

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010
EDI-Guideline - VDA Delivery Instruction		Version 0 Page 1/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

CONFIDENTIAL
VERTRAULICH

© Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.

form 552.07

1. Allgemeines /

Der Standard-Bestellprozess von MARQUARDT für Produktionsmaterial erfolgt mittels Lieferplan und Lieferplanabrufen (Einteilungen). Diese MARQUARDT Werknorm beinhaltet eine detaillierte Beschreibung des Nachrichtentyps VDA 4905, wie er von MARQUARDT eingesetzt wird, um Lieferplanabrufe an seine Lieferanten zu versenden. Zusätzliche Definitionen sind nicht zulässig.

2. Zweck und Ziel /

Um die Bereitstellung von Liefermengen und -terminen durch Lieferabrufe zu verbessern, kann MARQUARDT diese Daten in Form von DFÜ-Nachrichten gemäß VDA 4905 zur Verfügung stellen. Mit dieser Richtlinie soll ein reibungsloser Implementierungsprozess gewährleistet und die alle notwendigen Themen geklärt werden.

Die folgenden Seiten beinhalten eine vollständige Beschreibung des Nachrichtentyps VDA 4905, wie er von MARQUARDT implementiert wurde. Es werden alle Segmente dargestellt, unabhängig davon, ob sie beim aktuellen Nachrichtenaustausch genutzt werden. Die offizielle Segmentbeschreibung wurde durch Anmerkungen bzgl. der spezifischen Anforderungen von MARQUARDT ergänzt. Diese Anmerkungen beinhalten zum Beispiel spezifische Werte für genutzte Schlüssel oder zusätzliche Informationen bzgl. der in einem Feld angezeigten Werte.

3. Verwendung von Lieferplanabrufen /

Die Informationen bzgl. Liefermengen und -Terminen in Lieferplanabrufen haben - je nach vereinbartem Belieferungssystem - unterschiedliche Bedeutung:

- **Standardbelieferung:** Die Mengen und Termine sind sowohl Vorschau als auch lieferrelevant.
- **Austauschbare Materialien** (z.B. LED): Die Mengen und Termine sind nur Vorschau Daten.

General

As a standard MARQUARDT is ordering production material via scheduling agreements and delivery schedules. This MARQUARDT Company Standard provides a detailed description of the message type VDA 4905, used by MARQUARDT to communicate delivery schedules to its vendors. No further definition shall be made.

Purpose and aim

To improve the provision of delivery quantities and dates through delivery schedules, MARQUARDT is able to provide these data as EDI messages according to VDA 4905. This guideline shall help to generate a smooth implementation process and clarify the necessary topics.

Following pages contain a full description of the message type VDA 4905 as implemented by MARQUARDT. All segments used by MARQUARDT are included regardless whether or not used in the actual interchange. The official segment description is complemented with remarks pertaining to the specific requirements for an interchange with MARQUARDT. Those remarks contain e.g. specific code values used or additional information on the values shown in a specific field.

Use of Delivery Schedules

Information regarding delivery quantities and dates in the delivery schedules do have different meanings, depending on the agreed delivery system.

- **Standard Delivery:** Quantities and dates are both, forecast and relevant for shipping.
- **Replacable materials** (e.g. LED): Quantities and dates are forecast only.

Version	Datum/Date	Name	Beschreibung / Description
0	18.06.2018	BISCHOFFL	
-	-	-	-
-	-	-	-
-	-	-	-
STD0002094 01 0 0 MN 999			Bearbeiter / Editor
Erstelldatum / Creation date: 08.12.2017			Datum / Date
			Lucas Bischoff
			08.12.2017

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010	
EDI-Guideline - VDA Delivery Instruction		Version 0	Page 2/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

- **KANBAN:** Die Mengen und Termine sind nur Vorschau Daten.
- **Konsignation:** Die Mengen und Termine sind sowohl Vorschau als auch lieferrelevant.
- **KANBAN:** Quantities and dates are forecast only.
- **Consignment:** Quantities and dates are both, forecast and relevant for shipping.

