

Non JIT Specification

Qualifier SS is not used

In case of the goods issue message, the RFF+ATS is mandatory and has to include the delivery note or unique identification number from the dispatch of the service provider to the customer

Example:

RFF+DQ:1234567891
RFF+SS:COC

2.3.7 NAD

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG2	C	99	1	NAD

7	NAD	C	1	1	Name and address
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Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
NAD						
3035	Party function code qualifier	M	an..3	M	an..3	SU = Supplier ST = Ship-to UD = Ultimate customer CZ = Consignor
C082	Party identification details					
3039	Party identifier	M	an..35	M	an..10	Reference number of the party
1131	Code list identification code	C	an..17	N		
3055	Code list responsible agency code	C	an..3	R	an..3	92 = Assigned by buyer or buyer's agent
C058	Name and address					
3124	Name and address description	M	an..35	O	an..35	
C080						
3036	Party name	M	an..70	O	an..70	

Remark:

SU – must be used in all cases.
Party who sends the parts, identification of LEONI. The identification used here is the LEONI supplier number given by the final customer

ST – can be used only with BGM+351
Party who is receiving the goods, identification of the service provider. Identification number given to the service provider by LEONI

UD – must be used in all cases
The final recipient of goods. The identification used here can be the plant number transmitted by the final customer to LEONI

CZ – can be used only with BGM+351
Identification assigned internally by LEONI in case production plant differs from seller plant

Example:

NAD+SU+LEONI SUPPLIER NO FINAL CUSTOMER::92
 NAD+ST+SPROVIDER::92
 NAD+UD+PLANT NO FINAL CUSTOMER::92
 NAD+CZ+LEONI INTERNAL SUPPLIER NO::92

2.3.8 LOC

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG2	C	99	1	LOC

8	LOC	C	10	2	Final delivery location
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Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
LOC						
3227	Location function code qual- ifier	M	an..3	M	an..3	7 = Place of delivery
C517	Location identification					
3225	Location identifier	C	an..35	D	an..10	Place of delivery
1131	Code list identification code	C	an..17	N		
3055	Code list responsible agen- cy code	C	an..3	D	an..3	92 = Assigned by buyer or buyer's agent
Remark:						
Describes the delivery location. Only relevant for NAD+ST if assigned by customer or service provider.						
Example:						
LOC+7+650Z::92						

2.3.9 TOD

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG5	C	10	1	TOD
9	TOD	M	1	1	Terms of delivery

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
TOD						
4055	Delivery or transport terms function code	C	an..3	C	an..3	5 = Transport condition
4215	Transport charges payment method code	C	an..3	C	an..3	ZZZ = mutually defined
C100	Terms of delivery or transport					
4053	Delivery or transport terms description code	C	an..3	C	an..3	CFR = Cost and Freight CIF = Cost, Insurance, Freight CIP = Carriage and Insurance Paid to CPT = Carriage Paid DAF = Delivered At frontier DDP = Delivered Duty Paid DDU = Delivered Duty Unpaid DEQ = Delivered Ex Quay DES = Delivered Ex Ship EXW = Ex Works FAS = Free Along Ship FCA = Free Carrier FOB = Free On Board
3055	Code list responsible agency code	C	an..3	C	an..3	92 = Assigned by buyer or buyer's agent

Remark:
 Optional segment only for information within the dispatch advice. Not required in GR or GI message.

Example:
 TOD+5+ZZZ+EXW::92

2.3.10 FTX

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG5	C	10	1	FTX
10	FTX	C	5	2	Free text

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
FTX						
4451	Text subject code qualifier	M	an..3	M	an..3	AAI = General information
4453	Free text function code	C	an..3	O	an..3	5 = Header
C107	Text reference	C		O		
4441	Free text description code	M	an..17	O	an..17	
C108	Text literal	C		O		
4440	Free text	M	an..512	O	an..512	Free text
Remark:						
Optional Segment for transmitting Free text information on header level. Usage has to be agreed between involved parties.						
Example:						
FTX+AAI+5+++FREE HEADER TEXT						

2.3.11 TDT

Segments						
Nr.	Descr.	St	MaxRep	Level	Name	
	SG6	C	10	1	TDT	
11	TDT	M	1	1	Mode of transport	

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
TDT						
8051	Transport stage code qualifier	M	an..3	M	an..3	12 = At departure
C220	Mode of transport	C		O		
8067	Transport mode name code	C	an..3	O	an..3	3 = Road transport
C001	Transport means	C		O		
8179	Transport means description code	C	an..8	O	an..8	31 = Truck
Remark:						
Optional segment only for information within the dispatch advice. Not required in GR or GI message.						
Example:						
TDT+12++3+31'						

2.3.12 EQD

Segments						
Nr.	Descr.	St	MaxRep	Level	Name	
	SG8	C	10	1	EQD	
12	EQD	M	1	1	Equipment / means of transport	

