VOLKSWAGEN

AKTIENGESELLSCHAFT

Volkswagen VDA 4921
Anlieferungsdaten - Delivery data
Message Implementation Guideline

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1 Preface

The VDA 4921 contains delivery data regarding the transportation of goods to the customer/goods recipient by the regional freight forwarder. This delivery data is based on the ASN (VDA 4913 or DESADV), which the supplier sends directly to the customer. The transport information is used to simplify the process of recording the receipt of a freight carrier's full cargo.

At VOLKSWAGEN, the VDA 4921 is also used to aid the tracking of material/transport flows for the following processes:

1. KCC (Group Consolidation Centre)/cross dock

2. AMES-T (Advanced Mobility Engineering and Services for Transportation) and

3. Container yard (special process at VW Commercial Vehicles, Hannover).

For this reason, the VDA 4921 used at Volkswagen AG differs from that recommended by the VDA in the following respects:

- ✓ Record type 751 has been supplemented by item 08, process identifier for the KCC and AMES-T process.

- ✓ Record type 752 has been supplemented by item 11. In this item, different transport phases are transmitted in encoded form.

- ✓ Additionally, internal VW code lists are used in a number of cases. These code lists are documented in the guide.

The various processes are depicted in the following diagram (with the exception of the container yard process).
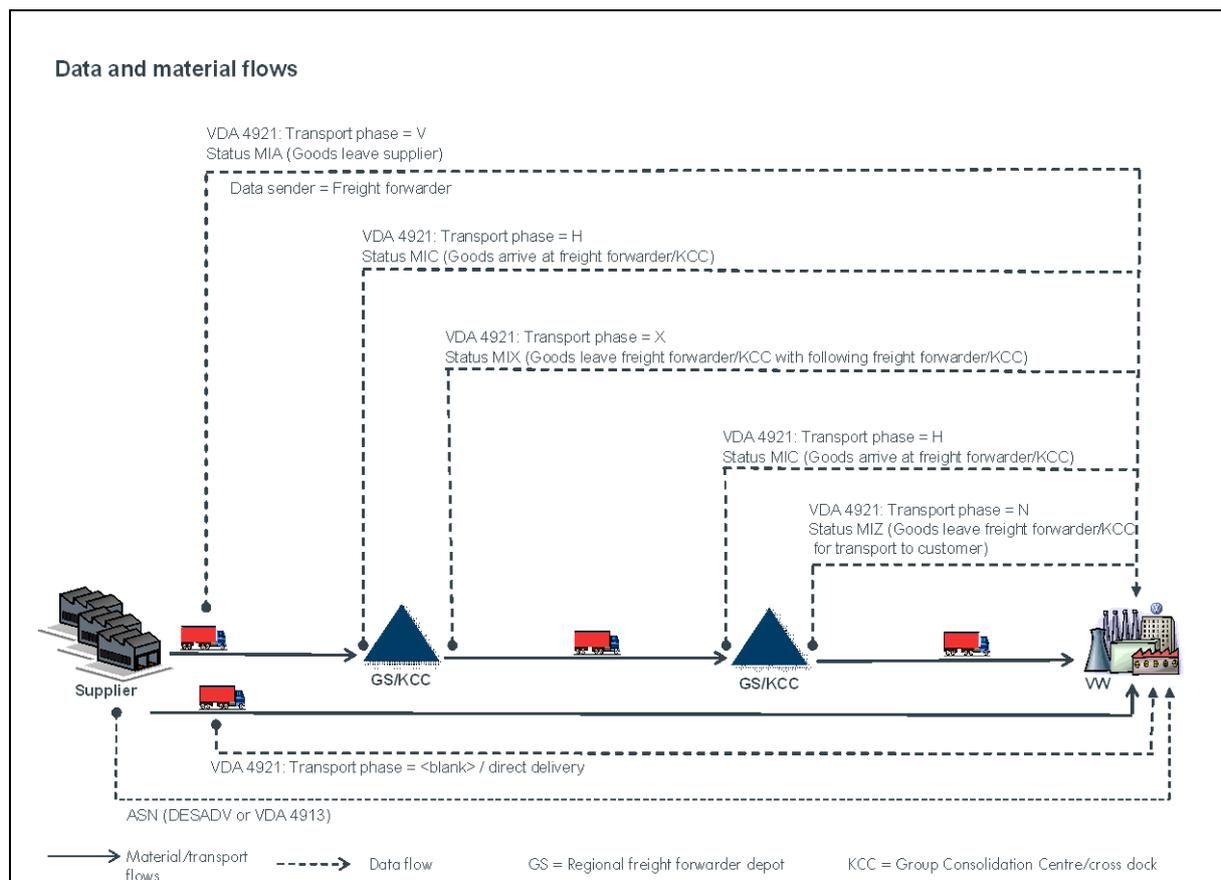
Figure 1: VDA 4921 process overview

