Global Delivery Schedule Synchronous to Production / VDA 4916

Version: 1.0 Final

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Notes:	**Based on VDA 4916**

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1 Message Definition

1.1 Principles

The Delivery Schedule Synchronous to Production intends to:

- specify requirements based on the delivery conditions.
- define the aspects that guarantee synchronization between and the supplier.
- provide information allowing the supplier to plan for production and to prepare for delivery of goods.

1.2 References

The Delivery Schedule Synchronous to Production is based on:

- the message structure as defined by VDA for the Delivery Schedule Synchronous to Production → VDA4916.
- the message structure defined and described in this document follows as close as possible the structure of VDA messages.

1.3 JIS-Process Definition

JIS = Just-In-Sequence:

Delivery of parts or modules from the supplier to Magna in same sequence as production sequence at Magna. The supplier is located in immediate area to Magna.

LDJIS = Long-Distance-Just-In-Sequence:

Delivery of parts or modules from the supplier to Magna in same sequence as production sequence at Magna. The supplier is located in Europe – max. about 1.000 km / 20 h delivery time to Magna.

LDJIS-TOP = Long-Distance-Just-In-Sequence with High-, Medium- and Low-Runner:

Delivery of parts or modules from the supplier to Magna in special order-sequence to divide high-, medium- and low-runner (HML). The supplier is located in Europe – max. about 1.000 km / 20 h delivery time to Magna.

Suppliers will be informed about their JIS delivery process as part of the initial procurement / on boarding phase.

2 Message Description

Following pages contain a full description of the → VDA4916 message.

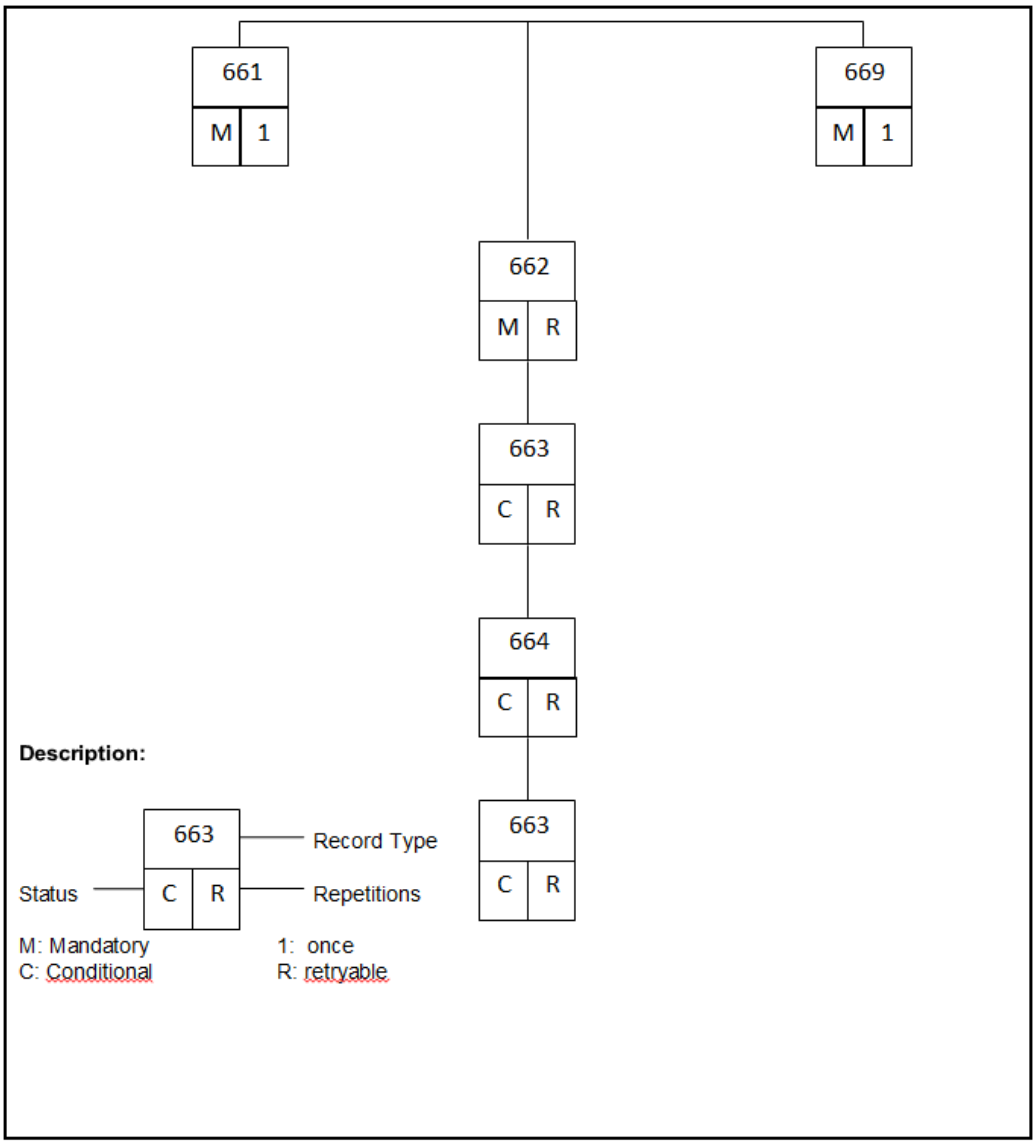
2.1 Segment Table

The following table shows all record-types as defined in the → VDA4916 message. This table should be read in conjunction with the branching diagram.