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
EQD						
8053	Equipment type code qualifier	M	an..3	M	an..3	TE = Trailer
C237	Equipment identification	C		O		
8260	Equipment identifier	C	an..17	O	an..17	Identification of the Trailer
1131	Code list identification code	C	an..17	N		
Remark:						
Optional segment to transmit identification of the trailer. Will normally contain the license plate number of the truck. Not required in GR or GI message.						
Example:						
EQD+TE+KT-AD-555'						

2.3.13 CPS

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	R	9999	1	CPS

13	CPS	M	1	1	Consignment packaging sequence
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Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
CPS						
7164	Hierarchical structure level identifier	M	an..35	M	an..35	Consecutively CPS-segment number
7166	Hierarchical structure parent identifier	C	an..35	N		
7075	Packaging level code	C	an..3	M	an..3	3 = Outer (JIT) 1 = Inner (Non JIT)

Remark:

JIT Specification
 As described in chapter 1.3.1, only the outer packaging is relevant for transmission. The CPS 7164 normally will be increased every time the outer packaging material changes within the shipment. Since the packaging material itself is not used (only the value DUMMY independent of the packaging material), there will be no change of packaging material independent of the physical packaging material.

Non JIT Specification
 Described in chapter 1.3.2 there are 3 packaging variants. The CPS 7164 normally will be increased every time the outer packaging material changes within the shipment. The packaging material transmitted in the CPS Segment is the code of the inner package (box) used.
 The code of the outer package is not transmitted.

Example:
 CPS+1++3'

2.3.14 PAC

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG11	C	9999	2	PAC

14	PAC	M	1	2	Package
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Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
PAC						
7224	Package quantity	C	n..8	R	n..8	Number of same auxiliary packaging in one packaging level
C202	Package type	C				
7065	Package type description code	C	an..17	R	an..17	Packaging code
1131	Code list identification code	C	an..17	N		
3055	Code list responsible agency code	C	an..3	R	an..3	92 = Assigned by buyer or buyer's agent

Remark:

JIT Specification
 The PAC segment has to be created for the same packaging material type. The packaging code (customer material number of the packaging material) is not used in these processes. The value DUMMY has to be sent instead of the real material number.

Non JIT Specification
 The PAC segment has to be created for the same packaging material type. The packaging code (customer material number of the packaging material) is used in this process. The LEONI specific packaging code will be used in this segment.

Example:

PAC+4++DUMMY::92' – JIT

PAC+4++T537002::92' – Non JIT

2.3.15 QTY

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG11	C	9999	2	QTY
15	QTY	C	10	3	Quantity per pack

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
QTY						
C186	Quantity details	M		D		
6063	Quantity type code qualifier	M	an..3	D	an..3	52 = Quantity per pack
6060	Quantity	M	an..35	D	an..10	Quantity
6411	Measurement unit code	C	an..8	D	an..8	C62 = Unit
Remark:						
JIT Specification						
This is an optional segment, which won't be used currently.						
Non JIT Specification						
For NON JIT DESADV this segment is mandatory.						
Example:						
QTY+52:12:C62'						

2.3.16 PCI

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG11	C	9999	2	PAC
	SG13	C	1000	3	PCI

16	PCI	M	1	3	Package identification
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Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
PCI							
4233	Marking instructions code	C	an..3	M	an..3	17 = Seller's instructions	
C827	Type of marking	C					
7511	Marking type code	M	an..3	M	an..3	1 = Not marked with an EAN.UCC system code	
1131	Code list identification code	C	an..17	N			
3055	Code list responsible agency code	C	an..3	N			
Remark:							
Example:							
PCI+17+++1'							

2.3.17 RFF

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG11	C	9999	2	PAC
	SG13	C	1000	3	RFF
17	RFF	M	1	4	Package identification

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
RFF						
C506	Reference	M		D		
1153	Reference code qualifier	M	an..3	D	an..3	AAT = Master label number
1154	Reference identifier	C	an..70	D	an..10	Packaging identification number
Remark:						
Is reflecting the unique number of the outer packaging (also visible on the label). Only used and necessary in the dispatch advice message. For the GR and GI message, this RFF segment is not required.						
Non JIT Specification						
The packaging identification number will contain the type of pallet before the serial number.						
M = Homogeneous pallets						
G = Mixed Pallet						
Example:						
RFF+AAT:7000232367' – JIT						
RFF+AAT:M340000034' – Non JIT						

2.3.18 GIR

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG11	C	9999	2	PAC
	SG13	C	1000	3	PCI
	SG14	C	9999	4	GIR