For the purpose of tracking material and transport flows, the regional freight forwarder (GS) or KCC operator sends a VDA 4921 to VOLKSWAGEN for each transport phase (collection of material by haulage firm "V" and transport to KCC "H", handling in KCC, transport of material to factory "N"). When the shipment arrives at the GS/KCC, the GS/KCC operator sends VOLKSWAGEN a VDA 4921 with the status MIC (H) regarding the shipment received (see figure 1). After a new shipment has been assembled for a recipient, the GS/KCC operator creates a second VDA 4921 with the status MIX (X) or MIZ (N) depending on whether the recipient is a GS/KCC operator or VOLKSWAGEN.

 Sending the status MIA (V/goods leave supplier) is optional.

A new bordereau number must be sent when switching from one transport phase to another. The GS or KCC operator derives the ASN information (e.g. SLB, supplier number) from the delivery papers or the ASN which VOLKSWAGEN can provide to the GS or KCC operator.

If the item "transport phase" is not filled in, it will be assumed that this is a transport to the customer.

Additionally in the KCC process, the number of the freight forwarder carrying the shipment is always entered as the data recipient. This allows the information regarding the freight forwarder to be entered into the corresponding logistical systems at VOLKSWAGEN.

In the container yard process, the receipt of material at the container yard is recorded using the VDA 4921 (see figure 2).
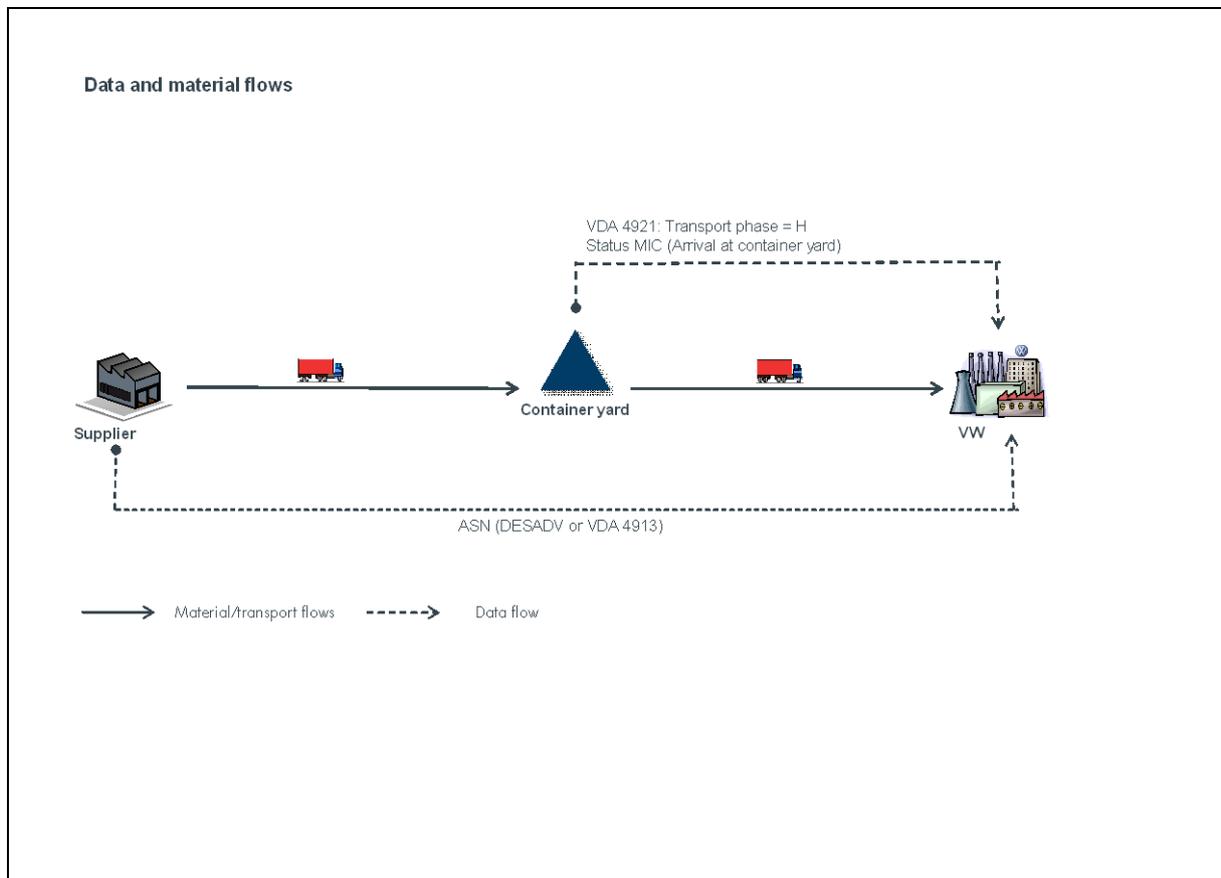
Figure 2: VDA 4921 process overview: Container yard

