

## Electronic Data Interchange for Packaging-(Container-)Data at the Volkswagen Behältermanagement.

This recommendation controls the automatical data exchange of:

- Packaging statements of accounts between Volkswagen Behältermanagement and suppliers
- Packaging movements between Volkswagen Behältermanagement and supplier

### **Note:**

In case of queries in processing this message and in data element details please contact:

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## 1. Utilisation of packaging / container data VDA 4927

Volkswagen and Audi transfer the packaging data according to VDA rcommandation 4927, edition 3 of February 1997.

The VDA 4927 is transmitted by the Volkswagen Behältermanagement and suppliers in following forms of application:

- monthly from Volkswagen Behältermanagement as a complete statement of packaging accounts first with stock figures at close of month and then with all movements (incoming: dispatch note data, outgoing: empty packaging shipping note / way bill) since the preceding statement of account, sorted to booking date of movements,
- event driven from Volkswagen Behältermanagement, when empty containers are shipped to suppliers (empty container advice).

The IT center Wolfsburg (R11) transmits packaging data for plants belonging to branches supported by Volkswagen Behältermanagement (s. plant codes).

The packaging messages for statements of packing accounts and the packing movement information are processed for each supplier plant and each packaging stock key and are sent with different dataset names.

The dataset names are configurated as follows:

Statements of packaging accounts

DUE.R11 *sid*.BMKTOa (Statements of packaging account for stock code 11),

Movement notice / movement advice for shipments of empty containers

DUE.R11 *sid*.BEWEG (Packaging movement information for stock code 11),

Within the dataset name "*sid*" is the variable for the station id of the supplier, "a" represents the index for the plant the account is built for.

If requested by supplier the differentiated datasets can be sent directed for each supllier plant. A destination address can be used for each supplier plant an EDI message is sent to.

The messages are sent to one central EDI point in differentiated datasets separated per supplier index and packaging account key. The messages can be transferred directly without pre-processing, if it is necessary e.g. printing options.

## 2. Statement of account

### 2.1. Message Structure

**Record types and record type sequence**  
**in the statement of packaging account** from Volkswagen Behältermanagement > supplier  
 and in the **Packing movement notice (movement advice)**  
 from Volkswagen Behältermanagement > supplier

Rec.- Type	Ver- sion	M/ K	Rep.	Data Content
721	01	M	1	Preliminary packaging data transmission record (1x per transmission) first record at transmission
722	01	M	1	Supplier plant - customer plant relation data (1 x per relation, n x per transmission) Suppliers stock location - Volkswagen Behältermanagement stock location to follow on 721 can follow on 724, 725
723	01	M	1	Packaging data (1 x per packaging type and relation) to follow on 722, can follow on 723,724, 725
724	03	K	1	Process (booking) data (1 x per process, n x per packaging type) (SA 724 omitted, if no movements have been processed). record type SA 724 is mandatory in the movement notice, can follow on 723, 724, 725
725	01	K	1	Text (once per process) can follow on 724
729	01	M	1	Subsequent record (1 x per transmission) can follow on 724, 725

Following abbreviations are used in this guide.  
 M = Mandatory (Must)      K = Conditional (Can)  
 A = Alphanumeric          N = Numeric  
 L = Left justified          R = Right justified