18	GIR	M	1	4	Related identification numbers
----	------------	---	---	---	--------------------------------

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
GIR						
7297	Set type code qualifier	M	an..3	M	an..3	7 = value list
C206	Identification number	M		M		
7402	Object identifier	M	an..35	M	an..35	Vehicle number or Serial label number
7405	Object identification code qualifier	C	an..3	M	an..3	VV = vehicle identity number ML = Box Serial Number AP = Product CS = Attribute Set
4405	Status description code	C	an..3	C	an..3	125 = Reorder

Remark:
<p>JIT Specification The GIR segment is required in all types of messages and is including all vehicle numbers either per packaging unit (if RFF+AAT is used) or without relation to the packaging identification number. Qualifier AP is used for the model code of the car which was defined by OEM (MY216, X260 etc.) Qualifier CS is used for the type of harness (e.g. Engine, Cockpit, etc.)</p> <p>Non JIT Specification The GIR segment is required in all types of messages and is including all box serial numbers either per packaging unit (if RFF+AAT is used) or without relation to the packaging identification number, in the case no outer packaging is transmitted. See packaging variants in chapter 1.3.2</p>
Example:
GIR+7+FZNR1:VV' – JIT
GIR+7+S340000035:ML' – Non JIT

2.3.19 LIN

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG17	C	9999	2	LIN
19	LIN	M	1	2	Line item

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
LIN							
1082	Line item identifier	C	an..6	R	an..6	Consecutive number for the line item	
1229	Action code	C	an..3	N			
C212	Item number identification	C					
7140	Item identifier	C	an..35	R	an..35	Part number	
7143	Item type identification code	C	an..3	R	an..3	BP = Buyer's part number	
Remark:							
Will include the customer material number of the specified line item. Required in all messages.							
Example:							
LIN+10++1J0 820 119:BP'							

2.3.20 PIA

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG17	C	9999	2	PIA
20	PIA	C	10	2	Additional product id

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
PIA							
4347	Product identifier code qualifier	M	an..3	M	an..3	12 = Alternate product identification	
C212	Item number identification	M		M			
7140	Item identifier	C	an..35	R	an..35	Part number	
7143	Item type identification code	C	an..3	R	an..3	SA = Supplier's article number	
Remark:							
Will include the supplier material number of the specified line item. It is a conditional segment in all messages.							
Example:							
PIA+12+ 91G006099:SA'							

2.3.21 QTY

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
	SG10	C	9999	1	CPS
	SG17	C	9999	2	QTY
20	QTY	M	1	2	Delivery quantity

Standard				Implementation		
Descr.	Name	St	Format	St	Format	Usage - Remarks
QTY						
C186	Package quantity	M				
6063	Package type	M	an..3	M	an..3	12 = dispatch quantity
6060	Package type description code	M	an..35	M	an..10	
6411	Code list identification code	C	an..8	R	an..3	C62 = Unit
Remark:						
Delivery quantity for the customer material number specified in the LIN segment.						
Example:						
QTY+12:792:C62'						

2.3.22 UNT

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
21	UNT	M	1	0	Message trailer

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
UNT							
0074	Number of segments in the message	M	an..6	M	an..6	Number of segments in one message	
0062	Message reference number	M	an..14	M	an..14	reference number of message in transmission file, identical with UNH DE 0062	
Remark:							
Example:							
UNT+54+12345'							

2.3.23 UNZ

Segments					
Nr.	Descr.	St	MaxRep	Level	Name
22	UNZ	M	1	0	Interchange trailer

Standard				Implementation			
Descr.	Name	St	Format	St	Format	Usage - Remarks	
UNZ							
0036	Interchange control count	M	an..6	M	an..6	number of messages in one transmission file, should be always 1	
0020	Interchange control reference	M	an..14	M	an..14	reference number of transmission, identical with UNB DE 0020	
Remark:							
Example:							
UNZ+1+1234567'							

3 Example messages

3.1 Advanced shipping notice JIT

UNB+UNOA:2+O0013000298LEONISCH+O001300000SP+130415:2326+449'	
UNH+1+DESADV:D:10A:UN'	
BGM+351+00302468:1+241	→ identification outbound delivery, shipment #
DTM+137:201304152218:203	→ date of creation
DTM+11:201304152218:203	→ goods issue date
MEA+AAX+AAC+KGM:1042	→ net weight
RFF+DQ:80229178	→ delivery note
RFF+SS:COC	→ identification of cockpit harnesses
NAD+SU+LEONI::92	→ Sender
NAD+ST+SPROVIDER::92	→ Ship-to
LOC+7+650Z::92	→ Unloading point
TOD+5+ZZZ+EXW::92	
TDT+12++3+31	
EQD+TE+KT-AD-555	
CPS+1++3	
PAC+1++DUMMY::92	→outer packaging
PCI+17+++1	
RFF+AAT:700003424	→ packaging identification 1
GIR+7+FZNR1:VV	→ vehicle 1 included in packaging 700003424
GIR+7+FZNR2:VV	
LIN+10++A2613:BP	→ material number 1
QTY+12:792:C62	→ aggregated qty of material 1
LIN+20++BT00380:BP	
QTY+12:120:C62	
UNT+3+1'	
UNZ+1+449'	

