VDA Verband der Automobilindustrie

Packaging Transport Order and Confirmation and Order Confirmation for Packaging

VDA 4933

Version 2.2, October 2026



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Process description

This Recommendation describes the use of UN/EDIFACT standard message DESADV for Packaging transport order data.

The document intends to support interested users to understand the flow and content of ordering information in the overall process and how specific business situations can be represented in the EDI messages. For the complete EDI message implementation guidelines refer to the Annexes.

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Publisher Verband der Automobilindustrie e.V. (VDA)
Behrenstrasse 35, 10117 Berlin

www.vda.de

This recommendation was developed by ICT Working Committee (AK KIT) together with an Odette project group.

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Version Version 2.2, October 2026

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1 Introduction

In the supply chain processes of the automotive industry transport orders are issued on a daily basis to organise the various delivery processes of empty packages, materials, finished vehicles and spare parts. Depending on the specific process the issuer of these transport orders can vary between different parties: the packaging manager, the supplier or the vehicle manufacturer.

To omit too many manual interactions, media breaks or delays in processing standardises EDI-messages may be used for the communication of transport order data and respective confirmations.

For the sake of simplicity this document focusses on the empty packaging supply chain. However, the same principles apply to material and spare part deliveries.

2 Assumptions

The packaging manager calculated the demand of empty packages for a given supplier based on the delivery instructions issued by the customer (push process) or received an order from the packaging receiver (pull process). Based on the customer's packaging instructions the supplier needs:

960 small load carriers 600 x 400 x 280 mm – KLT6428

80 pallets 1200 x 800 x 140 mm – 000PAL

80 lids 1200 x 800 x 20 mm – LID123

Shipments from the supplier to the customer are to be prepared as bundles consisting of:

1 x 000PAL + 12 x KLT6428 + 1 x LID123 (also referred to as BUNDLE A)

The contract with the transport service provider specifies the use of tautliners for all transport processes.



A tautliner has 13.6 loading meters, 2.70 m loading height and 2.48 m loading with. The loading area has place for 34 pallets of the a.m. size.

In order to optimise the usage of the transport capacity for the empty package transport the bundles have to be configured as BUNDLE B, consisting of 1 x 000PAL, 16 x KLT6428 and 1 x LID123.

Remaining packaging items have to be bundled individually. In the example the transport configuration would be 60 BUNDLE B (i.e. 960 KLT, 60 pallets and 60 lids) plus 4 bundles consisting of 5 pallets and 5 lids each.

The goods are to be picked up on the 2nd May 2018 and shall arrive on 4th May 2018 at the ship-to.

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3 Packaging transport order

The above described transport configuration would be ordered using the UN/EDIFACT message DESADV according to VDA recommendation 4933 part 2 as follows:

UNA:+.? '	Service string advice
UNB+UNOC:3+OD012345:59:123+987654321:1:LEFAS+180502:1446+144659++++++1'	Interchange header
UNH+1+DESADV:D:07A:UN:GBOF10'	Message header
BGM+X07::10:Profil+PackagingTransportOrder1+9'	Begin of message, message function and number
DTM+137:20180425:102'	Message date
DTM+10:20180502:102'	Requested shipment date 2.5.2018
DTM+2:20180504:102'	Requested delivery date 4.5.2028
MEA+AAE++C62:64'	No of TPU: 64
MEA+AAX+AAD+KGM:2404'	Total gross weight: 2404 kg
MEA+AAX+ABJ+MTQ:76.7'	Total shipment volume: 76.7 m3
MEA+LMT++MTR:12.8'	Loading meters: 12.8
RFF+CRN:SH-1234'	Shipment number
RFF+ABE:CODE123'	“Door-opener” code
NAD+MR+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Message receiver
RFF+ANK:473254123'	DUNS number
NAD+MS+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Message sender
NAD+FW+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Forwarder
RFF+ANK:473254123'	DUNS number
NAD+BY+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Buyer of the transport service
RFF+ANK:987654321'	DUNS number
NAD+SF+987654321::16++Car Manufacturing Inc.+Breite Straße 23+Berlin++13156+DE'	Ship-from
LOC+9+Yard 5::O91'	Loading point
NAD+ST+77665501::O91++Supplier Inc.:Plant Oxford+Mars Business Park:Gate 25+Oxford++OX2 8AB+GB'	Ship-to
LOC+11+Dock 15::O91'	Unloading point
RFF+ANK:123456799'	DUNS number