## 2.2. Structural description of record type 721

Preliminary record data (1 x per transmission), character, must record

Pos	Data element	K M	Lgth Byte	A N	L R	From – to	Use of data elements at Volkswagen- Behältermanagement																					
01	Record type	M	3	N		1 – 3	Constant "721"																					
02	Version Number	M	2	N		4 – 5	Actual "01"																					
03	Data recipient number	M	9	A	L	6 – 14	Supplier number, 9-digit (n9). 8 digits supplier no. + 1 digit index.																					
04	Data transmitter number	M	9	A	L	15 – 23	(Customer-)ID number which is agreed with the data Volkswagen Behältermanagement is send The ID is not oriented to a single plant. If an ID is not available at the supplier master data, the data element is filled with "VW/Audi".																					
05	Old transmission number	M	5	N	R	24 – 28	For a description, see new transmission number.																					
06	New transmission number	M	5	N	R	29 – 33	The assignment of a transmission number (new) for each EDI generation run is ascending from 00001 to 99999 and thereafter starts again with 00001. The transmission number for statements of accounts and movement data is extracted only from one number range. Because the data transmitter states the previous processing No. additional to the new transmission number the recipient is able to check the completeness of data interchange per application. Therefore a complete ascending number range is not necessary. Flush-right entry with preceding zeros.  Examples of entries in the two transmission numbers:  <table style="margin-left: 20px; border: none;"> <tr> <td>Process</td> <td>Old number</td> <td>New number</td> </tr> <tr> <td>Start:</td> <td>00000</td> <td>00001</td> </tr> <tr> <td>or:</td> <td>00000</td> <td>00017</td> </tr> <tr> <td>Routine:</td> <td>00019</td> <td>00020</td> </tr> <tr> <td>or:</td> <td>88051</td> <td>88061</td> </tr> <tr> <td>Overflow:</td> <td>99999</td> <td>00001</td> </tr> <tr> <td>or:</td> <td>89361</td> <td>00011</td> </tr> </table>	Process	Old number	New number	Start:	00000	00001	or:	00000	00017	Routine:	00019	00020	or:	88051	88061	Overflow:	99999	00001	or:	89361	00011
Process	Old number	New number																										
Start:	00000	00001																										
or:	00000	00017																										
Routine:	00019	00020																										
or:	88051	88061																										
Overflow:	99999	00001																										
or:	89361	00011																										
07	Transmission date	M	6	N		34 – 39	Form: YYMMDD																					
08	Transmission purpose code	M	2	N		40 – 41	"01" is sent for statement of packaging accounts "03" is sent for packaging movement data (Advice empty container dispatch.																					
09	Text1	K	40	A	L	42 – 81	Not used at Volkswagen Behältermanagement.																					
10	Text2	K	40	A		82 - 121	Not used at Volkswagen Behältermanagement.																					
11	Blank	M	7	A		122 - 128	Filled with BLANKS																					

## 2.3. Structural description of record type 722

Supplier stock location - customer stock location relation data (1 x for each relation), character, must record

Pos	Data element	K M	Lgth Byte	A N	L R	From – to	Use of data elements at Volkswagen- Behältermanagement
01	Record type	M	3	N		1 – 3	Constant "722"
02	Version Number	M	2	N		4 – 5	Actual "01"
03	Supplier number	M	9	A	L	6 - 14	The supplier No. can be sent with <b>length from 5 to 9 digits.</b>
04	Supplier location code	K	5	A	L	15 - 19	Volkswagen Behältermanagement handles the container stock figures for each supplier plant with a 1-digit plant index / supplier index. Is entered left justified.
05	Customer number	M	9	A	L	20 - 28	The 2-digit packaging stock key for the packaging control (e.g. "11" for the VW-plants) is sent as a customer code (see list in the attachment). (Register see attachment)
06	Customer location code	K	5	A	L	29 - 33	The container accounts for packaging control (e.g. "11" for the VW-plants, see pos. 5) are kept for each packaging stock key at the Volkswagen Behältermanagement. The customer location code is currently not transmitted.
07	Text1	K	40	A	L	34 - 73	Here the Volkswagen Behältermanagement enters the contact persons of the suppliers.
08	Text2	K	31	A		74 – 104	Free Text 2
08a	Text codiert	K	9	A		105 - 113	External supplier-no.
09	Blank	M	15	A		113 - 128	Filled with BLANKS

