EDI-Change-Management – Short guide

VDA 4933T1 Transport Order, VDA 4987 Despatch Advice

KL-GMD/A Digital Solutions – Transport management and Partner Collaboration

PUBLIC

Motivation for the changes!

Why do we do this?

Why are changes in the messages necessary?

Standardization
"Speaking the same language"

- The definition and introduction of international standards by UN-CEFACT, Odette and VDA has created a common basis for digital communication.

- The target of these standards is providing the partner with the data in the defined message formats that it needs to perform its contractually agreed service **without having to intervene manually** and thus to enable and accelerate digitization.

Digitalisation
"How to accelerate daily business"

- EDI supports standardized communication between process partners along the logistics supply chain and thus enables the **automation** of process steps.

- EDI decouples the provision of data between source and target system has established itself as a robust solution for data exchange

Paperless transport
"How to reduce the ecological footprint"

- By consistently using the new global message formats in high quality, we create the prerequisite for paperless transport.

- By connecting shipment and transport data using the standard reference model over the used messages, the basis is set for paperless processes.

Basic knowledge about the business process

Important for correct implementation!

PUBLIC

Important definitions of terms according to VDA
…and deviations at Volkswagen!

Shipment

- Shipment refers to the totality of material which are to be transported / shipped at a certain point in time from the ship from party of the goods (e.g. supplier's plant) to a certain (VDA) place of discharge of the ship to party of goods (e.g. customer's plant) on **one means of transport** (s.a. truck, coach…).Normally, each shipment is identified by a unique reference number, the shipment number (formerly shipment load reference number).
- *Conclusion: The supplier should create one VDA 4987 Despatch advice and one VDA 4939 shipment document per shipment.*

Important

Place of discharge

- The place of discharge according to the VDA definition represents the physical location at the ship to premises where the means of transport (truck, wagon, etc.) is unloaded and thus the transport process is terminated. For historical reasons, Volkswagen has so far deviated from this industry solution and used the term "delivery point" in its communication. In the VDA 4933 and VDA 4987 formats, this is header information that applies to the entire shipment.
- *Conclusion: The VW delivery point corresponds to the VDA "point of discharge"! One shipment is bundled to one point of discharge!*

Important

Place of internal destination

- The place of internaltdestination according to the VDA definition represents the internal location at the ship to where the goods are stored. For historical reasons, Volkswagen has so far deviated from this industry solution and used the term place of discharge in communication. In the VDA 4933 and VDA 4987 formats, this is item information that is assigned to the material. A shipment can therefore contain several internal places of destination.
- *Conclusion: The "VW place of discharge" corresponds to the VDA "place of internal destination" in the VDA standard! One shipment can contain one or mo[re] places of internal destination as it is related to the article!!*