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TOD+6++CFR'	Terms of delivery: CFR Oxford
LOC+1+:::Oxford'	“
EQD+X01'	Trigger segment only
HAN+101::10:DEL'	Handling instruction: advise delivery by telephone
FTX+SIC+++Ladungssicherung notwendig:Load has to be secured …'	Instructions
FTX+OSI+++Tel.?: 0044 123 8776 2334'	Other service information: telephone number for handling instruction
CPS+1++3'	Group of TPUs
PAC+60++BUNDLE B::O91'	60 TPU BUNDLE B
MEA+AAZ+LN+MMT:1200'	Length: 1200 mm
MEA+AAZ+WD+MMT:800'	Width: 800 mm
MEA+AAZ+HT+MMT:1280'	Height: 1280 mm
MEA+AAZ+ABJ+MTQ:1.23'	Volume 1.23 m3
MEA+ABU++C62:2'	Transport stackability: 2
QTY+171:4:C62'	Storage stackability: 4
PCI+17+++J::5'	Individual TPUs
COD+NO'	Trigger
MEA+AAZ+AAB+KGM:35'	Weight of TPU: 35 kg
LIN+1++000PAL:O91'	Components: item 1 – 000PAL
QTY+490:1:C62'	1 piece
LIN+2++LID123:O91'	Components: item 2 – LID123
QTY+490:1:C62'	1 piece
LIN+3++KLT6428:O91'	Components: item 3 – KLT6428
QTY+490:16:C62'	16 pieces
CPS+2++3'	Group of TPUs
PAC+4’	4 TPU no bundle code
MEA+AAZ+LN+MMT:1200'	Length: 1200 mm
MEA+AAZ+WD+MMT:800'	Width: 800 mm
MEA+AAZ+HT+MMT:760'	Height: 1280 mm
MEA+AAZ+ABJ+MTQ:0.73'	Volume 730 m3
MEA+ABU++C62:3'	Transport stackability: 3
QTY+171:4:C62'	Storage stackability: 4
PCI+17+++J::5'	Individual TPUs
COD+NO'	Trigger
MEA+AAZ+AAB+KGM:76'	Weight of TPU: 76 kg

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LIN+4++000PAL:O91'	Components: item 1 – 000PAL
QTY+490:4:C62'	4 pieces
LIN+5++LID123:O91'	Components: item 2 – LID123
QTY+490:4:C62'	4 pieces
CPS+3++5'	Summarised figures
LIN+6++KLT123:O91'	Packaging type code ID
IMD+B++:::KLT 60 x 40 x 28 cm::de'	Packaging description
QTY+12:960:C62'	Total quantity 960 pieces
ALI+DE'	Country of origin: Germany
RFF+ON:OR-2345:1'	Order number and line
LIN+7++000PAL:O91'	Packaging type code ID
IMD+B++:::Pallet 1200 x 800 x 15 mm::de'	Packaging description
QTY+12:80:C62'	Total quantity 80 pieces
ALI+DE'	Country of origin: Germany
RFF+ON:OR-2345:2'	Order number and line
LIN+8++LID123:O91'	Packaging type code ID
IMD+B++:::LID 1200 x 800 mm::de'	Packaging description
QTY+12:80:C62'	Total quantity 80 pieces
ALI+DE'	Country of origin: Germany
RFF+ON:OR-2345:3'	Order number and line
UNT+78+1'	End of message
UNZ+1+144659'	End of interchange

4 Packaging transport order confirmation

4.1 Confirmation without changes

A transport order confirmation following the VDA 4933 part 4 guideline and simply confirming the order data could look like this:

UNA:+.? '	Service string advice
UNB+UNOC:3+987654321:1:LEFAS+OD012345:59+180502:1730+656512'	Interchange header
UNH+1+DESADV:D:07A:UN:GBOH10'	Message header
BGM+X08::10:Profil+Confirmation1+9'	Begin of message, message function and number; code 9 = original
DTM+137:20180502:102'	Message date