4. Geltungsbereich /

Diese Werknorm ist für die Marquardt-Gruppe gültig. Die jeweils aktuellste Version ersetzt alle Vorgängerversionen.

Application area

This Company Standard is valid in the Marquardt Group. The current version substitutes all previous versions.

5. Zuständigkeit /

Der Konzerneinkauf, Bereich Strategischer Einkauf, ist für den Inhalt und die Aktualisierung verantwortlich.

Responsibility

The Corporate Purchasing, area of Strategic Purchasing is responsible for content and updating.

6. Verzeichnisse / Indexes

6.1 Inhaltsverzeichnis / Contents

1. Allgemeines / General	1
2. Zweck und Ziel / Purpose and aim	1
3. Verwendung von Lieferplanabrufen / Use of Delivery Schedules	1
4. Geltungsbereich / Application area	2
5. Zuständigkeit / Responsibility	2
6. Verzeichnisse / Indexes	2
6.1 Inhaltsverzeichnis / Contents	2
6.2 Tabellenverzeichnis / List of tables	2
7. Beschreibung des Inhalts / Description of the content	3
8. Hinweis / Note	7
9. Änderungen / Revisions	7

6.2 Tabellenverzeichnis / List of tables

Tab. 1: Änderungen / Revisions	7
--------------------------------------	---

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

CONFIDENTIAL

VERTRAULICH

© Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.

Norm / Standard

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010
EDI-Guideline - VDA Delivery Instruction		Version 0 Page 3/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

7. Beschreibung des Inhalts / Description of the content

SATZARTEN / RECORD TYPES				
Record type	Version	S T	Repetition	Data contents
511	02	M	1	Header record delivery instruction (1 time per EDI message) Has to be the first record type in any message
512	01	M	1	Unique call-off data elements (1 time per key: article code, plant customer, part number, unloading point) Follows after 511 Can follow after 513, 514, 515, 517 or 518
513	01	M	1	Reconciliation and call-off data (1 time per article code / plant customer) Follows after 512
514	01	C	R	Additional call-off data (1 time per article code / plant customer) Can follow after 513 or 514
515	02	C	1	Additional delivery call data (1 time per article code / plant customer) Can follow after 513 or 514
517	01	C	R	Packaging data (x times per article code / plant customer) Can follow after 513, 514, 515 or 517 (transfer only if necessary)
518	01	C	R	Text data (x times per article code / plant customer) Can follow after 513, 514, 515, 517 or 518
519	02	M	1	Trailer record delivery instruction (1 time per EDI message) Can follow after 513, 514, 515, 517 or 518 Has to be the last record type in any message

Record type 511, version 02, Header record delivery instruction																									
Pos.	Data element	ST	Format	Data description																					
511_01	Record type	M	N3	Constant "511"																					
511_02	Version number	M	N2	Constant "02"																					
511_03	Customer code	M	A9	Code, which the supplier assigns to a customer. Any data in a record which includes the customer code are subject to data privacy.																					
511_04	Supplier code	M	A9	Code, which the customer assigns to a supplier. Any data in a record which includes the supplier code are subject to data privacy.																					
511_05	Transmission number old	M	N5	During the first transfer the transmission number old is = 00000.																					
511_06	Transmission number new	M	N5	MARQUARDT assigns in each case within their application for each data communication job a transfer number (new). The number "00000" mustn't be used. MARQUARDT and the recipient keep this number up to the next transfer of a delivery instruction. The recipient has to control the completeness of the communication data for each application. Thus a consistently and ascending order isn't necessary. Examples of entries in the two transmission numbers: <table border="0"> <tr> <td>Process</td> <td>Number old</td> <td>Number new</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	Number old	Number new	Start:	00000	00001	Or	00000	00017	Routine:	00019	00020	Or	88051	88061	Overflow:	99999	00001	Or	89361	00011
Process	Number old	Number new																							
Start:	00000	00001																							
Or	00000	00017																							
Routine:	00019	00020																							
Or	88051	88061																							
Overflow:	99999	00001																							
Or	89361	00011																							
511_07	Transmission date	M	N6	Format: YYMMDD = JJMMTT. Date for zero position.																					
511_08	Starting date Cumulative figure receipt	C	N6	Format: YYMMDD = JJMMTT.																					
511_09	Blanks	M	A83	Filled with blanks.																					