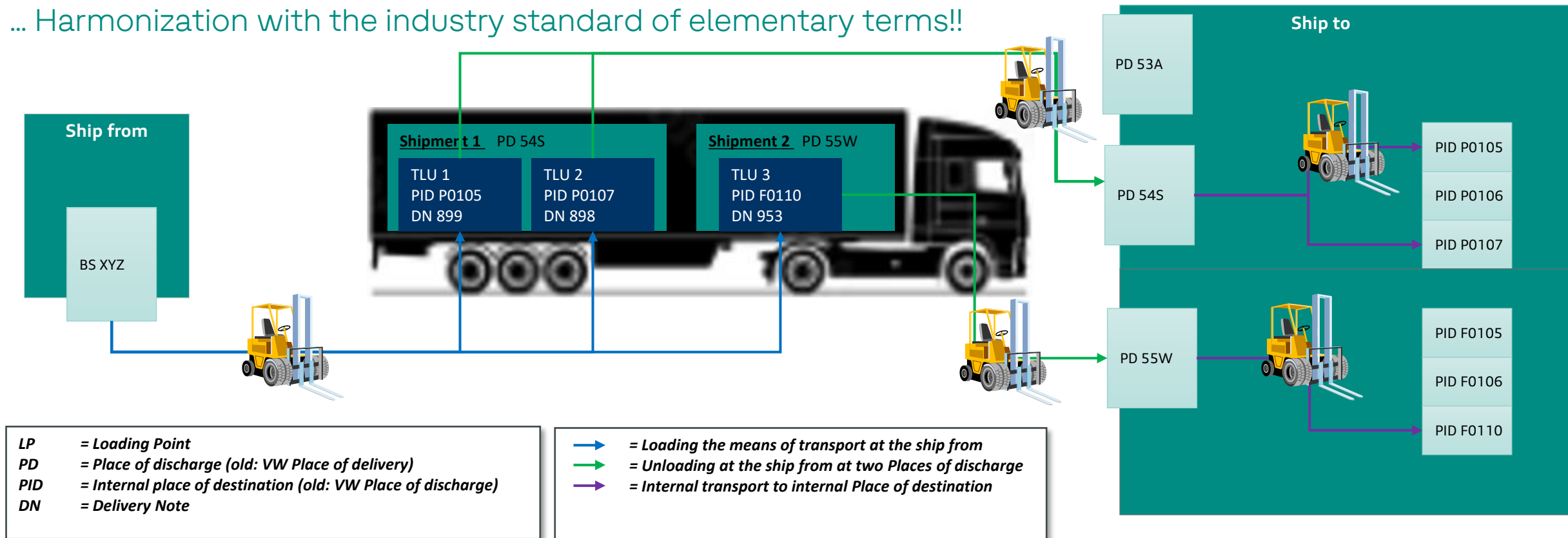Important

Delivery Note

- The delivery note is the classic goods accompanying document. There is no form requirement for the delivery note. Depending on the contractual agreement or the structure of the supplier's ERP system, a delivery note can be created per Material, package or per entire shipment and must be transmitted on item level.
- *Conclusion: A shipment can contain one or more delivery notes*

Important

Important precondition…

… Harmonization with the industry standard of elementary terms!!

Ship from

BS XYZ

Shipment 1   PD 54S

TLU 1
PID P0105
DN 899

TLU 2
PID P0107
DN 898

Shipment 2   PD 55W

TLU 3
PID F0110
DN 953

Ship to

PD 53A

PD 54S

PID P0105

PID P0106

PID P0107

PD 55W

PID F0105

PID F0106

PID F0110

LP = Loading Point
PD = Place of discharge (old: VW Place of delivery)
PID = Internal place of destination (old: VW Place of discharge)
DN = Delivery Note

→ = Loading the means of transport at the ship from
→ = Unloading at the ship from at two Places of discharge
→ = Internal transport to internal Place of destination

Volkswagen name and value		Meaning inside the process		VDA name and value
VW Unloading point: 54S	=	Physical place of unloading of means of transport	=	VDA Place of discharge 54S
VW Place of discharge: P0105	=	Internal place of destination e. g. storage location	=	VDA Internal place of destination P0105

Why is this important?

Impact on the participants of the transport process…

TLU 1 PID P0105 DN 899	TLU 4 PID P0108 DN 899	TLU 7 PID P0111 DN 900	TLU 10 PID P0114 DN 899
TLU 2 PID P0106 DN 897	TLU 5 PID P0109 DN 899	TLU 8 PID P0112 DN 899	TLU 11 PID P0115 DN 898
TLU 3 PID P0107 DN 899	TLU 6 PID P0110 DN 899	TLU 9 PID P0113 DN 900	TLU 12 PID P0116 DN 899

Ship from A is loading a shipment to Ship to plant Wolfsburg
Shipment 1
PD 54S = 1 Place of Discharge