Record-Type	Content	Status	Occurrence
661	Interchange Header	M	1
662	Vehicle Identity Information	M	R
663	Process relevant information	C	R
664	Part Number Information	C	R
669	Record Counter	M	1

2.2 Branching Diagram

The branching diagram shows the structure of the message. It is a combination of record-types that are organized in a certain hierarchical order.



2.3 Message Standard Description

The message structure illustrates how the segments can be repeated in a → VDA4916 transmission to accommodate the requirements.

2.3.1 Standard / JIS / LDJIS / LDJIS-TOP

661				Interchange Header
Multiple occurrences of 662 loop possible	662			Vehicle Identity Information
	663			Process relevant information – vehicle level
		664		Part Number Information
			663	Process relevant information – part level
		664		Part Number Information
			663	Process relevant information – part level
		664		Part Number Information
			663	Process relevant information – part level
669				Record Counter

2.3.2 Recorder

661				Interchange Header
Multiple occurrences of 662 loop possible	662			Vehicle Identity Information
	663			Process relevant information – vehicle level
		664		Part Number Information
			663	Process relevant information – part level
			663	Reorder information
		664		Part Number Information
			663	Process relevant information – part level
			663	Reorder information
669				Record Counter

3 Record Type Description

The appearance resp. layout of the following record-type-description is based and leaned on the VDA-description to simplify the reading of this document.

Following remarks are valid for all of the further described record-types:

- Numeric-fields have to be right aligned with preceding zeros. These fields do not contain decimals unless otherwise specified in the field-explanation.
- Alphanumeric-fields have to be left aligned unless otherwise specified in the field-explanation.
- Column “VDA M/C” shows the information if a data-field is mandatory (“M”) or conditional (“C”) defined in the → VDA4916 description.
- Column “Feature” defines possible content of a data-field.

3.1 Record Type 661

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
661	01	Record Type	M	3	N	1-3	661	
	02	Version	M	2	N	4-5	01	
	03	Data Receiver Number	M	9	A	6-14		Identification-number that has to be arranged between the transmitter and the receiver of the data. All data of a record structure containing the field Data Receiver Number are subject to data protection.
	04	Data Transmitter Number	M	9	A	15-23		Identification-number that has to be arranged between the receiver and the transmitter of the data. All data of a record structure containing the field Data Receiver Number are subject to data protection.
	05	Transmission Number Old	M	5	N	24-28		See “Transmission-Number-New”. At the first transmission, Transmission-Number-Old = Transmission-Number-New; Description as in Pos. 06
	06	Transmission Number New	M	5	N	29-33		The data-creator assigns a transmission-number to each application-type (e.g.: call-off, dispatch-advice…). It is not allowed to use the entry “00000”. Data-creator and -receiver keep this number for each application-type up to the next transfer of this special field. As the data-creator states the transmission-number of the preceding interchange within this special field in addition to the Transfer- Number-New, the receiver can check the completeness of the transmissions per application-type. Therefore, no uninterrupted ascending order is necessary.
	07	Transmission Date	M	6	N	34-39		Format: YYMMDD.
	08	Empty	M	89	A	40-128	Blanks	

3.2 Record Type 662

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
662	01	Record Type	M	3	N	1-3	662	
	02	Version	M	2	N	4-5	01	
	03	Change Code	M	1	A	6	Z, A, L, N, T	Coded format as follows: Blank = without changes Z = first transmission A = change to earlier transmission L = Storno / deletion of the vehicle N = additional order T = Test
	04	Production Number	M	10	A	7-16		ID synchronous to the production.
	05	Serial Number	C	12	A	17-28		Assembly sequence number.
	06	Plant Customer	C	3	A	29-31		Plant of the recipient where the goods have to be delivered to. Coded customer format.
	07	Point of Unloading	C	5	A	32-36		Point at the recipient's plant, where the goods have to be unloaded. Coded customer format.
	08	Using Point	C	14	A	37-50		PAB-Group-Name
	09	Production Release Key	C	7	A	51-57		Manufacturing department in coded form.
	10	Production Release Date	C	6	N	58-63		Format YYMMDD In connection with Item 13 (estimated assembly date)
	11	Production Release Time	C	4	N	64-67		Format HHMM In connection with Item 14 (estimated assembly time)
	12	Schedule Code	C	1	A	68	P, T, K, N	Related to Item 13 and 14 P = production-forecast signal (VPAB) T = production-final signal (TPAB) K = sequenced call-off signal (SPAB) N= reorder call-off signal (NPAB)
	13	Call-Off Date	C	6	N	69-74		Format YYMMDD Estimated receiving date as per timeline
	14	Call-Off Time	C	4	N	75-78		Format HHMM Estimated receiving time as per timeline
	15	Special Specification	C	12	A	79-90		Special codes: Depending on product specific handling, this data field can be filled with special code information. e.g: "901+908+910"
	16	Type/Body Model	C	8	A	91-98		Significant information concerning the vehicle in coded form.
	17	Vehicle Identification Number	C	19	A	99-117		Unique ID of the vehicle.
	18	Amount of Units	C	9	N	118-126	0	
	19	Empty	M	2	A	127-128	Blank	