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DTM+10:20180502:102'	Requested shipment date 2.5.2018
DTM+2:20180504:102'	Requested delivery date 4.5.2028
DTM+79:201805021400:203'	Confirmed shipment (pick-up) date / time 2.5.2018, 2.00 p.m.
DTM+69:20180504:102'	Confirmed delivery date 4.5.2018
MEA+AAE++C62:64'	Number of TPU: 64
RFF+CRN:SH-1234'	Shipment number
RFF+TIN:PackagingTransportOrder1'	Referenced transport order number
RFF+AKI:432101234'	Transport chain reference number
RFF+ABE:CODE123'	„Door opener“ code
NAD+MS+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Message sender
RFF+ANK:473254123'	DUNS number
NAD+MR+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Message receiver
NAD+FW+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Freight forwarder
RFF+ANK:473254123'	DUNS number
NAD+CA+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Carrier
RFF+ANK:473254123'	DUNS number
NAD+BY+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Buyer of the transport service
RFF+ANK:987654321'	DUNS number
NAD+SF+987654321::16++Car Manufacturing Inc.+Breite Straße 23+Berlin++13156+DE'	Ship-from
LOC+9+Yard 5::O91'	Loading point
NAD+ST+77665501::O91++Supplier Inc.:Plant Oxford+Mars Business Park:Gate 25+Oxford++OX2 8AB+GB'	Ship-zo
LOC+11+Dock 15::O91'	Unloading point
RFF+ANK:123456799'	DUNS number
UNT+27+1'	End of message
UNZ+1+656512'	Ens of interchange

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4.2 Packaging transport order refusal

In many scenarios there are standing contracts and agreed upon procedures between the transport ordering party and the transport service provider. Especially if there is a revolving day-to-day transport order process, often deadlines apply: if the transport order was not transmitted by a certain time, the TSP will refuse the order.

A transport order response with the status “not accepted” could look as follows:

UNA:+.? '	Service string advice
UNB+UNOC:3+987654321:1:LEFAS+OD012345:59+180502:1730+656512'	Interchange header
UNH+1+DESADV:D:07A:UN:GBOH10'	Message header
BGM+X08::10:Profil+12345+27'	Begin of message, message function and number; **code 27 = not accepted**
DTM+137:20180502:102'	Message date
DTM+10:20180502:102'	Requested pick-up date
RFF+TIN:PackagingTransportOrder1'	Reference to the transport order number
NAD+MS+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Message sender
RFF+ANK:473254123'	DUNS number
NAD+MR+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Message receiver
NAD+FW+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Forwarder
RFF+ANK:473254123'	DUNS number
NAD+SF+987654321::16++Car Manufacturing Inc.+Breite Straße 23+Berlin++13156+DE'	Ship-from
NAD+ST+77665501::O91++Supplier Inc.:Plant Oxford+Mars Business Park:Gate 25+Oxford++OX2 8AB+GB'	Ship-to
RFF+ANK:123456799'	DUNS number
UNT+14+1'	End of message
UNZ+1+656512'	End of interchange

4.3 Confirmation with split of shipment

The boundaries of a shipment are defined in the automotive industry according to the following rules:

- One ship-from party and place of loading
- One ship-to party and place of unloading
- One truck-load or full container load.

If either the transport ordering party miscalculated the physical dimensions of the shipment or the TSP cannot use the usual means of transport and has to use an alternative means with smaller dimensions, it

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may be necessary to split the shipment. In this situation the TSP will send two or more transport order confirmations indicating the shipment split.

Assuming the TSP has to use a standard 12t truck with 7.2 loading meters capacity instead of the trailer, the transport order confirmation would need to indicate a split: 32 TPU with one shipment and another 32 TPU with a second shipment.



The EDIFACT messages could look like this:

UNA:+.? '	Service string advice
UNB+UNOC:3+987654321:1:LEFAS+OD012345:59+180502:1730+656512'	Interchange header
UNH+1+DESADV:D:07A:UN:GBOH10'	Message header of the first message in interchange
BGM+X08::10:Profil+Confirmation1+O9'	Begin of message, message function and number; **code O9 = Confirmation with shipment split**
DTM+137:20180502:102'	Message date
DTM+10:20180502:102'	Requested pick-up date
DTM+2:20180504:102'	Reference to the transport order number
DTM+79:201805021400:203'	Confirmed pick-up date /time 2.5.2018, 2 p.m.
DTM+69:20180504:102'	Confirmed delivery date
MEA+AAE++C62:32'	Number of TPUs in shipment: 32
RFF+TIN:PackagingTransportOrder1'	Transport order reference
RFF+AKI:432101234'	Transport chain reference
NAD+MS+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Message sender
RFF+ANK:473254123'	DUNS number
NAD+MR+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Message receiver
NAD+FW+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Forwarder
RFF+ANK:473254123'	DUNS number
NAD+CA+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Carrier