1 Change list

Date	Version	Description	Record type_line number
2015-10-16	1.1	Rule regarding identical plant numbers in a Bordereau added.	754_13

2 Message Type

Tag	No	St	MaxOcc	Name
751	1	M	1	Header record
SG1		M	9999999	
752	2	M	1	Identification of transport vehicle
753	3	M	1	Transport information data
SG2		M	9999999	
754	4	M	1	Additional forwarding agent data
755	5	M	9999999	Delivery note index
759	6	M	1	Trailer record

This message structure described. A documented Segment/Segmentgroup shouldn't have to be assigned always.
In contrast to the EDIFACT- Message layout chart the different Segment-version will be displayed explicitly.

3 Branching Diagram
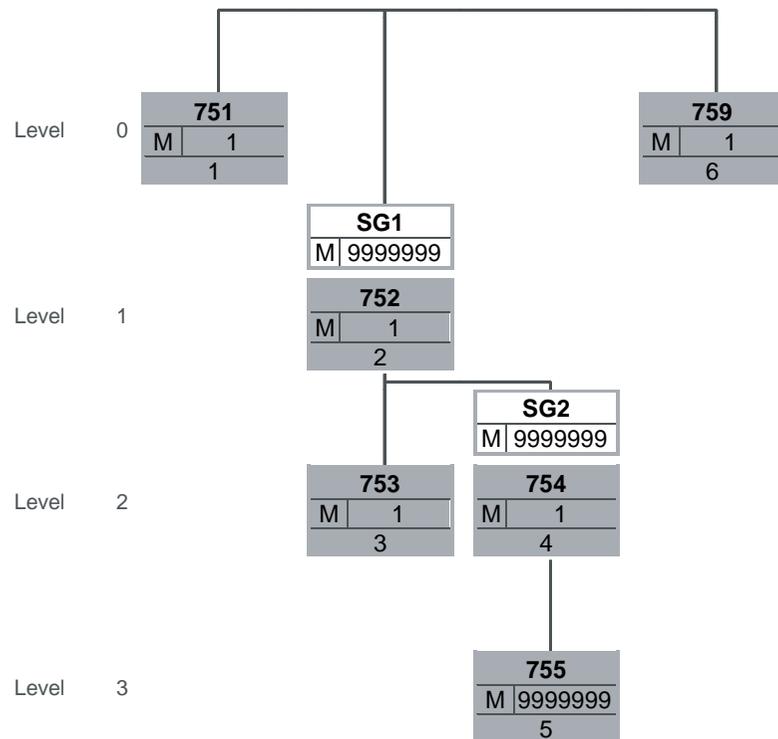
```
Level   0    ┌─────────────────────────────┬─────────────────────────────┐
             │     751     │                │     759     │
             │  M  │   1   │                │  M  │   1   │
             │      1      │                │      6      │

                           │
                     ┌───────────┐
                     │    SG1    │
                     │ M 9999999 │

Level   1            │    752    │
                     │  M  │  1  │
                     │     2     │

                           ┌───────────┐
                           │    SG2    │
                           │ M 9999999 │

Level   2     │    753    │ │    754    │
              │  M  │  1  │ │  M  │  1  │
              │     3     │ │     4     │

                                │
Level   3                  │    755    │
                           │ M 9999999 │
                           │     5     │
```