3.3 Record Type 663 after 662

3.3.1 Record Type 663 after 662 - LDJIS & LDJIS-TOP

Record Type 663 after Segment 662 covering process relevant information for LDJIS and LDJIS-TOP process.

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
663	01	Record Type	M	3	N	1-3	663	
	02	Version No.	M	2	N	4-5	01	
	03	Marks	M	1	A	6	„ „	
	04	Text 1	C	35	A	7-41		
	05	Text 2	C	35	A	42-76		
	06	Text 3	C	35	A	77-111		
	07	Empty	M	17	A	112-128	Blanks	

3.3.2 Record Type 663 after 662 - specific project information

Record Type 663 after Segment 662 to cover project specific information.

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
663	01	Record Type	M	3	N	1-3	663	
	02	Version No.	M	2	N	4-5	01	
	03	Marks	M	1	A	6	„ „	
	04	Text 1	C	35	A	7-41		See project specific agreement
	05	Text 2	C	35	A	42-76		See project specific agreement
	06	Text 3	C	35	A	77-111		See project specific agreement
	07	Empty	M	17	A	112-128	Blanks	

If needed additional information will be provided in a side letter.

3.4 Record Type 664

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
664	01	Record Type	M	3	N	1-3	664	
	02	Version No.	M	2	N	4-5	01	
	03	Part Number Customer	M	22	A	6-27		ID of an article, packaging or other services defined by Magna (see also record type 663)
	04	Unit of Quantity	M	2	A	28-29	ST, M, M2, M3, L, T, KG, KM	Coded format as follows: ST = piece M = meter M2 = square meter M3 = cubic meter L = litre T = ton KG = kilogram KM = kilometres
	05	Call-Off Quantity	M	9	N	30-38		Quantity to be delivered.
	06	Point of Unloading	C	5	A	39-43		Point at the recipient's plant, where the goods have to be unloaded. Coded customer format.
	07	Using Point	C	14	A	44-57		
	08	Schedule Code	C	1	A	58		
	09	Call-Off Date	C	6	N	59-64		Format YYMMDD In connection with the Record 662 if the part number is used at different points
	10	Call-Off Time	C	4	N	65-68		Format HHMM In connection with 662
	11	Engineering Change	C	14	A	69-82		Engineering-change-level of the part number, assigned by Magna.
	12	Empty	C	46	A	83-128	Blanks	

3.5 Record Type 663 after 664

3.5.1 Record Type 663 after 664 – Standard / LDJIS / LDJIS-TOP

Record Type 663 after Segment 664. This segment is used for order information as well as for additional part information.

3.5.1.1 Order Information (Standard)

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
663	01	Record Type	M	3	N	1-3	663	
	02	Version No.	M	2	N	4-5	01	
	03	Marks	M	1	A	6	„ „	
	04	Text 1	C	35	A	7-41		
	05	Text 2	C	35	A	42-76		
	06	Text 3	C	35	A	77-111		
	07	Empty	M	17	A	112-128	Blanks	

3.5.2 Record Type 663 after 664 - Reorder

Record Type 663 after Segment 664.

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
663	01	Record Type	M	3	N	1-3	663	
	02	Version No.	M	2	N	4-5	01	
	03	Marks	M	1	A	6	„1„	
	04	Text 1	C	35	A	7-41		
	05	Text 2	C	35	A	42-76		
	06	Text 3	C	35	N	77-111		
	07	Empty	M	17	A	112-128	Blanks	

3.6 Record Type 669

Record Types	No.	Element	VDA M/C	Length	Type	from- to	Feature	Description
669	01	Record Type	M	3	N	1-3	669	
	02	Version	M	2	N	4-5	01	
	03	Counter Record Type 661	M	7	N	6-12		Number transferred Record Type 661
	04	Counter Record Type 662	M	7	N	13-19		Number transferred Record Type 662
	05	Counter Record Type 663	M	7	N	20-26		Number transferred Record Type 663
	06	Counter Record Type 664	M	7	N	27-33		Number transferred Record Type 664
	07	Counter Record Type 669	M	7	N	34-40		Number transferred Record Type 669
	09	Empty	M	88	A	41128	Blanks	