Automatic Transport Evaluation (MTB)

**Transport data set interface
TDS**

MTB level:	**2**
Version:	1st version (01)
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Volkswagen Transport expects the carrier to send the MTB transport information data, TDS.

General specifications

This guide describes the procedure and data content for the remote data transmission of transport information data, from the carrier to **Volkswagen** Logistics, independently of the VDA recommendation.

The electronic data exchange of transport information, TDS, between the carrier and **Volkswagen** Logistics is a condition for participation in the MTB automatic credit note procedure. The data set type T04 contains the information content of an automated freight letter, with the option of transmitting all the data relevant to the calculations to VW/AUDI. Ideally, all the transportations in one day relating to one relation type should be sent in full in a single file. If this procedure is followed, then the message stating that a complete day's package has been transmitted to MTB by the carrier is the immediate starting point for the evaluation, so that the credit note is created as quickly as possible. All transports (bordereaus) of a day must be send together in <u>one</u> file.

In contrast to the VDA4921 news standard, every set type begins with the keys of the next highest set type, to ensure that the information transmitted is as error-free as possible.

Every set type ends with the standard line-ending indicator, carriage return / linefeed (ASCII characters 13 and 10).

The TDS's are addressed by the carrier, independently of the brand, to the IVZ in Wolfsburg (station ID R11). The file name is

    DJC.*sid*TVV.TDS for transport ranges to VW and AUDI,

where *sid* is the variable for the station ID of the carrier. IVZ Wolfsburg (R11) receives the transport information data for the transport information relating to the MTB calculation.

Set types and set type sequence for the carrier-VWT transport information data

Set type	Version	M/O	Reps.	Data content
T01 (751)	01	M	1	Header set for delivery data (1 per EDT). Must be the first set of an EDT
T02 (752)	01	M	1	Bordereau data (at least 1 per transport vehicle). Must follow T01, can follow T05
T03 (753)	01	M	1	Transport information (at least 1 per transport vehicle). Must follow T02, cannot follow T03, T04, T05 **Currently not processed by MTB.**
T04 (754)	01	M	1	Carrier order data (1 per carrier order). Must follow T03, can follow T05
T05 (755)	01	M	R	Delivery note (at least 1 per carrier order). Must follow T04, can follow T05
T09 (759)	01	M	1	Trailer set, delivery data (1 per EDT). Must follow T05

The specifications described in the following section refer to particulars relating to the type of news. Formats and specifications which apply to several news types are documented in the data catalogue and in the general data descriptions appended to it.

Set type T01, version 01, header set for transport information data from carrier to VWT

Notes on the column headings and the names of the data fields.

These keys are:
- M = Mandatory
- O = Optional
- A = Alphanumeric (fields are left-justified)
- N = Numeric (fields are right-justified, filled out with starting zeros)

Notation for numbers separated by a comma: n,m means: n+m positions, where the last m positions are those after the comma.

Item	Data element	O M	LG. BYT	A/ N	From-to	Description
01	Set type	M	3	N	1-3	Constant 'T01'
02	Version number	M	2	N	4-5	Constant '01'
03	Data recipient number	M	11	A	6-16	The customer number (VWT) agreed upon with VW/AUDI is used. The customer number is not plant-related.
04	Data sender number	M	11	A	17-27	Data dispatch number is agreed upon. Left-justified entry.
05	Carrier number	M	11	A	28-38	VWT carrier number, incl. index of branch. 6-digit carrier number, 1-digit index. Left-justified entry.
05	Transmission number, old	M	5	N	39-43	With the old transmission number the recipient can check the completeness of the EDT data stock. Right-justified, filled out with starting zeros.
06	Transmission number, new	M	5	N	44-48	The data creator allocates a transmission number to each EDT run. The data creator and the recipient save this number until the next transmission. Since the data creator provides the number of the previous EDT run with the new transmission number, the recipient can check the completeness of the EDT data stock. The run or transmission number is assigned in ascending order from 1 to 99999, thereafter beginning with 1 again. Right-justified entry with leading zeros.
07	Transmission date	M	8	N	49-56	In the form: YYYYMMDD
08	Daily package complete message	O	-	-	57-136	This table can contain up to 10 daily packages, which have been reported as completely transmitted by the carrier. Date in the format YYYYMMDD.
09	Daily package complete	O	8	N	57-64	1st daily package complete. See item 08.
10	Daily package complete	O	8	N	65-72	2nd daily package complete. See item 08.
11	Daily package complete	O	8	N	73-80	3rd daily package complete. See item 08.
12	Daily package complete	O	8	N	81-88	4th daily package complete. See item 08.
13	Daily package complete	O	8	N	89-96	5th daily package complete. See item 08.
14	Daily package complete	O	8	N	97-104	6th daily package complete. See item 08.
15	Daily package complete	O	8	N	105-112	7th daily package complete. See item 08.
16	Daily package complete	O	8	N	113-120	8th daily package complete. See item 08.
17	Daily package complete	O	8	N	121-128	9th daily package complete. See item 08.
18	Daily package complete	O	8	N	129-136	10th daily package complete. See item 08.
19	Empty	M	4	A	137-140	Filled with BLANKS