## 2.4. Structural description of record type 723

Packaging data (1 x per packaging type), character, must record

Pos	Data element	K M	Lgth Byte	A N	L R	From – to	Use of data elements at Volkswagen- Behältermanagement
01	Record type	M	3	N		1 – 3	Constant "723"
02	Version Number	M	2	N		4 – 5	Actual "01"
03	Part number-Customer	M	22	A	L	6 – 27	Packaging Id used in Volkswagen container management. Container codes are specified as shown in the following examples: VW0001                   not SK-V-7143 VW0012                   not 70-A-110671 007255                   not 7-v-7255 010028                   not 70-A-010028 0110302                  not 7-V-11030/2 110656                   not 70-A-110656 FA0011                   not FA-11 . . . . .
04	Packaging group	K	9	A	L	28 - 36	Not used at Volkswagen Behältermanagement.
05	Part number-supplier	K	22	A	L	37 – 58	Not used at Volkswagen Behältermanagement.
06	Old packaging stock quantity	K*	13	N	R	59 – 71	Statement of account: Final stock of the last statement of account (carryover). Stock data (Pos. 6 – 11) are sent only in the statement of account, <b>is not transmitted in packaging movement message.</b>
07	Old stock prefix	K*	1	A		72	Algebraic sign of quantity in Pos. 06, "+" or BLANK = positiv "-" = negativ
08	Old stock booking date	K*	6	N		73 - 78	Statement of account: Date of last account, YYMMDD <b>is not transmitted in packaging movement message.</b>
09	New packaging stock quantity	K*	13	N	R	79 – 91	Statement of account: Final stock of the actual statement. Stock data (Pos. 6 – 11) are sent only at the statements of accounts, <b>is transmitted in packing movement data with zeroes.</b>
10	New stock prefix	K*	1	A		92	Algebraic sign of quantity in Pos. 09, "+" or BLANK = positiv "-" = negativ
11	New stock booking date	K*	6	N		93 – 98	Statement of account: Date of actual stock information, YYMMDD <b>is not transmitted in packing movement message.</b>
12	Process data present flag	M	1	A		99	Indicator, if data are existing for processes. Signs: "J" or "N", if "N:" stock new = stock old
13	Debit value quantity	K	13	N	R	100 - 112	Not used at Volkswagen Behältermanagement.
14	Debit value days	K	3	N	R	113 - 115	Not used at Volkswagen Behältermanagement.
15	Blank	M	13	A		116 - 128	Filled with BLANKS

\* **Statement of account (Transmission purpose 01): Items 6...10 are mandatory.**

## 2.5. Structural description of record type 724

Process data (1 x per process), character, can record

Pos	Data element	K M	Lgth Byte	A N	L R	From – to	Use of dataelements in Volkswagen- Behältermanagement
01	Record type	M	3	N		1 – 3	Constant "724"
02	Version Number	M	2	N		4 – 5	Actual "01"
03	Process code	M	2	<del>N</del> <b>A</b>		6 – 7	Following process codes are used at the statement of account .  <u>Discharging</u> 10 Material receipt at Volkswagen Behältermanagement (delivery note, delivery note EDI) <b>20</b> <span style="float: right;"><i>PV-receipt</i></span> <b>22</b> <span style="float: right;"><i>Material-back dispatch /delivery note</i></span> 30 Hand in cross traffic by supplier 50 Correction 54 Cancellation 70 Stocktaking alignment <b>NE</b> <span style="float: right;"><i>Neutral booking NeG</i></span> <b>NK</b> <span style="float: right;"><i>Purchase</i></span> <b>NW</b> <span style="float: right;"><i>Purchase value substitution</i></span> <b>VR</b> <span style="float: right;"><i>Scrapping Receycling</i></span>  <u>Charging</u> <b>11</b> <b>Delivery note</b> 21 PV-receipt 21 Empty container dispatch (Packaging movement message) 23 Material return / delivery note 31 Take over from supplier in cross traffic 51 Correction 55 Cancellation 71 Stocktaking alignment <b>NB</b> <span style="float: right;"><i>Neutral booking NeG</i></span> <b>VS</b> <span style="float: right;"><i>Scrapping</i></span> <b>NR</b> <span style="float: right;"><i>Purchase Receycling</i></span>  At the packing movement message (empty container dispatch) code 21 is used.
04	Label number	M	8	A	R	8 – 15	ID number which assigns the process trigger to this process, e.g. delivery note number, waybill number. The last 6 digits of the delivery note no. which was sent from supplier are processed.
05	Label item No. 1	K	3	N	R	16 - 18	Not used at Volkswagen Behältermanagement, filled with ,000'.
06	Label item No. 2	K	3	N	R	19 - 21	Not used at Volkswagen Behältermanagement, filled with ,000'.
07	Label date	M	6	N		22 – 27	Date of the process trigger, e.g. date of the delivery note. Form: YYMMDD
08	Packaging quantity	M	13	N	R	28 – 40	Quantity of packagings for this process.
09	Packaging quantity prefix	K	1	A		41	Quantity data prefix, "+" or BLANK = positiv ( <u>Charging</u> ) "-" = negativ ( <u>Discharging</u> )
10	Booking date	K	6	N		42 – 47	Not used at Volkswagen Behältermanagement.

