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1. General Information

The ANDREAS STIHL AG & Co. KG is ordering the series parts using Scheduling Agreements and Delivery Schedules. This documentation describes the transmission of the Delivery Schedules with the EDIFACT format DELFOR.

The data communication is done with EDIFACT version **99B** and **product-oriented**.

The delivery schedules are update regularly, but there is no fixed rhythm. Every delivery schedule is valid until the next delivery schedule for the same key fields is transmitted (→ see 2.).

Reset of the cumulative goods receipt quantities

In some STIHL production companies (Germany, Brazil and China), the cumulative goods receipt quantities are reset to zero at the year's change. In this case, usually a delivery schedule will be transmitted after the last goods receipt of the year for all relevant materials, from which the cumulative quantity of the old year can be taken. The date of the last reset is transmitted in the segment group 25/26.

In the other STIHL production companies, the reset of the cumulative goods receipt quantities is done on request.

2. Key fields

Necessary key information on the delivery notes:

- [STIHL material no.](#) (segment group 12 / LIN)
- [Scheduling Agreement no.](#) (segment group 13 / RFF+CO)
- [Schd. Agreem. line no.](#) (segment group 13 / RFF+CO)

The information about the Scheduling Agreement- and -line number can be made in the format "0055xxxxxx/yyyy" or as two separate fields. The leading zeroes may be dropped.

3. Principle of data transmission as in version 99B

Header	Header information for the data transfer
Segment group 2	Information about the vendor and the customer
Segment group 6	Identifier for product-oriented delivery schedule
Segment group 12	Information about the material (superior group to SG 13 - 24)
Segment group 13	Information about the contract and the delivery schedule
Segment group 22	Delivery address
Segment group 24	Information about the MRP controller
Segment group 25/26	Information about the most recent delivery, cumulative quantity, and overdue items
Segment group 27/28	Release status and purchase order quantities / dates
Trailer	

Segment groups 12 - 28 are repeated for each material in the data transfer. Thus several vendor addresses and several MRP controllers may occur in a single data transfer, because these are now transferred by material.

4. Description of the individual segment groups

4.1 Header

Administration data relating to this data transfer.

No.	Seg.	Elem.	Content / Description
0010	UNH	20/9865	Message type ("DELFOR")
		20/9852	Message version ("D")
		20/9854	Release ("99B")
		20/9851	Organisation ("UN")
0020	BGM	10/1001	Identifier for transfer number ("241")
		20/1004	sequential transfer number to this vendor
		30/1225	Message function ("5" = replaces previous delivery schedule)
		40/4343	Completion confirmation required ("AB")
0030	DTM	10/2005	Identifier for delivery schedule creation date ("137")
		10/2380	Creation date
		10/2379	YYYYMMDD format ("102")
0030	DTM	10/2005	Identifier for "delivery schedule applicable from" ("157")
		10/2380	Date delivery schedule applicable from
		10/2379	YYYYMMDD format ("102")
0040	FTX	10/4451	Identifier Footer ("AGG")
		40/4440	Footer
		50/3453	Language code

4.2 Segment group 2

This is where the addresses and partner numbers for vendor and customer are transferred.

No.	Seg.	Elem.	Content / Description
0090	NAD	10/3035	Information about the vendor ("SE")
		20/3039	Vendor number
		20/3055	Indicator for "specified by customer" ("92")
		40/3036	Company name (can be multi-line, separated by colon)
		50/3042	Street and number
		60/3164	Location
		70/3229	Region (or blank)
		80/3251	Post code
		90/3207	Country
0090	NAD	10/3035	Information about the customer ("BY")
		20/3039	Vendor's customer number
		20/3055	Indicator for "specified by vendor" ("91")
		40/3036	Company name ("ANDREAS STIHL AG & Co. KG")
		50/3042	PO Box ("Postfach 17 71")
		60/3164	Location ("Waiblingen")
		70/3229	Region ("08" = Baden-Württemberg)
		80/3251	Post code for PO Box ("71307")
		90/3207	Country ("DE" = Germany)

Information concerning the delivery address is transmitted in segment group 22 (NAD+CN segment).

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4.3 Segment group 6

This specifies whether the delivery schedule is product-oriented or delivery location-oriented.