Set type T02, version 02, bordereau data

Notes on the column headings and the names of the data fields.
These keys are: M = Mandatory
                      O = Optional
                      A = Alphanumeric (fields are left-justified)
                      N = Numeric (fields are right-justified, filled out with starting zeros)

Item	Data element	O M	LG. BYT	A/ N	From- to	Description
01	Set type	M	3	N	1-3	Constant 'T02'
02	Version number	M	2	N	4-5	Constant '02'
03	Data recipient number	M	11	A	6-16	See set type T01, item 03
04	Carrier number	M	11	A	17-27	See set type T01, item 05
05	Means of transport key	M	2	N	28-29	Encoded form. As an exception to the VDA recommendation, the following keys are used: 21 Standard lorry with / without trailer 22 Articulated trailer 23 Large lorry with / without trailer 24 Large articulated trailer 25 Heavy-duty jumbo 26 Passenger car 27 Transporter 28 Transporter with trailer 29 Container lorry
06	Means of transport number	M	25	A	30-54	Depending on the means of transport (item 05), the first 12 characters of the number contain the registration number of the lorry, or the wagon or container number (key 29). From character 14 on - if the lorry has a trailer - you enter the registration number of the trailer.
07	Bordereau number of the accounting bordereau	M	17	A	55-71	ID number allocated to the **accounting bordereau** by the carrier. The bordereau is a combination of carrier orders to one or more plants of the Volkswagen company, however it is created separately for each brand (VW, AUDI, etc.). Left-justified entry. The structure of the bordereau number corresponds to the following 4 fields.
	NL	M	2	A	55-56	Control code of carrier. This two-digit code is for allocating credit note issued by MTB to the individual branches of a carrier. Can be allocated by the carrier.
	SP	M	2	A	57-58	Number range for tour numbers of individual branches of carriers, to avoid duplicate tour numbers. This code is used by MTB to differentiate between the tour numbers of individual branches of a carrier. **Every branch of a carrier uses its own unique SP code.**

Item	Data element	O M	LG. BYT	A/ N	From-to	Description
	TOUR	M	5	N	59-63	Tour number of the lorry. All the individual bordereaus for a lorry are given the same 5-digit code (also for separate bordereaus for different brands). After reaching 99999, this code starts at 00001 again. The SP + TOUR codes make up the TOUR ID for MTB, and the bordereau date makes them unique. Two bordereaus are created for each tour, whereby the relation code 'RE' is specified for goods receipt, and 'RA' for shipping. Both bordereaus have the same Tour ID.
	FREIGHT LIST	M	8	A	64-71	Freight list number allocated by the carrier.
08	Bordereau date	M	8	N	72-79	In the form: YYYYMMDD. Day of transportation (in accounting period).
09	Bordereau correction key	O	1	A	80	Is not used, and is not permitted in the MTB process.
10	Bordereau volume	O	3,3	N	81-86	Entered in cbm, calculated from maximum length, width and height. Right-justified, filled out with starting zeros, 3 decimal places.
11	Bordereau loading metres	O	4,2	N	87-92	Entered in m (loading metres). Right-justified, filled out with starting zeros, 2 decimal places.
12	Transport phase key	O	1	A	93	Not mandatory information for MTB.
13	Relation type key	M	2	A	94-95	Code for relation type of tour: E = Incoming material A = Outgoing transportation VE = Pre-run transportation (e.g. transportation before traffic carrier is changed) VA = Same for outgoing SE = Single trip, incoming SA = Single trip, outgoing RE = Tour, incoming RA = Tour, outgoing UE = Transhipment incoming UA = Transhipment outgoing Left-justified entry.
14	Bordr. costs	M	5,2	N	96-102	Transportation cost of bordereau **in EUR**, right-justified, filled out with starting zeros, 2 decimal places. Rounded off commercially.
15	Sign (+/-) for bordr. costs	M	1	N	103	Sign key. 1=positive, 2=negative.
16	Rel. desc. number	O	20	A	104-123	Number of relation description (number agreed with VWL). Left-justified entry.
17	Tax-ID-Number Client	M	20	A	124-143	Tax-ID-Number of the client, left-justified entry.
18	Transport-ID	O	17	N	144-160	Transport-ID of the recipient (LKWcontrol) for transports regarding NLK associated with the number of relation description. Left-justified entry.
19	Empty	O	10	A	161-170	Filled with BLANKS