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

CONFIDENTIAL
VERTRAULICH

© Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.

form 552.07

Norm / Standard

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010
EDI-Guideline - VDA Delivery Instruction		Version 0 Page 4/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

Record type 512, version 01, Unique call-off data elements				
Pos.	Data element	ST	Format	Data description
512_01	Record type	M	N3	Constant "512"
512_02	Version number	M	N2	Constant "01"
512_03	Customer plant code	M	A3	MARQUARDT plant where the delivery shall be shipped to. Encoded customer format referring to code list index position 01.
512_04	Delivery call-off number new	M	N9	MARQUARDT assigns a delivery call-off number for each data communication job. MARQUARDT and the recipient keep this number up to the next transfer of a delivery instruction. The recipient has to control the completeness of the communication data for each application.
512_05	Delivery call-off date new	M	N6	Related to position 512_04. Format: YYMMDD = JJMMTT.
512_06	Delivery call-off number old	M	N9	See delivery call-off number new.
512_07	Delivery call-off date old	M	N6	Related to position 512_06. Format: YYMMDD = JJMMTT.
512_08	Article code customer	M	A22	MARQUARDT's article code.
512_09	Article code supplier	C	A22	Supplier's article code.
512_10	Order number	C	A12	MARQUARDT's order number assigned to the delivery call-off.
512_11	Unloading point	M	A5	The unloading point identifies the location on the MARQUARDT plant where the delivery shall be shipped to.
512_12	Customer clerk identifier	M	A4	Undefined section.
512_13	Quantity measure unit	M	A2	Encoded format.
512_14	Delivery frequency	M	A1	Encoded format referring to code list index position 03.
512_15	Manufacturing release	C	N1	Number of months inclusive deadline month.
512_16	Material release	C	N1	Number of months inclusive deadline month.
512_17	Requirement code	M	A1	Encoded format referring to code list index position 04.
512_18	Account key	C	A7	Complementary data of the customer, from field (15) of the DIN form 4991-94.
512_19	Stock location	C	A7	MARQUARDT's stock location, complementary to the unloading point.
512_20	Blanks	M	A5	Filled with blanks.

Record type 513, version 01, Reconciliation and call-off dates				
Pos.	Data element	ST	Format	Data description
513_01	Record type	M	N3	Constant "513"
513_02	Version number	M	N2	Constant "01"
513_03	Date of last recorded receipt	M	N6	MARQUARDT booked and considered in their planning recorded receipts of this article up to this date. Format: YYMMDD = JJMMTT.
513_04	Last recorded delivery note number	M	N8	Delivery note number of the last material receipt at MARQUARDT with this article code.
513_05	Delivery note date of last recorded receipt	M	N6	Delivery note date (shipping date) of last receipt posted at MARQUARDT Format: YYMMDD = JJMMTT.
513_06	Quantity of last recorded receipt	M	N12	Quantity of last recorded material receipt at MARQUARDT.
513_07	Cumulative figure receipt	M	N10	Cumulative figure which contains all booked receipts at MARQUARDT positively and negatively starting from a specific date (e.g. 1 st of January) until the deadline of the current delivery instruction.
513_08	Call-off date 1	M	N6	Goods arrival date in the receiving area of MARQUARDT related to the call-off quantity 1. Call-off dates can be indicated as daily, weekly or monthly dates. This position may contain several complementary presentation formats. More explanation in code list index position 05.
513_09	Call-off quantity 1	M	N9	Contains the call-off quantity 1.
513_10	Call-off date 2	C	N6	See call-off date 1.
513_11	Call-off quantity 2	C	N9	See call-off quantity 1.
513_12	Call-off date 3	C	N6	See call-off date 1.
513_13	Call-off quantity 3	C	N9	See call-off quantity 1.
513_14	Call-off date 4	C	N6	See call-off date 1.
513_15	Call-off quantity 4	C	N9	See call-off quantity 1.
513_16	Call-off date 5	C	N6	See call-off date 1.
513_17	Call-off quantity 5	C	N9	See call-off quantity 1.
513_18	Blanks	M	A6	Filled with blanks.