= 12 internal places of destination

	Consolidation of shipment based on point of discharge	Consolidation of shipment based on internal place of destination
Amount of VDA4987 Despatch Advices	1 Despatch Advice	12x Despatch Advices
Amount of VDA4939 Shipping Documents	1 Shipping document	12x Shipping document
Process steps validation of document with one x-dock: 1. Despatch at ship from 2. Pick up by forwarder at ship from 3. Delivery at x-dock by forwarder 4. Goods Receipt at x-dock 5. Goods issue at x-dock 6. Pick up by forwarder at x-dock 7. Delivery at ship to by forwarder 8. Goods receipt at ship to	**8 Process Steps** **1** x Despatch confirmed **1** x Pick up confirmed **1** x Delivery at x-dock confirmed **1** x Goods Receipt at x-dock **1** x Goods issue at x-dock **1** x Pick up by forwarder at x-dock **1** x Delivery at ship to by forwarder **1** x Goods receipt at ship to	**96 Process Steps** **12** x Despatch confirmed **12** x Pick up confirmed **12** x Delivery at x-dock confirmed **12** x Goods Receipt at x-dock **12** x Goods issue at x-dock **12** x Pick up by forwarder **12** x Delivery at ship to by forwarder **12** x Goods receipt at ship to

TLU	*= Transport Loading Unit*
PD	*= Place of discharge (old: VW Place of destination)*
PID	*= Internal place of destination (old: VW Place of discharge)*
DN	*= Delivery Note*

What is changing or needs to be considered

Explanation based on examples!

PUBLIC

VDA 4933 T1 Transport Order - Material

Change of transmission file head and message header

Transmission file head – changes based on ISO 9735

- *The ISO essentially regulates which character sets may be used. ISO 9735 version 11 ("Application rules for the structuring of data in the exchange of electronic messages in an open system") only permits EDIFACT Syntax 4 as a valid standard in the future. Therefore, the user data header segment changes*

Message header – change of directory

- *In order to be able to use new content of the UN/CEFACT Directory, the current version of the message was created on the basis of Directory 20B. Therefore, the message header segment changes*

The following example shows the change

VDA 4933 T1 Transport Order Version (Guideline Version VDA 2.6 VW 1.9) **old**

Transmission file head information (envelope transmission file)

UNB+UNOC:**3**+O001234567OXYZ01+O0013000001VW   KOI+220301:1340+16393'

Message header (envelope message) up to Version

UNH+9+DESADV:**D:07A:UN:GAVI26 (up to this version)**

VDA 4933 T1 Transport Order Version (Guideline Version VDA 3.0 VW 3.0) **new**

Transmission file head information (envelope transmission file)

UNB+UNOC:**X**+O001234567OXYZ01+O0013000001VW   KOI+**20**220301:1340+16393'

Message header (envelope message) up to Version

UNH+9+DESADV:**D:20B:UN:GAVI30 (starting with this Version)**

VDA 4933 T1 Transport Order - Material

Harmonization with the industry standard→ Place of discharge/internal destination

In the **old version** of the guideline, the VW place of delivery and the VW place of discharge was transmitted at the header level of the message, which resulted that **two messages** were generated for **one shipment** with different VW places of discharge

In the **new version** of the guideline, the message structure is transferred to the VDA industry standard:

1. The VW **place of delivery** corresponds to the VDA **place of discharge** and is transmitted at header level in segment LOC+11.
2. The VW place of discharge corresponds to the VDA **Internal place of destination** and is transmitted at item level in the LOC+7 segment of the message.

This has the consequence that in this example the transport order of **one shipment** with material for several places of internal destination is to be transmitted in **one message** and thus corresponds to the <u>same structure as the VDA 4987 Despatch Advice.</u>

VDA 4933 T1 Transport Order Version (Guideline Version VDA 2.6 VW 1.9) **old**

Transmission file head information (envelope transmission file)

UNB+UNOC:**3**+O001234567OXYZ01+O0013000001VW   KOI+220301:1340+16393'

Message header (envelope message) up to Version

UNH+9+DESADV:**D:07A:UN:GAVI26 (up to this version)**

Message content

Segment-Group	Level	VDA Segment…	e. g. value	Description
SG2	Header	LOC+7	54S	place of delivery
SG2	Header	LOC+11	P0105	Place of discharge

VDA 4933 T1 Transport Order Version (Guideline Version VDA 2.6 VW 1.9) **old**

Transmission file head information (envelope transmission file)

UNB+UNOC:**3**+O001234567OXYZ01+O0013000001VW   KOI+220301:1340+16393'