Set type T03, version 01, transport information

This set type is intended for the TDS, however it is not used at present.

Notes on the column headings and the names of the data fields.

These keys are: M = Mandatory

               O = Optional

               A = Alphanumeric (fields are left-justified)

               N = Numeric (fields are right-justified, filled out with starting zeros)

Item	Data element	O M	LG. BYT	A/ N	From-to	Description
01	Set type	M	3	N	1-3	Constant 'T03'
02	Version number	M	2	N	4-5	Constant '01'
03	Data recipient number	M	11	A	6-16	See set type T01, item 03
04	Carrier number	M	11	A	17-27	See set type T01, item 05
05	Bordereau number	M	17	A	28-44	See set type T02, item 07
06	Bordereau date	M	8	N	45-52	See set type T02, item 08
05	Means of transport, date present	O	6	N	53-58	Mandatory field for transportation based on AMES-T procedure. Date on which the vehicle is present at the specified location. In the form: YYMMDD
06	Means of transport, time period present	O	4	N	59-62	Mandatory field for transportation based on AMES-T procedure. Time period for which the vehicle is present at the specified location. In the form: HHMM
07	Means of transport, location	O	35	A	63-97	Mandatory field for transportation based on AMES-T procedure. Location at which vehicle is located. Left-justified entry.
08	Arrival date, planned	O	6	N	98-103	Mandatory field for transportation based on AMES-T procedure. Date planned by the carrier within the tour planning, on which the shipment is expected to arrive at the customer. In the form: YYMMDD
09	Arrival date, time	O	4	N	104-107	Mandatory field for transportation based on AMES-T procedure. Time planned by the carrier within the tour planning, at which the shipment is expected to arrive at the customer. In the form: HHMM
10	Information correction key	O	1	A	108	Used exclusively for correction of transport information (SA753) - when the bordereau number and content are unchanged. Repeated processing of 4921 data is currently being processed for LOGIS. Encoded form: BLANK = no change 1 = 1st change 2 = 2nd change etc.
11	Text	O	20	A	109-128	Mandatory field for transportation based on AMES-T procedure. Here the AMES-T certificate from the PDF paper (VDA 4913, SA 713, field 20 – customer document number) is transferred. Left-justified.

Set type T04, version 01, carrier order data

Notes on the column headings and the names of the data fields.

These keys are: M = Mandatory

                O = Optional

                A = Alphanumeric (fields are left-justified)

                N = Numeric (fields are right-justified, filled out with starting zeros)