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

CONFIDENTIAL

VERTRAULICH

Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.

form 552.07

Norm / Standard

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010	
	EDI-Guideline - VDA Delivery Instruction	Version 0	Page 5/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

Record type 514, version 01, Additional call-off data				
Pos.	Data element	ST	Format	Data description
514_01	Record type	M	N3	Constant "514"
514_02	Version number	M	N2	Constant "01"
514_03	Call-off date 6	M	N6	See call-off date 1 in record type 513.
514_04	Call-off quantity 6	M	N9	See call-off quantity 1 in record type 513.
514_05	Call-off date 7	C	N6	See call-off date 1 in record type 513.
514_06	Call-off quantity 7	C	N9	See call-off quantity 1 in record type 513.
514_07	Call-off date 8	C	N6	See call-off date 1 in record type 513.
514_08	Call-off quantity 8	C	N9	See call-off quantity 1 in record type 513.
514_09	Call-off date 9	C	N6	See call-off date 1 in record type 513.
514_10	Call-off quantity 9	C	N9	See call-off quantity 1 in record type 513.
514_11	Call-off date 10	C	N6	See call-off date 1 in record type 513.
514_12	Call-off quantity 10	C	N9	See call-off quantity 1 in record type 513.
514_13	Call-off date 11	C	N6	See call-off date 1 in record type 513.
514_14	Call-off quantity 11	C	N9	See call-off quantity 1 in record type 513.
514_15	Call-off date 12	C	N6	See call-off date 1 in record type 513.
514_16	Call-off quantity 12	C	N9	See call-off quantity 1 in record type 513.
514_17	Call-off date 13	C	N6	See call-off date 1 in record type 513.
514_18	Call-off quantity 13	C	N9	See call-off quantity 1 in record type 513.
514_19	Blanks	M	A3	Filled with blanks.

Record type 515, version 02, Additional delivery call data				
Pos.	Data element	ST	Format	Data description
515_01	Record type	M	N3	Constant "515"
515_02	Version number	M	N2	Constant "02"
515_03	Manufacturing release, starting date	M	N6	Format: YYMMDD = JJMMTT.
515_04	Manufacturing release, ending date	M	N6	Format: YYMMDD = JJMMTT.
515_05	Manufacturing release, cumulated demand	M	N10	Progress number of the manufacturing release which is reached at the final date (Position 515_04).
515_06	Material release, starting date	M	N6	Format: YYMMDD = JJMMTT.
515_07	Material release, ending date	M	N6	Format: YYMMDD = JJMMTT.
515_08	Material release, cumulated demand	M	N10	Progress number of the material release which is reached at the final date (Position 515_07).
515_09	FPSD article code	C	A22	FPSD article code
515_10	Intermediate supplier	C	A9	For deliveries to the American spare parts department using an intermediate supplier.
515_11	Date of planning horizon	M	N6	Final date of planning horizon. Format: YYMMDD = JJMMTT.
515_12	Point of consumption	C	A14	Point of consumption.
515_13	Cumulative figure, reached at zero position	C	N10	Cumulative figure reached before the date for zero position in record type 511_08.
515_14	Blanks	M	A18	Filled with blanks.

Record type 517, version 01, Packaging data				
Pos.	Data element	ST	Format	Data description
517_01	Record type	M	N3	Constant "517"
517_02	Version number	M	N2	Constant "01"
517_03	Packaging code customer	M	A22	Code number MARQUARDT assigns to a packaging type.
517_04	Packaging code supplier	C	A22	Code number the supplier assigns to a packaging type.
517_05	Capacity per packaging type	M	N7	Capacity per packaging type in the quantity measure unit of position 512_13.
517_06	Blanks	M	A72	Filled with blanks.