No.	Seg.	Elem.	Content / Description
0200	GIS	10/7365	Identifier for delivery schedule, product oriented transmission ("95")

4.4 Segment group 12

This segment group is used to transfer the material numbers and material descriptions.

No.	Seg.	Elem.	Content / Description
0380	LIN	10/1082 30/7140 30/7143 30/3055	Material number counter ("1") Material number STIHL (the leading blank is dropped) Indicator for "material number customer" ("BP") Indicator for "specified by customer" ("92")
0390	PIA	10/4347 20/7140 20/7143 20/3055	Supplementary information ("1") Vendor material number Indicator for "vendor material number" ("SA") Indicator for "specified by vendor" ("91")
0400	IMD	30/3055 30/7008	Indicator for "specified by customer" ("92") STIHL material text Only one IMD segment is transmitted. Further information about the material can be contained in the FTX segment
0470	FTX	10/4451 40/4440	Indicator for purchase order text ("COI") Purchase order text (also technical description - up to 5x) <u>Text for materials without release:</u> <i>Release for capacity reservation</i> <i>Not approved for production</i> <i>Not approved for material procurement</i> <u>Text for materials with special conditions:</u> <i>Release with special conditions</i> <i>Release specifics available in the STIHL special release document</i> <u>Text for materials with limited technical release:</u> <i>Release with defined horizon</i> <i>Please note the restricted production and material procurement release</i> <i>Production release xx days, Material procurement release xx days</i> <u>Text for blocked materials:</u> <i>Discontinued part - please contact the responsible planner!</i> <i>No production release</i> <i>No material procurement release</i>

PIA is only output if we have entered the vendor material number on the system.

FTX is only output where text exists.

The segment groups 12 - 28 are transmitted for each delivery schedule (= for each material).

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4.5 Segment group 13

Segment group 13 transfers key data about the delivery schedule for the material number specified in segment group 12.

No.	Seg.	Elem.	Content / Description
0490	RFF	10/1153	Information about the outline contract ("CO")
		10/1154	Scheduling Agreement no. (format: "0055xxxxxx")
		10/1156	Scheduling Agreement line no.
0490	RFF	10/1153	Identifier for new delivery schedule number ("AAN")
		10/1154	New delivery schedule no.
0500	DTM	10/2005	Date refers to previous RFF segment ("171")
		10/2380	New delivery schedule date
		10/2379	YYYYMMDD format ("102")
0490	RFF	10/1153	Identifier for old delivery schedule no. ("SH")
		10/1154	Old delivery schedule no. replaced by this data transfer
0500	DTM	10/2005	Date refers to previous RFF segment ("171")
		10/2380	Date of delivery schedule, replaced by this data transfer
		10/2379	YYYYMMDD format ("102")

4.6 Segment group 22

The complete delivery address is transferred in segment group 22.

No.	Seg.	Elem.	Content / Description
0780	NAD	10/3035	Indicator for delivery address ("CN")
		20/3039	Plant (e.g. "D5"- see "Delivery Location" below)
		20/3055	Indicator for "specified by customer" ("92")
		40/3036	Company name and factory (separated by colon)
		50/3042	Street and number of delivery address
		60/3164	Location
		70/3229	Region (or blank)
		80/3251	Post code
		90/3207	Country
0790	LOC	10/3227	Indicator for unloading point ("11")
		20/3225	Unloading point
		20/3055	Indicator for "specified by customer" ("92")

The [plant](#) in the NAD+CN segment and the [LOC+11](#) segment with the [unloading point](#) are transmitted to support the mandatory fields of the EDI description VDA 4905 as well.

4.7 Segment group 24

Segment group 24 transfers information about the MRP controller.

No.	Seg.	Elem.	Content / Description
0850	CTA	10/3139 20/3413 20/3412	Contact person = MRP controller ("IC") MRP controller key Name of MRP controller
0860	COM	10/3148 10/3155	Telephone number of MRP controller Indicator for telephone number ("TE")
0860	COM	10/3148 10/3155	Fax number of MRP controller Indicator for fax number ("FX")
0860	COM	10/3148 10/3155	E-mail address of MRP controller Indicator for electronic mail ("EM")

The COM segments are transmitted only when the relevant information is available in the system.