Message header (envelope message) up to Version

UNH+9+DESADV:**D:07A:UN:GAVI26 (up to this version)**

Message content

Segment-Group	Level	VDA Segment…	e. g. value	Description
SG2	Header	LOC+7	54S	place of delivery
SG2	Header	LOC+11	P0107	Place of discharge

VDA 4933 T1 Transport Order Version (Guideline Version VDA 2.9 VW 2.0) **new**

Transmission file head information (envelope transmission file)

UNB+UNOC:**X**+O001234567OXYZ01+O0013000001VW   KOI+**20**220301:1340+16393'

Message header (envelope message) up to Version

UNH+9+DESADV:**D:20B:UN:GAVI30 (starting with this Version)**

Message content

Segment-Group	Level	VDA Segment…	e. g. value	Description
SG2	Header	LOC+11	54S	Place of discharge
SG22	Item	LOC+7	P0105	Internal destination
SG22	Item	LOC+7	P0107	Internal destination

VDA 4933 T1 Transport Order - Material

New information about movement type

According to the old version of the Guideline, the data of the forwarder already had to be transmitted in the segment NAD+FW for European transports for shipments with the Incoterms "EXW" (ex works) and "FCA" (free carrier).

In the new version of the Guideline, **a new segment TMD+** has been included in segment group 6 to transmit the movement type. This information must now also be transmitted in order to make the consignment data available digitally to the logistics service providers involved in the transport.

Please use:

1.   For ordering the area freight forwarder:
▪   X05 Distribution by area contract freight forwarder

2.   For contracting direct load forwarders:
▪   X01 Full Truck Load - with separate tender

Attention! In this context, we would also like to point out once again that the message must be transmitted with the correct process indicator (segment BGM data element 1000), as errors have often occurred here in the past!

For the ordering of:
1.   Area freight forwarder
▪   LTL BGM+343:::**LTL**+12345678:1+9

2.   Direct freight forwarders
▪   FTL BGM+343:::**FTL**+12345678:1+9

VDA 4933 T1 Transport Order Version (Guideline Version VDA 3.0 VW 3.0) <u>new</u>				
Transmission file head information (envelope transmission file)				
UNB+UNOC:**X**+O001234567OXYZ01+O0013000001VW KOI+**20**220301:1340+16393'				
Message header (envelope message) up to Version				
UNH+9+DESADV:**D:20B:UN:GAVI30 (starting with this Version)**				
Message content				
Segment-Group	Level	VDA Segment...	e. g. value	Description
SG2	Head	LOC+11	54S	VDA place of discharge
SG6	**Head**	**TMD+**	**X01**	**Movement Type**
SG22	Item	LOC+7	P0105	VDA int. Place of destination
SG22	Item	LOC+7	P0107	VDA int. Place of destination

VDA 4987 Despatch Advice - Material

Change of transmission file head and message header

Transmission file head – changes based on ISO 9735

- *The ISO essentially regulates which character sets may be used. ISO 9735 version 11 ("Application rules for the structuring of data in the exchange of electronic messages in an open system") only permits EDIFACT Syntax 4 as a valid standard in the future. Therefore, the transmission file head segment changes*

Message header – change of directory

- *In order to be able to use new content of the UN/CEFACT Directory, the current version of the message was created on the basis of Directory 20B. Therefore, the message header segment changes*

The following example shows the change

VDA 4987 Despatch Advice (Guideline Version VW 3.3)   old
Transmission file head information (envelope transmission file)
UNB+UNOC:3+O001234567OXYZ01+O0013000001VW   KOI+220301:1340+16393'
Message header (envelope message) up to Version
UNH+9+DESADV:D:07A:UN:GAVF24

VDA 4987 Despatch Advice (Guideline Version VW 4.0) new
Transmission file head information (envelope transmission file)
UNB+UNOC:X+O001234567OXYZ01+O0013000001VW   KOI+20220301:1340+16393'
Message header (envelope message) starting with Version
UNH+1234+DESADV: D:20B:UN:GAVF30

VDA 4987 Despatch Advice - Material

Harmonization with the industry standard→ Place if discharge/internal destination

In the **old version** of the guideline:

1. The **VW place of delivery in segment LOC+7** was transmitted at **header level** of the message and corresponds to the **VDA place of discharge.**
2.
3. The **VW place of discharge in segment LOC+11** was transmitted at **item level** of the message and corresponds to the **VDA place of internal destination**.