3.2 Advanced shipping notice Non JIT

UNB+UNOA:2+O0013000298LEONISCH+O001300000SP+130415:2326+449'	
UNH+1+DESADV:D:10A:UN'	
BGM+351+5700032+1:242	→ identification outbound delivery, shipment #
DTM+137:201304152218:203	→ date of creation
DTM+11:201304152218:203	→ goods issue date
MEA+AAX+AAC+KGM:1042	→ net weight
RFF+DQ:50	→ delivery note
NAD+SU+LEONI::92	→ Sender
NAD+ST+SPROVIDER::92	→ Ship-to
LOC+7+650Z::92	→ Customer unloading point
TOD+5+ZZZ+EXW::92	
TDT+12++3+31	
EQD+TE+KT-AD-555	
CPS+1++1	
PAC+2++T537002::92	→inner packaging
QTY+52:5:C62	
PCI+17++1	
RFF+AAT:M340000034	→ packaging identification Master label
GIR+7+S340000035:ML	→ packaging identification Box label 1
GIR+7+S340000036:ML	→ packaging identification Box label 2
LIN+++A2045407207:BP	→ material number customer 1
PIA+12+923TES601:SA	→ material number supplier 1
QTY+12:10:C62	→ aggregated qty of material 1
UNT+3+1'	
UNZ+1+449'	

3.3 Goods receipt message JIT

UNB+UNOA:2+ O001300000SP + O0013000298LEONISCH +130415:2326+449'	
UNH+1+DESADV:D:10A:UN'	
BGM+632+00302468:1+241	→ identification goods receipt, shipment #
DTM+137:201304152218:203	→ date of creation
DTM+50:201304161432:203	→ goods receipt date
RFF+DQ:80229178	→ delivery note (from outbound delivery)
RFF+SS:COC	→ identification of cockpit harnesses
NAD+SU+LEONI::92	→ Sender
NAD+ST+SPROVIDER::92	→ Ship-to
CPS+1++3	
PAC+1++DUMMY::92	→ outer packaging
PCI+17+++1	
GIR+7+FZNR1:VV	→ vehicle 1
GIR+7+FZNR2:VV	
LIN+10++A2613:BP	→ material number 1
QTY+12:792:C62	→ aggregated qty of material 1
LIN+20++BT00380:BP	
QTY+12:120:C62	
UNT+3+1'	
UNZ+1+449'	

3.4 Goods receipt message Non JIT

UNB+UNOA:2+ O001300000SP + O0013000298LEONISCH +130415:2326+449'	
UNH+1+DESADV:D:10A:UN'	
BGM+632+5700032:1+242	→ identification goods receipt, shipment #
DTM+137:201304152218:203	→ date of creation
DTM+50:201304161432:203	→ goods receipt date
RFF+DQ:50	→ delivery note (from outbound delivery)
NAD+SU+LEONI::92	→ Sender
NAD+ST+SPROVIDER::92	→ Ship-to
CPS+1++1	
PAC+2++T537002::92	→ inner packaging
QTY+52:5:C62	
LIN+++ A2045407207:BP	→ material number customer 1
PIA+12+923TES601:SA	→ material number supplier 1
QTY+12:10:C62	→ aggregated qty of material 1
UNT+3+1'	
UNZ+1+449'	

3.5 Goods issue message JIT

UNB+UNOA:2+ 0001300000SP + 00013000298LEONISCH +130415:2326+449'	
UNH+1+DESADV:D:10A:UN'	
BGM+350+00376546:1+241	→ identification goods issue to customer, unique#
DTM+137:201304152218:203	→ date of creation
RFF+ATS:80229178	→ ext. delivery note or unique #
RFF+SS:COC	→ identification of cockpit harnesses
NAD+SU+ SPROVIDER::92	→ Sender
NAD+ST+CUSTOMER::92	→ Ship-to
LOC+7+650Z::92	→ Customer unloading point
CPS+1++3	
PAC+1++DUMMY::92	→outer packaging (customer material)
PCI+17+++1	
GIR+7+FZNR1:VV	→ vehicle 1
GIR+7+FZNR2:VV	
LIN+10++A2613:BP	→ material number 1
QTY+12:792:C62	→ aggregated qty of material 1
LIN+20++BT00380:BP	
QTY+12:120:C62	
UNT+3+1'	
UNZ+1+449'	