Item	Data element	O/M	LG. BYT	A/N	From-to	Description
01	Set type	M	3	N	1-3	Constant 'T04'
02	Version number	M	2	N	4-5	Constant '01'
03	Data recipient number	M	11	A	6-16	See set type T01, item 03
04	Carrier number	M	11	A	17-27	See set type T01, item 05
05	Bordereau number	M	17	A	28-44	See set type T02, item 07
06	Bordereau date	M	8	N	45-52	See set type T02, item 08
07	Supplier number	M	11	A	53-63	Supplier number, 8 characters with leading zeros, without index of supplier plant. Sender for incoming transport, recipient for outgoing transport. Left-justified entry.
08	Plant supplier	M	3	A	64-66	Index of supplier plant = index for supplier number. Left-justified entry.
09	DUNS number, supplier	O	11	A	67-77	D-U-N-S $^{®}$ number of supplier
10	Transport loading ref. number	O	8	N	78-85	Reference number which the sender/supplier allocates to the transport/load. Right-justified, filled out with starting zeros. The number must not be duplicated within a period of one year. The sender enters this number on field 8 of the "Carrier order VDA 4922", or on field 13A of the rail freight letter.
11	Carrier order number	M	17	A	86-102	ID number allocated to an order/freight letter by the carrier. In the case of transhipment services the first character of the carrier order number must be 'U'. Left-justified entry.
12	Carrier order date	M	8	N	103-110	Specified by the carrier. In the form: YYYYMMDD
13	Shipment gross weight	M	7	N	111-117	Weight of transportation in kg, including packaging weight and packing (tare). Right-justified, filled out with starting zeros, no decimal places.
14	Number of packages	O	4	N	118-121	The number of collis on the freight carrier which belong to the transportation of a supplier. The field is filled from the VDA 4913, SA 712, and may if necessary be changed manually by the carrier. Right-justified, filled out with starting zeros.

Item	Data element	O/M	LG. BYT	A/N	From-to	Description

15	Recipient / sender	M	11	A	122-132	Recipient number for goods deliveries (relation type=E, VE, SE, R), sender number for outgoing transports (relation type=A, VA, SA). Left-justified entry.
						  VW = 600
						  AUDI = 640
						  SKODA = 650
						  Plausibility of unloading/shipping location.

16	Plant customer	M	3	A	133-135	Plant number: recipient for incoming transport, sender for outgoing transport, e.g. 11 = WOB. The two-digit VW / AUDI plant key is a left-justified entry.
17	Unloading point	O	5	A	136-140	Indicates the location at the customer plant at which the goods are unloaded. **Mandatory information for incoming transport**. Encoded form of customer, left-justified entry. <u>Always</u> contains the original VW/AUDI unloading point.
18	Shipping point	O	15	A	141-155	Indicates the location at the customer plant at which the goods are loaded. **Mandatory information for outgoing transport**. Encoded form of customer, left-justified entry. Items 17 and 18 must be filled for relation type = 'R'.
19	Departure country code	M	3	A	156-158	Country code (ISO standard) of country of departure. Actual point of departure for the route to be accounted for. Left-justified entry.
20	Departure postal code	M	10	A	159-168	Post code for location of departure. Actual point of departure for the route to be accounted for. Left-justified entry.
21	Arrival country code	M	3	A	169-171	Country code (ISO standard) of country of arrival. Actual point of arrival for the route to be accounted for. Left-justified entry.
22	Arrival postal code	M	10	A	172-181	Post code of destination. Actual point of arrival for the route to be accounted for. Left-justified entry.
23	Departure CC	O	6	A	182-187	Key for departure CC. Actual point of departure for the route to be accounted for, only when starting from CC. Left-justified entry.
24	Arrival CC	O	6	A	188-193	Key for arrival CC. Actual point of arrival for the route to be accounted for, only when finishing at CC. Left-justified entry.
25	SOFA code	O	1	A	194	Code indicating whether special transport. Blank = not special transport.
26	SOFA number	O	10	A	195-204	Order number allocated by customer to indicate a special transport with freight evaluation. Left-justified entry.

27	Payment of charges key	M	3	A	205-207	Key for payment of charges in line with VDA4913
						  01 = no free delivery, freight forward
						  ~~02 = free delivery to destination~~
						  03 = free home delivery
						  ~~04 = delivery free to the German border~~
						  ~~05 = free delivery to recipient forwarding agent~~
						Left-justified entry.

28	Shipment volume	M	3,3	N	208-213	Volume of carrier order in cbm. Right-justified, filled out with starting zeros, 3 decimal places.
29	Accounting parameter key 1	O	2	A	214-215	Key for item 30, e.g. 01=item 30 contains loading metres, 02=item 30 contains hrs./min. Right-justified with leading zeros. Extendable. Must be agreed with VWT.
30	Accounting parameter 1	O	6	A	216-221	Entry like in item 29, e.g. item 29 = 01, item 30='8.20' = 8.20 loading metres. Left-justified entry. Mandatory information if item 29 contains an entry.
31	Accounting parameter key 2	O	2	A	222-223	Key for item 32, e.g. 01=item 32 contains loading metres, 02=item 32 contains hrs./min. Right-justified with leading zeros. Extendable. Must be agreed with VWT.
32	Accounting parameter 2	O	6	A	224-229	Entry like in item 31, e.g. item 31 = 01, item 32='8.20' = 8.20 loading metres. Left-justified entry. Mandatory information if item 31 contains an entry.