This message structure described. A documented Segment/Segmentgroup shouldn't have to be assigned always.
In contrast to the EDIFACT- Message layout chart the different Segment-version will be displayed explicitly.

4 Segment Details

No	Tag	St	MaxOcc	Level	Name
1	**751**	M	1	0	**Header record**

			Standard			Implementation	
Tag	Name	from to	St	Format	St	Usage / Remark	
751_01	Record type	1-3	M	N3	M	Constant "751"	
751_02	Version number	4-5	M	N2	M	**01 Version 01**	
751_03	Data receiver ID/ customer ID	6-14	M	A9	M	Customer ID, assigned by forwarding agent to VOLKSWAGEN. KCC- process: Supplier ID (forwarding agent ID) assigned by VOLKSWAGEN, who does the transportation.	
751_04	Data sender ID/ supplier ID	15-23	M	A9	M	Supplier ID (forwarding agent) assigned by VOLKSWAGEN. KCC-Process: Supplier ID from KCC assigned by VOLKSWAGEN.	
751_05	Old transmission no.	24-28	M	N5	M		
751_06	New transmission no.	29-33	M	N5	M		
751_07	Transmission date	34-39	M	N6	M	Format: YYMMDD	
751_08	Process identification	40	K	A1	D	Mandatory for KCC and AMES-T Process, otherwise empty. **K KCC** **A AMES-T**	
751_09	Empty	41-128	K	A88	K	Filled in with blanks.	

Remark:

Example:

75101AB1235VW BC34567VW0000000001120801K

No	Tag	St	MaxOcc	Level	Name
	SG1	M	9999999	1	**Segment group 1**
2	**752**	M	1	1	**Identification of transport vehicle**

			Standard		Implementation	
Tag	Name	from to	St	Format	St	Usage / Remark
752_01	Record type	1-3	M	N3	M	Constant "752"
752_02	Version number	4-5	M	N2	M	**01 Version 01** Constant "01"
752_03	Key to means of transport	6-7	M	N2	M	Different from VDA standard, use the following code list: **21 Normal truck with/without trailer** **22 Semi trailer** **23 High capacity truck with/without trailer** **24 High capacity semi trailer** **25 Heavy jumbo truck** **26 Car** **27 Transporter** **28 Transporter with trailer** **29 Swap body**
752_04	Means of transport number	8-32	M	A25	M	Position 01 – 12: truck number plate, traktor number plate Position 14 – 25: client code, trailer code Containeryard process: from Position 14 container ID
752_05	Bordereau ID	33-49	M	A17	M	Consolidated consignments ID (Bordereau ID) assigned by the freight forwarder. The Bordereau is a collection of single shipments for identical receivers created by the forwarding agent.
752_06	Bordereau date	50-55	M	N6	M	Format: YYMMDD
752_07	Bordereau correction key	56	M	N1	M	Correction key reference relays to shipment- and delivery note information of the original Bordereau ID. Correction key does not relay to transportation information (record type 753). By using the "L" code all information of the Bordereau ID in record type 752_05 will be deleted. Changes will be deleted and replaced by a new message with corrected data. Record type 753_8 = Blank **1 1. Änderung** **6 6. Änderung** **7 7. Änderung** **8 8. Änderung** **9 9. Änderung**
752_08	Special transport number	57-64	K	A8	K	Reference ID assigned by the customer for the identifikation of a special transport. Left aligned entry.
752_09	Shipment volume	65-70	K	N6	K	Declaration in cubic metre. Right aligned entry with preceding zeros.
752_10	Shipment loading metre	71-82	K	N12	K	Declaration in metre. Right aligned entry with preceding zeros, no decimal.
752_11	Key to transport section	83	K	A1	D	Record type 752_11 is an additional position from VOLKSWAGEN. It is not used in VDA 4921