4.8 Segment group 25/26

Segment group 25/26 is used to transmit data about the most recent delivery, the cumulative quantities and order quantities in backlog.

No.	Seg.	Elem.	Content / Description
0880	QTY	10/6063 10/6060 10/6411	Indicator for "most recent delivery quantity" ("48") Quantity on latest delivery note Unit of quantity (e.g. "PCE" ("EA") = piece, "KGM" = kilogram)
0890	DTM	10/2005 10/2380 10/2379	Indicator for "date of most recent delivery" ("50") Date of last delivery YYYYMMDD format ("102")
0910	RFF	10/1153 10/1154	Indicator for "last delivery note number" ("DQ") last delivery note number
0890	DTM	10/2005 10/2380 10/2379	Indicator for "date of actual goods receipt" ("50") Actual Goods Receipt date YYYYMMDD format ("102")
0880	QTY	10/6063 10/6060 10/6411	Indicator for "Input cumulative quantity" ("70") Cumulative goods receipt quantity since last reset Unit of quantity
0890	DTM	10/2005 10/2380 10/2379	Indicator for "data cumulative quantity last reset" ("51") Date of the last rest of the cumulative goods receipt quantity YYYYMMDD format ("102")
0880	QTY	10/6063 10/6060 10/6411	Indicator for „Cumulative quantity“ ("3") Cumulative quantity Unit of quantity
0880	QTY	10/6063 10/6060 10/6411	Indicator for "overdue items / backlog" ("83") Quantity in backlog Unit of quantity

The date the cumulative quantity was last reset (DTM+51) is output only if the cumulative quantity has been reset at least once.

The backlog segment (QTY+83) is only transmitted if the quantity of overdue items is greater than zero.

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4.9 Segment group 27/28

Segment group 27/28 transfers the quantities and dates on which the deliveries are to be made.

However any quantities that are deliberately in backlog are not transferred here, but in segment group 25 (QTY+83).

No.	Seg.	Elem.	Content / Description
0940	SCC	10/4017	Production release ("2") or Material procurement release ("3") or Preview without go-ahead ("4")
0960	QTY	10/6063 10/6060 10/6411	Indicator for purchase order quantity ("113") Purchase order quantity Unit of quantity
0970	DTM	10/2005 10/2380 10/2379	Indicator: delivery date ("2") or start of needs period ("64") Delivery date / start date of needs period YYYYMMDD format ("102") / YYYYMMDDHHmm format ("203") for JIT
0970	DTM	10/2005 10/2380 10/2379	End of needs period ("63") End date of needs period YYYYMMDD format ("102") → This segment transferred only if "needs period" exists

Within the 3 categories of SG 27 the QTY/DTM(/DTM) combination is repeated for each quantity ordered. Any one of the categories can be missed out if there are no ordered quantities in that category.

A typical sequence would be, for example:

27	SCC+2	Quantities with production release
28	QTY+113	Quantity 1
28	DTM+2	Date 1 (day)
28	QTY+113	Quantity 2
28	DTM+2	Date 2 (day)
27	SCC+3	Quantities with material procurement release
28	QTY+113	Quantity 3
28	DTM+2	Date 3 (day)
28	QTY+113	Quantity 4
28	DTM+2	Date 4 (day)
27	SCC+4	Preview quantities
28	QTY+113	Quantity 5
28	DTM+2	Date 5 (day)
28	QTY+113	Quantity 6
28	DTM+64	Date 6 (date period starts)
28	DTM+63	Date 6 (date period ends)
28	QTY+113	Quantity 7
28	DTM+64	Date 7 (date period starts)
28	DTM+63	Date 7 (date period ends)

The segment groups 27/28 are mandatory. The following data is transmitted in the case that there are no open quantities to be transmitted here.