Item	Data element	O M	LG. BYT	A/ N	From-to	Description
33	Carrier order driving time	O	4	N	230-233	Driving time for the carrier order to be accounted for. Format: HHMM.
34	Carrier order stopping time	O	4	N	234-237	Stopping time for the carrier order to be accounted for. Format: HHMM.
35	Customs ID - T1	O	1	A	238	Blank = no costs for T1 document, 1 = costs to be accounted for T1 document.
36	Customs ID - T2	O	1	A	239	Blank = no costs for T2 document, 1 = costs to be accounted for T2 document.
37	Customs ID - incoming	O	1	A	240	Blank = no costs for incoming document, 1 = costs to be accounted for incoming document.
38	Customs ID - outgoing	O	1	A	241	Blank = no costs for outgoing document, 1 = costs to be accounted for outgoing document.
39	Empty	M	9	A	242-250	Filled out with blanks.

Set type T05, version 01, delivery note

Notes on the column headings and the names of the data fields.

These keys are: M = Mandatory

                      O = Optional

                      A = Alphanumeric (fields are left-justified)

                      N = Numeric (fields are right-justified, filled out with starting zeros)

Item	Data element	O M	LG. BYT	A/ N	From-to	Description
01	Set type	M	3	N	1-3	Constant 'T05'
02	Version number	M	2	N	4-5	Constant '01'
03	Data recipient number	M	11	A	6-16	See set type T01, item 03
04	Carrier number	M	11	A	17-27	See set type T01, item 05
05	Bordereau number	M	17	A	28-44	See set type T02, item 07
06	Bordereau date	M	8	N	45-52	See set type T02, item 08
07	Carrier order number	M	17	A	53-69	See set type T04, item 11
08	Supplier number	M	11	A	70-80	See set type T04, item 7
09	Delivery note number	M	15	A	81-95	ID number which the supplier allocates to a delivery note. Right-justified, filled out with starting zeros, increasing order.
10	Empty	O	5	A	96-100	Filled with BLANKS

Set type T09, version 01, trailer set

Notes on the column headings and the names of the data fields.
These keys are: M = Mandatory
                      O = Optional
                      A = Alphanumeric (fields are left-justified)
                      N = Numeric (fields are right-justified, filled out with starting zeros)

Item	Data element	O M	LG. BYT	A/ N	From- to	Description
01	Set type	M	3	N	1-3	Constant 'T09'
02	Version number	M	2	N	4-5	Constant '01'
03	Set type T01 counter	M	7	N	6-12	Number of T01 set types transferred. Right-justified, filled out with starting zeros, no decimal places.
04	Set type T02 counter	M	7	N	13-19	Number of T02 set types transferred. See item 03
05	Set type T03 counter	M	7	N	20-26	Number of T03 set types transferred. See item 03
06	Set type T04 counter	M	7	N	27-33	Number of T04 set types transferred. See item 03
07	Set type T05 counter	M	7	N	34-40	Number of T05 set types transferred. See item 03
08	Set type T09 counter	M	7	N	41-47	Number of T09 set types transferred. See item 03, must always be 1
09	Empty	M	81	A	48-128	Filled with BLANKS

Changes for issue 04/05/2006:
Set type T02, item 02: Version '02'
Set type T02, item 17: New data field Tax-ID-No.
Set type T02, item 18: New data field Transport-ID for demurrage-accounting
Set type T02, Changes of dataset-length
Set type T04, item 32: Text description

Changes for issue 2012/06/25:
Page 1, 2. passage: completion for file creation
Set type T02, item 13: Completion of relation type keys for transhipment services
Set type T02, item 18: Text description
Set type T04, item 11: Text description

Changes for issue 2012/10/04:
Set type T02, item 18: Datatype A -> N