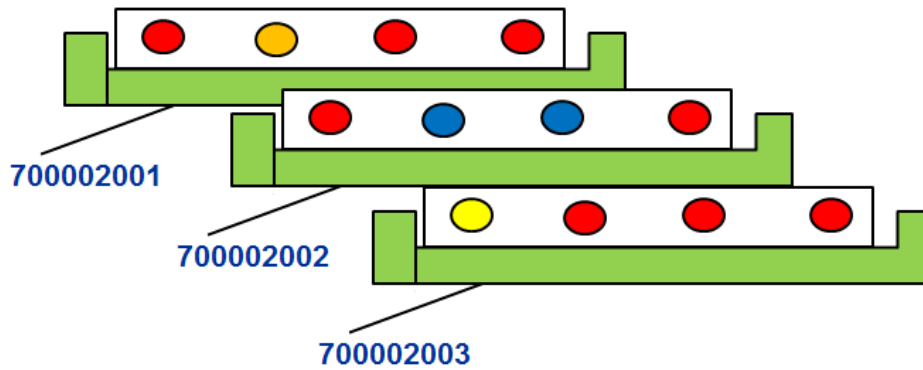
3.6 Goods issue message Non JIT

UNB+UNOA:2+ 0001300000SP + 00013000298LEONISCH +130415:2326+449'	
UNH+1+DESADV:D:10A:UN'	
BGM+350+00376546:1+242	→ identification goods issue to customer, unique#
DTM+137:201304152218:203	→ date of creation
RFF+ATS:80229178	→ ext. delivery note or unique #
NAD+SU+ SPROVIDER::92	→ Sender
NAD+ST+CUSTOMER::92	→ Ship-to
LOC+7+650Z::92	→ Customer unloading point
CPS+1++1	
PAC+1++DUMMY::92	→inner packaging (customer material)
LIN+10++A2613:BP	→ material number 1
PIA+12+923TES601:SA	→ material number supplier 1
QTY+12:792:C62	→ aggregated qty of material 1
PAC+1++DUMMY::92	
LIN+10++BT00380:BP	
PIA+12+923TES501:SA	
QTY+12:120:C62	
UNT+3+1'	
UNZ+1+449'	

The Packaging structure is irrelevant in the GI Message for Non JIT Material. The RFF+ATS number must be unique within 1 year and must not be repeated in the message itself.

3.7 Packaging structure (outbound) JIT

3.7.1 Variant 1: Same packaging type (4 harnesses on one pallet)



CPS+1+++3
PAC+3+++DUMMY::92

→ outer packaging

PCI+17+++1
RFF+AAT:700002001
GIR+7+FZNR1:VV
GIR+7+FZNR2:VV
GIR+7+FZNR3:VV
GIR+7+FZNR4:VV

→ packaging identification 1
 → vehicle 1 included in packaging 700002001
 → vehicle 2 included in packaging 700002001

PCI+17+++1
RFF+AAT:700002002
GIR+7+FZNR5:VV
GIR+7+FZNR6:VV
GIR+7+FZNR7:VV
GIR+7+FZNR8:VV

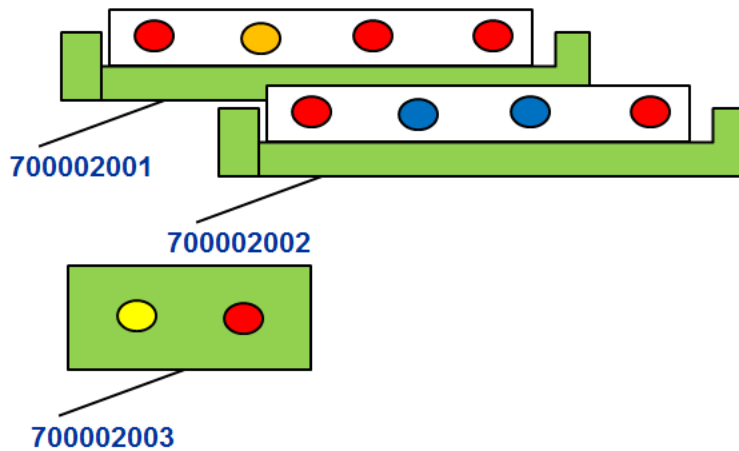
→ packaging identification 2
 → vehicle 5 included in packaging 700002002