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RFF+ANK:473254123'	DUNS number
NAD+BY+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Buyer of transport service
RFF+ANK:987654321'	DUNS number
NAD+SF+987654321::16++Car Manufacturing Inc.+Breite Straße 23+Berlin++13156+DE'	Ship-from
LOC+9+Yard 5::O91'	Place of loading
NAD+ST+77665501::O91++Supplier Inc.:Plant Oxford+Mars Business Park:Gate 25+Oxford++OX2 8AB+GB'	Ship-to
LOC+11+Dock 15::O91'	Place of unloading
RFF+ANK:123456799'	DUNS number
TDT+X01++++++++B AB 123'	Means of transport ID: B AB 123
CPS+1++5'	List of TPUs – line 1
PAC+32+:35+BUNDLE B::O91'	32 TPU type BUNDLE B
MEA+AAZ+LN+MMT:1200'	Length
MEA+AAZ+WD+MMT:800'	Width
MEA+AAZ+HT+MMT:1280'	Height
MEA+AAZ+ABJ+MTQ:1.23'	Volume
MEA+ABU++C62:2'	Transport stackability
UNT+33+1'	End of message 1
UNH+2+DESADV:D:07A:UN:GBOH10'	Begin of message 2
BGM+X08::10:Profil+Confirmation2+O9'	Begin of message, message function and number; **code O9 = Confirmation with shipment split**
DTM+137:20180502:102'	Message date
DTM+10:20180502:102'	Requested pick-up date
DTM+2:20180504:102'	Requested delivery date
DTM+79:201805021430:203'	Confirmed pick-up date /time 2.5.2018, 2.30 p.m.
DTM+69:20180504:102'	Confirmed delivery date
MEA+AAE++C62:32'	Number of TPUs in shipment: 32
RFF+TIN:PackagingTransportOrder1'	Transport order reference
RFF+AKI:432101235'	Transport chain reference
NAD+MS+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Message sender
RFF+ANK:473254123'	DUNS number
NAD+MR+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße	Message receiver

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23+Berlin++13156+DE'	
NAD+FW+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Forwarder
RFF+ANK:473254123'	DUNS number
NAD+CA+88776655::O91++Global Transports+71 Great Peter Street+London++SW1P 2BN+GB'	Carrier
RFF+ANK:473254123'	DUNS number
NAD+BY+987654321::16++Car Manufacturing Inc.:Packaging Management Dept.+Breite Straße 23+Berlin++13156+DE'	Buyer of transport service
RFF+ANK:987654321'	DUNS number
NAD+SF+987654321::16++Car Manufacturing Inc.+Breite Straße 23+Berlin++13156+DE'	Ship-from
LOC+9+Yard 5::O91'	Place of loading
NAD+ST+77665501::O91++Supplier Inc.:Plant Oxford+Mars Business Park:Gate 25+Oxford++OX2 8AB+GB'	Ship-to
LOC+11+Dock 15::O91'	Place of unloading
RFF+ANK:123456799'	DUNS number
TDT+X01++++++++B XZ 768'	Means of transport ID: B AB 123
CPS+1++5'	List of TPUs – first type
PAC+28+:35+BUNDLE B::O91'	26 TPU type BUNDLE B
MEA+AAZ+LN+MMT:1200'	Length
MEA+AAZ+WD+MMT:800'	Width
MEA+AAZ+HT+MMT:1280'	Height
MEA+AAZ+ABJ+MTQ:1.23'	Volume
MEA+ABU++C62:2'	Transport stackability
CPS+2++5'	List of TPUs – second type
PAC+4+:35+N/A'	4 TPU type N/A
MEA+AAZ+LN+MMT:1200'	Length
MEA+AAZ+WD+MMT:800'	Width
MEA+AAZ+HT+MMT:760'	Height
MEA+AAZ+ABJ+MTQ:0.73'	Volume
MEA+ABU++C62:3'	Transport stackability
UNT+40+2'	End of message 2
UNZ+2+656512'	End of interchange

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5 Annexe

1. VDA 4933 T1 – Materials transport order
2. VDA 4933 T2 – Packaging transport order
3. VDA 4933 T3 – Materials transport order confirmation
4. VDA 4933 T4 – Packaging transport order confirmation

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