St = Status

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Version: 1.1   Variant:
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		Standard			Implementation	
Tag	Name	from to	St	Format	St	Usage / Remark
						standard. AMES-T und KCC: Mandotary Containeryard: always "H" For regional freight forwarder (not KCC or AMES-T) the transport phase < BLANK> can be sended furthermore. **V Outbound supllier (Status MIA)** **H Inbound KCC (Status MIC)** **X Outbound KCC, if another KCC follows (Status MIX)** **N Outbound KCC (Status MIA)**
752_12	Empty	84-128	K	A45	K	Filled with blanks.

Remark:

Deliveries via KCC: record type 752 must be transmitted one time (Process Identification record type 751/08 = K)

Example:

7520121RP-LT204   28028702090025755120723 1231231200007000000000015N

No	Tag	St	MaxOcc	Level	Name
	SG1	M	9999999	1	**Segment group 1**
3	**753**	M	1	2	**Transport information data**

				Standard		Implementation	
Tag	Name	from to		St	Format	St	Usage / Remark
753_01	Record type	1-3		M	N3	M	Constant "753"
753_02	Version number	4-5		M	N2	M	**01 Version 01** Constant "01"
753_03	Means of transport location date	6-11		K	N6	D	Date at which the means of transport is found at the indicated location (Record type 753_05). Format: YYMMDD AMES-T and KCC: Mandatory Containeryard: Like Record Type 752_06, mandatory
753_04	Means of transport location time	12-15		K	N4	D	Time at wich the means of transport is found at the indicated location (Record Type 753_05). Format: HHMM AMES-T and KCC: Mandatory Containeryard: Time of arrival of the container in containeryard, mandatory.
753_05	Means of transport location	16-50		K	A35	D	Location at which the means of transport is found. Left aligned entry. AMES-T, KCC, Cointaineryard: Mandatory
753_06	Expected date of arrival	51-56		K	N6	D	Expected date of arrival related to the next unloading point (local time of unloading point) (Record Type 754_11); Format: YYMMDD AMES-T and KCC: Mandatory
753_07	Expected time of arrival	57-60		K	N4	D	Expected time of arrival related to the next unloading point (local time of unloading point) (Record Type 754_11); Format: YYMMDD AMES-T and KCC: Mandatory
753_08	Information correction key	61		M	N1	M	It is used for correction of transport information (record type 753). Bordereau ID and Bordereau content are not changed. Bordereau correction ID (record type 752_7) = blank **1 1. Änderung** **2 2. Änderung** **3 3. Änderung** **4 4. Änderung** **5 5. Änderung**
753_09	Text	62-128		K	A67	K	

Remark:

Example:

753011207239999KCC EINGANG BRATISLAVA   1210151607 XXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

No	Tag	St	MaxOcc	Level	Name
	SG1	M	9999999	1	**Segment group 1**
	SG2	M	9999999	2	**Segment group 2**
4	**754**	M	1	2	**Additional forwarding agent data**