PCI+17+++1
RFF+AAT:700002003
GIR+7+FZNR7:VV
GIR+7+FZNR8:VV
GIR+7+FZNR9:VV
GIR+7+FZNR10:VV

LIN+10+++A2613:BP
QTY+12:12:C62
LIN+20+++BT00380:BP
QTY+12:10:C62

→ material number 1
 → aggregated qty of material 1

3.7.2 Variant 2: Different packaging type (4 harnesses on pallet and 2 harnesses within rack)



CPS+1+++3

PAC+3+++DUMMY::92

→ outer packaging

PCI+17+++1

RFF+AAT:700002001

→ packaging identification 1

GIR+7+FZNR1:VV

→ vehicle 1 included in packaging 700002001

GIR+7+FZNR2:VV

→ vehicle 2 included in packaging 700002001

GIR+7+FZNR3:VV

GIR+7+FZNR4:VV

PCI+17+++1

RFF+AAT:700002002

→ packaging identification 2

GIR+7+FZNR5:VV

→ vehicle 5 included in packaging 700002002

GIR+7+FZNR6:VV

GIR+7+FZNR7:VV

GIR+7+FZNR8:VV

PCI+17+++1

RFF+AAT:700002003

GIR+7+FZNR7:VV

GIR+7+FZNR8:VV

LIN+10++A2613:BP

→ material number 1

QTY+12:12:C62

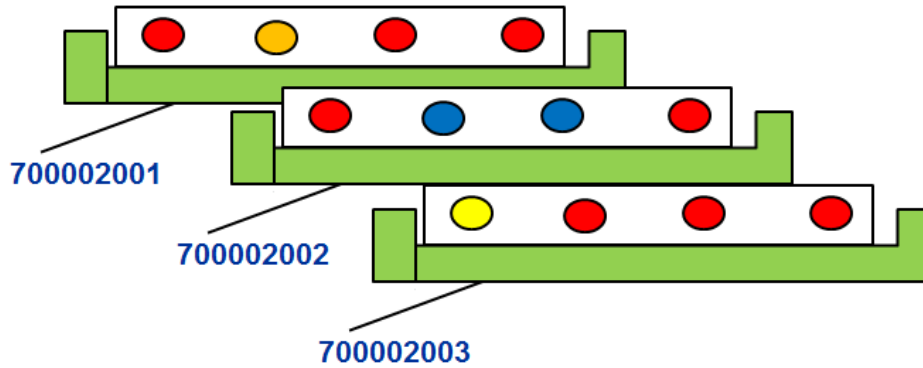
→ aggregated qty of material 1

LIN+20++BT00380:BP

QTY+12:10:C62

3.8 Packaging structure (inbound) JIT

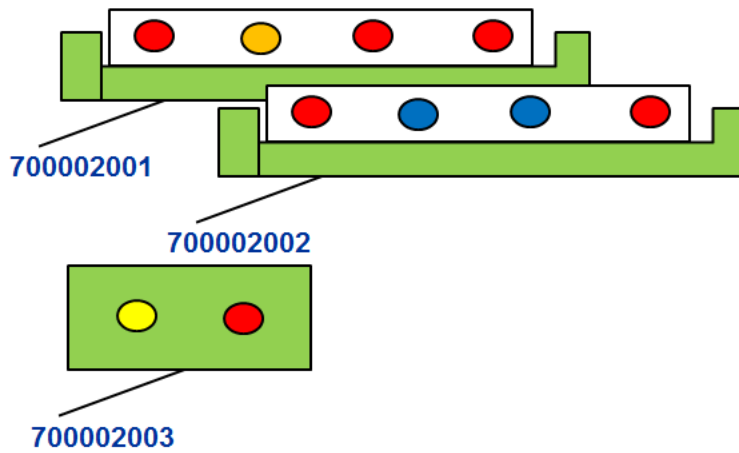
3.8.1 Variant 1: Same packaging type (4 harnesses on one pallet)



CPS+1++3	
PAC+3++DUMMY::92	→ outer packaging
PCI+17+++1	
GIR+7+FZNR1:VV	→ vehicle 1
GIR+7+FZNR2:VV	→ vehicle 2
GIR+7+FZNR3:VV	
GIR+7+FZNR4:VV	
GIR+7+FZNR5:VV	→ vehicle 5
GIR+7+FZNR6:VV	
GIR+7+FZNR7:VV	
GIR+7+FZNR8:VV	
GIR+7+FZNR7:VV	
GIR+7+FZNR8:VV	
GIR+7+FZNR9:VV	
GIR+7+FZNR10:VV	
GIR+7+FZNR11:VV	
GIR+7+FZNR12:VV	
LIN+10++A2613:BP	→ material number 1
QTY+12:12:C62	→ aggregated qty of material 1
LIN+20++BT00380:BP	
QTY+12:10:C62	

In the inbound message, the packaging structure is not important and isn't required within the EDI message. The value DUMMY must be sent for PAC 7065 .Please pay attention to the max. repetition of SG14 within the SG13 of 99. If higher, new SG13 (PCI) has to be created. All vehicle numbers should appear below the PAC segment with type DUMMY.