In the **new version** of the guideline, the message structure is transferred to the **VDA industry standard**:

1. As **VW place of delivery** corresponds to the **VDA place of discharge** and is transmitted in segment **LOC+11 at header level**

2. As the **VW place of discharge** corresponds to the **VDA place of internal destination** and is transmitted in segment **LOC+7 at item level**

VDA 4987 Despatch Advice (Guideline Version VW 3.3) **old**				
Transmission file head information (envelope transmission file)				
UNB+UNOC:**3**+O001234567OXYZ01+O0013000001VW KOI+220301:1340+16393'				
Message header (envelope message) up to Version				
UNH+9+DESADV:**D:07A:UN:GAVF24 (up to this version))**				
Message content				
Segment-Group	Content level	Segment...	e. g. value	Description VW
SG2	Head	LOC+7	54S	Place of Delivery
SG20	Item	LOC+11	P0105	Place of Discharge
SG20	Item	LOC+11	P0107	Place of Discharge

VDA 4987 Despatch Advice (Guideline Version VW 4.0) **new**				
Transmission file head information (envelope transmission file)				
UNB+UNOC:**X**+O001234567OXYZ01+O0013000001VW KOI+**20**220301:1340+16393'				
Message header (envelope message) starting with Version				
UNH+9+DESADV:**D:20B:UN:GAVF30 (starting with version)**				
Message content				
Segment-Group	Content level	Segment...	e. g. value	Description VDA
SG2	Head	LOC+11	54S	Place of discharge
SG22	Item	LOC+7	P0105	Internal destination
SG22	Item	LOC+7	P0107	Internal destination

VDA 4987 Despatch Advice - Material

New information about movement type

According to the old version of the Guideline, the data of the forwarder already had to transmitted in the segment NAD+FW for European transports for shipments with the Incoterms "EXW" (ex works) and "FCA" (free carrier).

In the new version of the Guideline, **a new segment TMD+** has been included in segment group 6 to transmit the movement type. This information must now also be transmitted in order to make the consignment data available digitally to the logistics service providers involved in the transport.

Please use:

1.   For ordering the area freight forwarder:
▪   X05 Distribution by area contract freight forwarder

2.   For contracting direct load forwarders:
▪   X01 Full Truck Load - with separate tender

VDA 4987 Despatch Advice (Guideline Version VW 4.0) **new**

Transmission file head information (envelope transmission file)				
UNB+UNOC:**X**+O001234567OXYZ01+O0013000001VW KOI+**20**220301:1340+16393'				
Message header (envelope message) starting with Version				
UNH+1234+DESADV: **D:20B:UN:GAVF30**				
Message content				
Segment-Group	Content level	Segment…	e. g. value	Description VDA
SG2	Head	LOC+11	54S	Place of discharge
SG6	**Head**	**TMD+**	**X01**	**Movement Type**
SG22	Item	LOC+7	P0105	int. Place of destination
SG22	Item	LOC+7	P0107	int. Place of destination

VDA 4987 Despatch Advice - Material

Transport order Reference

Already requested with the previous version of the guideline but often "forgotten", transmission of the transport order reference in the segment RFF+TIN

1. If **VDA 4933 T1** transport order message was created by the partner the transport order reference is to be taken from segment **BGM** data element **1004** document identifier from the **original transport order message**.

2. If the partner uses the **web portal solution** of VW or forwarder for transport notification the transport order number is created by the portal and **must be taken over** in this message.

This information is important to connect notification of planned shipment and despatched shipment and to support shipment tracking !