11	Transportation partner number	K	14	A	L	48 - 61	Name and/or number of the partner who carries out transportation
12	Reference label number	K	8	A		62 - 69	Not used at Volkswagen Behältermanagement.
13	Reference label item No. 1	K	3	N	R	70 - 72	Not used at Volkswagen Behältermanagement.
14	Reference label item No. 2	K	3	N	R	73 - 75	Not used at Volkswagen Behältermanagement.
15	Reference label date	K	6	N		76 - 81	Not used at Volkswagen Behältermanagement.
16	Reference quantity	K	13	N	R	82 - 94	Not used at Volkswagen Behältermanagement.
17	Reference quantity prefix	K	1	A		95	Not used at Volkswagen Behältermanagement.
18	Reference booking date	K	6	N		96 - 101	Not used at Volkswagen Behältermanagement.
19	Delivery date	K	6	N		102 - 107	Not used at Volkswagen Behältermanagement.
20	Customer plant	K	3	A	L	108 - 110	The customer's plant, in which container reception or sending was processed. At the packaging movement data (discharging) is the plant transmitted, in which full container reception (e.g. 15 for Emden plant) is processed. At the empty packaging advice (charging) is the plant transmitted, the packages are sent from. Note: The 2-digit container account code for packaging control (e.g. "11" for the VW-plants) is listed in VWsBehältermanagement as a customer code. See record type 722, Pos. 5
21	Blank	M	18	A		111 - 128	Filled with BLANKS.

## 2.6. Structural description of record type 725

Text (1 x per process), character, can record  
 This record type is only used if required.

Pos	Data element	K M	Lgth Byte	A N	L R	From – to	Use of data elements at Volkswagen- Behältermanagement
01	Record type	M	3	N		1 – 3	Constant "725"
02	Version Num- ber	M	2	N		4 – 5	Actual "01"
03	Text 1	K/M	40	A	L	6 – 45	Line 1
03a	<i>Text 1 coded</i>	<i>K/M</i>	<i>40</i>	<i>A</i>	<i>L</i>	<i>6 – 39</i>	<i>In packing movement message Article No. / Part-No.</i>
03b	<i>Text 1</i>	<i>K/M</i>	<i>40</i>	<i>A</i>	<i>L</i>	<i>40 – 45</i>	<i>Free text for additional information which is not auto- matically evaluated</i>
04a	<i>Text 2 Code a</i>	<i>K</i>	<i>10</i>	<i>A</i>		<i>46 – 55</i>	<i>Qty of parts flush-right</i>
04b	<i>Text 2</i>	<i>K</i>	<i>30</i>	<i>A</i>		<i>56 – 85</i>	<i>Zeile 2</i>
04c	<i>Text 2 Code c</i>	<i>K</i>	<i>4</i>	<i>A</i>		<i>86 – 89</i>	<i>Warehouse no. / Warehouse group</i>
04d	<i>Text 2 Code d</i>	<i>K</i>	<i>9</i>	<i>A</i>		<i>90 – 98</i>	<i>Supplier code for counter-entry (receiver-supplier code)</i>
05	Text 3	K	27	A		99 – 125	Line 3
06	Empty	M	3	A		126 – 128	Filled with BLANKS

## 2.7. Structural description of record type 729

Subsequent record (1 x per transmission), character, must record

Version 01

Pos	Data element	K M	Lgth Byte	A N	L R	From – to	Use of dataelements in Volkswagen- Behältermanagement
01	Record type	M	3	N		1 – 3	Constant "729"
02	Version Num- ber	M	2	N		4 – 5	Actual "01"
03	Counter SA 721	M	7	N	R	6 – 12	Number of record type 721 records transmitted, flush- right with preceding zeros
04	Counter SA 722	M	7	N	R	13 – 19	Number of record type 722 records transmitted, flush- right with preceding zeros
05	Counter SA 723	M	7	N	R	20 – 26	Number of record type 723 records transmitted, flush- right with preceding zeros
06	Counter SA 724	M	7	N	R	27 – 33	Number of record type 724 records transmitted, flush- right with preceding zeros
07	Counter SA 725	M	7	N	R	34 – 40	Number of record type 725 records transmitted, flush- right with preceding zeros
08	Counter SA 729	M	7	N	R	41 – 47	Number of record type 729 records transmitted, flush- right with preceding zeros
09	Empty	M	81	A		48 – 128	Filled with BLANKS