3.8.2 Variant 2: Different packaging type (4 harnesses on pallet and 2 harnesses on rack)

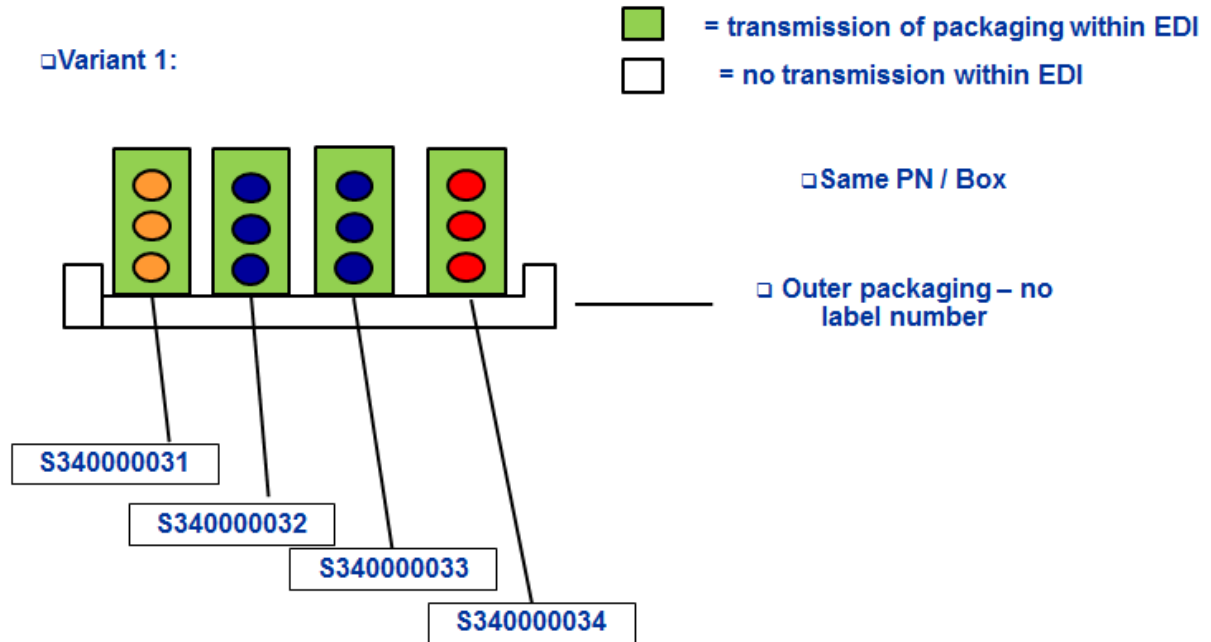


- CPS+1++3**
- PAC+3++DUMMY::92** → first outer packaging (customer material number)
- PCI+17+++1**
- GIR+7+FZNR1:VV** → vehicle 1
- GIR+7+FZNR2:VV** → vehicle 2
- GIR+7+FZNR3:VV**
- GIR+7+FZNR4:VV**
- GIR+7+FZNR5:VV** → vehicle 5
- GIR+7+FZNR6:VV**
- GIR+7+FZNR7:VV**
- GIR+7+FZNR8:VV**
- GIR+7+FZNR9:VV**
- GIR+7+FZNR10:VV**
- LIN+10++A2613:BP** → material number 1
- QTY+12:12:C62** → aggregated qty of material 1
- LIN+20++BT00380:BP**
- QTY+12:10:C62**

All vehicle numbers should appear below the PAC segment with type DUMMY.

3.9 Packaging structure (Outbound) – Non JIT

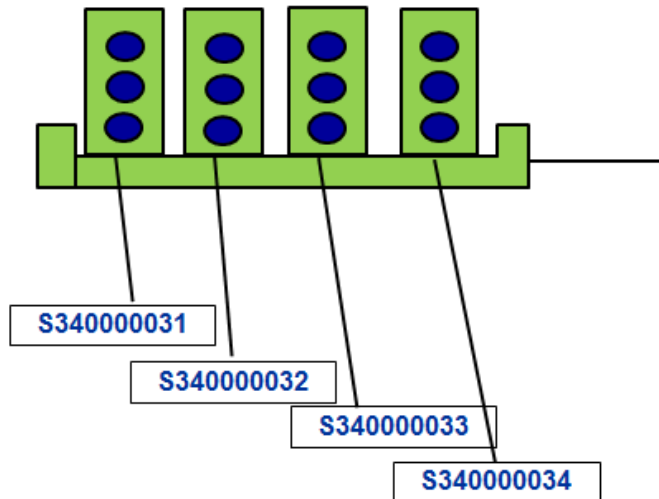
3.9.1 Variant 1: Only inner boxes transmitted per EDI