		Standard			**Implementation**	
Tag	Name	from to	St	Format	St	Usage / Remark
754_01	Record type	1-3	M	N3	M	Constant "754"
754_02	Version number	4-5	M	N2	M	**01 Version 01** Constant "01"
754_03	Supplier ID	6-14	M	A9	M	Supplier ID is to be taken from shipping documents, VDA 4913, record type 711_04 or DESADV SG2, LOC+9, C 517, DE 3225. If the VDA4913 is created by the freight forwarder the supplier ID is to be taken from record type 713_16.
754_04	Shipment number	15-22	M	N8	M	Shipment number is to be taken from shipping documents, VDA4913, record type 712_03 oder DESADV BGM+351, C 104, DE 1004
754_05	Freight forwarder order ID	23-39	K	A17	K	Order ID assigend by freight forwarder.
754_06	Freight forwarder registration date	40-45	K	N6	K	Assigned by freight forwarder. Format: YYMMDD
754_07	Shipment key	46	K	A1	K	**R Restlieferung** **T Teillieferung** **Original Shipment**
754_08	Shipment weight gross	47-53	K	N7	K	Information of the way bill are to be taken.
754_09	Shipment weight net	54-60	K	N7	K	Weight of goods including packaging without loading aids and containers of the carrier. Right aligned entry with preceding zeros, no decimals. Unit of quantity: kg
754_10	Number of handling units	61-64	K	N4	K	Number of handling units which belong to a supplier's shipment. Data have to be taken from shipping documents or VDA 4913 record type 712_12. They may be changed manually by the forwarding agent.
754_11	Unloading point	65-69	K	A5	D	Unloading point, where the goods should be unloading. Assigned by VOLKSWAGEN. KCC and Containeryard: Mandatory
754_12	Supplier plant	70-72	M	A3	M	not used
754_13	Customer plant	73-75	K	A3	M	Plant code is to be taken from shipping documents, VDA 4913 record type 713_11 or DESADV NAD+CN, C 082, DE 3039 Within one VDA 4921 only identical plant numbers for a Bordereau number may be transmitted. This applies also for different plant numbers which belong geographically to the same location. For each plant number a separate VDA 4921 is to be sent

St = Status

		Standard			Implementation	
Tag	Name	from to	St	Format	St	Usage / Remark
						Examples Target = Plant 11, Plant 11, Plant 11 Forbidden: Plant 11 (Series), Plant 07 (PU Trim), Plant QC (CKD Wolfsburg) = all location Wolfsburg
754_14	Empty	76-128	K	A53	K	Filled with blanks.

Remark:

Example:

7540115383/0 0041336180445095   120723 000190500019040003101011111 11

No	Tag	St	MaxOcc	Level	Name
	SG1	M	9999999	1	**Segment group 1**
	SG2	M	9999999	2	**Segment group 2**
5	**755**	M	9999999	3	**Delivery note index**

				Standard	**Implementation**	
Tag	Name	from to	St	Format	St	Usage / Remark
755_01	Record type	1-3	M	N3	M	Constant "755"
755_02	Version number	4-5	M	N2	M	**01 Version 01** Constant "01"
755_04	Delivery note number	6-13	M	A8	M	Delivery note number assigned by supplier. Right aligned entry with precedings zeros.
755_05	Delivery note number	14-21	K	A8	K	See record type 755_04
755_06	Delivery note number	22-29	K	A8	K	See record type 755_04
755_07	Delivery note number	30-37	K	A8	K	See record type 755_04
755_08	Delivery note number	38-45	K	A8	K	See record type 755_04
755_09	Delivery note number	46-53	K	A8	K	See record type 755_04
755_10	Delivery note number	54-61	K	A8	K	See record type 755_04
755_11	Delivery note number	62-69	K	A8	K	See record type 755_04
755_12	Delivery note number	70-77	K	A8	K	See record type 755_04
755_13	Delivery note number	78-85	K	A8	K	See record type 755_04
755_14	Delivery note number	86-93	K	A8	K	See record type 755_04
755_15	Delivery note number	94-101	K	A8	K	See record type 755_04
755_16	Delivery note number	102-109	K	A8	K	See record type 755/04
755_17	Delivery note number	110-117	K	A8	K	See record type 755_04
755_18	Delivery note number	118-125	K	A8	K	See record type 755/04
755_19	Empty	126-128	K	A3	K	Filled with blanks.

Remark:

Example:

7550101705016037050160670501607705016870505733

No	Tag	St	MaxOcc	Level	Name
6	**759**	M	1	0	**Trailer record**

					Standard	**Implementation**	
Tag	Name	from to	St	Format		St	Usage / Remark
759_01	Record type	1-3	M	N3		M	
759_02	Version number	4-5	M	N2		M	**01 Version 01**
759_03	Record type counter 751	6-12	M	N7		M	
759_04	Record type counter 752	13-19	M	N7		M	
759_05	Record type counter 753	20-26	M	N7		M	
759_06	Record type counter 754	27-33	M	N7		M	
759_07	Record type counter 755	34-40	M	N7		M	
759_08	Record type counter 759	41-47	M	N7		M	
759_09	Empty	48-128	K	A81		K	Filled in with blanks.

Remark:

Example:

75901000000100000010000001000000100000010000001