VDA 4987 Despatch Advice (Guideline Version VW 4.0) **new**				
Transmission file head information (envelope transmission file)				
UNB+UNOC:**X**+O001234567OXYZ01+O0013000001VW KOI+**20**220301:1340+16393'				
Message header (envelope message) starting with Version				
UNH+1234+DESADV: **D:20B:UN:GAVF30**				
Message Content				
Segment-Group	Level	VDA Segment…	e. g. value	Description
SG1	Head	RFF+TIN	12345678	Transport order reference

Tools for the changeover

1. **The complete version of the current guidelines can be found on the ONE Group Business Platform:**
Electronic Data Interchange

2. **You can find a self-service for the validation of your messages at Self Service Validation**

3. **Virtual File Name and transmission parameters do not change!**

4. **In addition, you have the option of sending the message with a test indicator for a productive test.**

FAQ Delivery Coll off

Will there be a new version of the VDA 4984 call off?

➔ **No, no plans to change so far!**

It must be ensured that the use of the segments LOC+7 and LOC+11, which deviates from the industry standard, is taken into account when processing the currently valid version of VDA 4984 of the Volkswagen Group (with the exception of Porsche) in the target system!

VDA 4984 Delivery Call Off (Guideline Version VDA 2.1 VW 1.8)				
Transmission file head information (envelope transmission file)				
UNB+UNOC:**3**+O001234567OXYZ01+O0013000001VW KOI+220301:1340+16393'				
Message header (envelope message) up to Version				
UNH+9+DELFOR:**D:04A:UN:GAVB11**				
Message content				
Segment-Group	Content level	Segment...	e. g. value	Description VW
SG6	Kopf	LOC+7	54S	Place of discharge
SG6	Kopf	LOC+11	P0105	Internal destination

FAQ: Are there changes in the documents?

VDA 4939 Shipment document ➔ No changes in the document!

- If you create the shipment document with Volkswagen TSB Generator Software from VDA 4987 Despatch advice ➔ **Use the current version of TSB Generator** to automatically create the correct document!
- If you create the shipment document in the Volkswagen portal solutions WEBSCM or Discovery, nothing changes.

Aus der **alten Version** der Nachricht

Aus der **neuen Version** der Nachricht

VDA 4939 Shipment document

If Source VDA4987 old			➔Document does not change	
	Segment Group	Quelle	Beispielwert	Fachliche Bezeichnung
Master	SG2	LOC+7	54S	Place of discharge
Item	SG20	LOC+11	P0105	Warehouse
Item	SG20	LOC+11	P0107	Warehouse

VDA 4939 Shipment document

If Source VDA4987 new		Segment	➔Document does not change	
Segment-Group	Segment Group		e. g. value	Description VDA
Masterblatt	SG2	LOC+11	54S	Place of discharge
Positionsblatt	SG20	LOC+7	P0105	Internal destination
Positionsblatt	SG20	LOC+7	P0107	Internal destination

FAQ: Gibt es Änderungen an den Dokumenten?

VDA 4994 Global Transport Label (GTL) ➔ Keine Änderungen am Dokument!

- Wenn Sie das GTL mit Volkswagen TSB Generator aus der VDA 4987 Lieferavis erstellen ➔ **Nutzen Sie die aktuelle Version des TSB Generators**, um automatisch das richtige Dokument zu erstellen!
- Wenn Sie das GTL in den Volkswagen Portallösungen WEBSCM oder Discovery erstellen ändert sich nichts!

Aus der **alten Version** der Nachricht

Aus der **neuen Version** der Nachricht

VDA 4994 Global Transport Label

Wenn Quelle 4987 old		➔Document does not change	
Segment-Gruppe	Quelle 4987	Beispielwert	Fachliche Bezeichnung
SG2	LOC+7	H54	Abladestelle
SG20	LOC+11	101K4	Lager

VDA 4994 Global Transport Label

Wenn Quelle 4987 neu		➔ Dokument ändert sich nicht	
Segment-Gruppe	Segment	Beispielwert	Fachliche Bezeichnung
SG2	LOC+11	H54	Abladestelle
SG22	LOC+7	1ABCD	Lager

Thank You for your attention!