CPS+1++1	
PAC+1++T537002++::92	→inner packaging
QTY+52:3:C62	
PCI+17++1	
GIR+7+S340000031:ML	→ packaging identification Box label 1
LIN+++ A2045407207:BP	→ material number 1
PIA+12+923TES601:SA	→ material number supplier 1
QTY+12:3:C62	→ aggregated qty of material 1
CPS+2++1	
PAC+2++T537002::92	→inner packaging
QTY+52:3:C62	
PCI+17++1	
GIR+7+S340000032:ML	→ packaging identification Box label 2
GIR+7+S340000033:ML	→ packaging identification Box label 2
LIN+++ A2045407307:BP	→ material number 2
PIA+12+923TES501:SA	→ material number supplier 2
QTY+12:6:C62	→ aggregated qty of material 2
CPS+3++1	
PAC+1++T537002::92	→inner packaging
QTY+52:3:C62	
PCI+17++1	
GIR+ML+S340000034	→ packaging identification Box label 3
LIN+++ A2045407407:BP	→ material number 3
PIA+12+923TES401:SA	→ material number supplier 3
QTY+12:6:C62	→ aggregated qty of material 3

3.9.2 Variant 2: Homogenous Pallet

□Variant 2:



□Same PN / Box

□ Outer packaging –
□M34000005

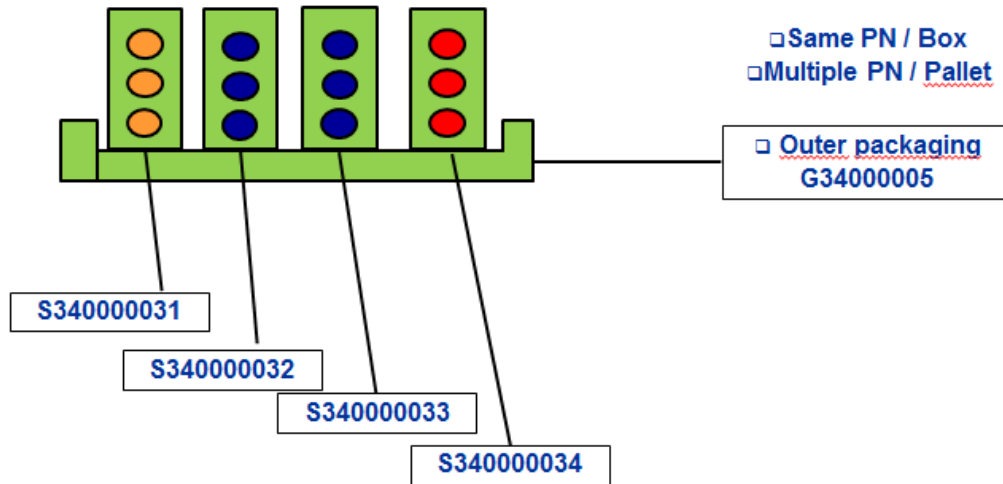
CPS+1++1'
 PAC+4++ T537002::92'
 QTY+52:3:C62'
 PCI+17++1'
 RFF+AAT:M330000005'
 GIR+7+S340000031:ML'
 GIR+7+S340000032:ML'
 GIR+7+S340000033:ML'
 GIR+7+S340000034:ML'
 LIN+++A2045407207:BP'
 PIA+12+923TES401:SA
 QTY+12:12:C62'

2 Pallets for the same part number in the same transmission would look like this:

CPS+1++1'
 PAC+1++ T537002::92'
 QTY+52:3:PCE'
 PCI+17'
 RFF+AAT:M330000041'
 GIR+7+S330000043:ML'
 PAC+4++ T537002::91'
 QTY+52:3:PCE'
 PCI+17'
 RFF+AAT:M330000051'
 GIR+3+S330000053:ML'
 GIR+3+S330000054:ML'
 GIR+3+S330000055:ML'
 GIR+3+S330000056:ML'
 LIN+++ A2045407207:BP
 PIA+12+923TES401:SA '
 QTY+12:16:C62'

3.9.3 Variant 3: Mixed Pallet

□Variant 3:



CPS+1++1'
 PAC+1++ T537002::92'
 QTY+52:3:C62'
 PCI+17++1'
 RFF+AAT:G340000005'
 GIR+7+S340000031:ML'
 LIN+++A2045407207:BP'
 PIA+12+923TES401:SA'
 QTY+12:3:C62'
 CPS+2++1'
 PAC+2++ T537002::92'
 QTY+52:3:C62'
 PCI+17++1'
 RFF+AAT:G340000005'
 GIR+7+S340000032:ML'
 GIR+7+S340000033:ML'
 LIN+++A2045407307:BP'
 PIA+12+923TES501:SA'
 QTY+12:6:C62'
 CPS+3++1'
 PAC+1++ T537002::92'
 QTY+52:3:C62'
 PCI+17++1'
 RFF+AAT:G340000005'
 GIR+7+S340000034:ML'
 LIN+++A2045407407:BP'
 PIA+12+923TES603:SA'
 QTY+12:3:C62'