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

CONFIDENTIAL
VERTRAULICH

Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.

form 552.07

Norm / Standard

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010
EDI-Guideline - VDA Delivery Instruction		Version 0 Page 6/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

Record type 518, version 01, Text data				
Pos.	Data element	ST	Format	Data description
518_01	Record type	M	N3	Constant "518"
518_02	Version number	M	N2	Constant "01"
518_03	Delivery instruction text 1	M	A35	Delivery instruction text 1 Currently not used.
518_04	Delivery instruction text 2	C	A1	Delivery instruction text 2 Contains "K" for forecast schedules which are not relevant for delivery.
518_05	Delivery instruction text 3	C	A40	Delivery instruction text 3
518_06	Blanks	M	A47	Filled with blanks.

Record type 519, version 03, Trailer record delivery instruction data				
Pos.	Data element	ST	Format	Data description
519_01	Record type	M	N3	Constant "519"
519_02	Version number	M	N2	Constant "03"
519_03	Counter record type 511	M	N7	Number of transferred record types 511
519_04	Counter record type 512	M	N7	Number of transferred record types 512
519_05	Counter record type 513	M	N7	Number of transferred record types 513
519_06	Counter record type 514	M	N7	Number of transferred record types 514
519_07	Counter record type 517	M	N7	Number of transferred record types 517
519_08	Counter record type 518	M	N7	Number of transferred record types 518
519_09	Counter record type 519	M	N7	Number of transferred record types 519
519_10	Counter record type 515	M	N7	Number of transferred record types 515
519_11	Blanks	M	A67	Filled with blanks.

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

CONFIDENTIAL

VERTRAULICH

© Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungs-befugnis, wie Kopier- und Weitergaberecht, bei uns.

form 552.07

MARQUARDT	EDI-Richtlinie - Lieferabrufe nach VDA	MN N910010
EDI-Guideline - VDA Delivery Instruction		Version 0 Page 7/7

Vor jeder Benutzung Gültigkeit prüfen! / Check validity before each use!

SCHLÜSSELVERZEICHNIS / CODE LIST INDEX

Code list position	Key	Key content	For record type
01	Marquardt plant		512
03	Delivery frequency	Encoded format as follow s: L = according to call-off date T = daily W = weekly M = monthly Or consider customer table	512
04	Requirement code	Encoded format as follow s: S = Series E = general replacement U = Series and replacement V = Trial P = Pilot Z = Additional demand M = First sample Y = Sample X = Other	512
05	Call-off date	For the call-off date there are different representational forms: 1. form: YYMMDD / JJMMTT: means current date as date of arrival. 2. Encoded forms: '000000' Indicates last call-off-field of an article code in this delivery call. The related quantity field as well as all further call fields of the data record are BLANK. '222222' Indicates that no demand is present for the article code. The related quantity field as well as all further call fields of this data record are BLANK. '333333' Indicates the related quantity as BACKLOG. '444444' Indicates the related quantity as IMMEDIATE demand. '555555' Indicates that the following call-off fields contain required quantities, which refer to the period indicated in the call-off date. The related quantity field is BLANK. If all quantities of an article code refer to periods, the first call field begins with '555555'. The call-off date can look as follow s: YYMMDD / JJMMTT for daily demands YYMM00 / JJMM00 demand for month MM '999999' Indicates the quantity field, which can contain the preview quantities of several months in the delivery call under the date " remainder ". All as YY, MM and DD (= JJ, MM, TT) used values of the number correspond to the Gregorian calendar.	513, 514

8. Hinweis / Note

9. Änderungen / Revisions

Kapitel / Chapter	Änderungsbeschreibung / Description of the Revision
Alle all	Werknorm neu erstellt Company Standard initially created

Tab. 1: Änderungen / Revisions

© This document is the exclusive property of Marquardt. Without their consent it may not be reproduced or given to third parties.

VERTRAULICH CONFIDENTIAL

© Alle Rechte bei Marquardt, auch fuer den Fall von Schutzrechtsverletzungen. Jede Veruegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.

form 552.07