27	SCC+4	Preview quantities
28	QTY+113	Quantity (zero)

4.10 Trailer

No.	Seg.	Elem.	Content / Description
1040	UNT		Trailer

5. Date and requirement quantity transmission

The transmission takes place strictly to the EDIFACT standard:

- All dates are transmitted in YYYYMMDD (102) or YYYYMMDDHHmm (203) format
- Overdue items/backlog (QTY+83) is used
→ transmission only if backlog quantity > zero
- Requirements far in the future can also be transmitted in monthly format (depending on the creation profile settings in the scheduling agreements):

Example for a transmission in monthly format:

DTM+64:20120501:102 (begin of requirement period on May 1st, 2012)
DTM+63:20120531:102 (end of requirement period on May 31st, 2012)

→ in this case, two DTM segments are transmitted to the quantity in the QTY segment

- if there are no open quantities that are not in backlog, in segment group 27/28 one SCC+4-record and one QTY-record with quantity = 0 are transmitted
→ reason: both records are mandatory

6. Delivery location

The detailed delivery address is transmitted in the NAD+CN segment of segment group 22.

Additionally, the (STIHL-) plant key is transmitted in element 20/3039 of this segment.

- D1 ANDREAS STIHL AG & Co. KG**
Werk D1
Badstraße 115
71336 Waiblingen
- D2 ANDREAS STIHL AG & Co. KG**
Werk D2
Andreas-Stihl-Str. 4
71336 Waiblingen-Neustadt
- D3 ANDREAS STIHL AG & Co. KG**
Werk D3
Stihl-Str. 5
78250 Tengen (Wiechs am Randen)
- D4 ANDREAS STIHL AG & Co. KG**
Werk D4
Andreas-Stihl-Str. 3
54595 Prüm-Weinsheim
- D5 ANDREAS STIHL AG & Co. KG**
Werk D5
Mörikestr. 81-83
71636 Ludwigsburg
- D6 ANDREAS STIHL AG & Co. KG**
Werk D6
Stuttgarter Str. 80
71332 Waiblingen
- D7 ANDREAS STIHL AG & Co. KG**
Werk D7
Kammererstr. 3
71636 Ludwigsburg

- 90** **MUNZ Transport & Logistik GmbH & Co.**
Stuifenstr. 51
74385 Pleidelsheim

- 91** **DSV Solutions Deutschland GmbH**
LOG 1
Markgröninger Str. 47/2
71701 Schwieberdingen

- 92** **DSV Solutions Deutschland GmbH**
STIHL-Halle
Markgröninger Str. 56
71701 Schwieberdingen

- 93** **DSV Solutions Deutschland GmbH**
LOG 3
Markgröninger Str. 47/2
71701 Schwieberdingen

- 94** **DSV Solutions Deutschland GmbH**
Halle M62
Markgröninger Str. 62
71701 Schwieberdingen

- 95** **DSV Solutions Deutschland GmbH**
Building A / Unit 1
Maisenhälden 7
74219 Möckmühl

- 96** **Hellmann Worldwide Logistics Germany GmbH & Co. KG**
c/o Stihl
Hans-Großwendt-Ring 2
66333 Völklingen

- 97** **Kühne + Nagel (AG&Co.) KG**
c/o ANDREAS STIHL AG & Co. KG
Bukarester Str. 11
93055 Regensburg

- 98** **SMARTVISIONfactory GmbH**
Zeppelinstr. 15
78244 Gottmadingen

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- BR1 STIHL Ferramentas Motorizadas Ltda.**
Av São Borja, 3000
93032-524 São Leopoldo RS
Brazil
- CN1 ANDREAS STIHL Power Tools (Qingdao) Co., Ltd.**
Export Processing Zone
266113 Qingdao, Shandong Province
P.R. China
- US1 STIHL Incorporated**
536 Viking Drive
Virginia Beach, VA 23452
USA
- VK0 STIHL Tirol GmbH**
Hans Peter Stihl-Str. 5
6336 Langkampfen / Kufstein
Austria
- VK1 Anton Hofer Ges.m.b.H & Co. KG**
Oberndorf 39
6344 Ebbs
Austria
- VK2 SCHENKER & CO AG**
Gewerbepark Süd 8
6330 Kufstein
Austria
- VKC CBC Color-Beschichtungs-Center
Kufstein Ges.m.b.H**
Kufsteiner Wald 27
6330 Kufstein
Austria
- VKD Hellmann Worldwide Logistics Germany GmbH & Co. KG**
Hans-Großwendt-Ring 2
66333 Völklingen
Germany
- VKF Fertigwarenlager STIHL Tirol GmbH**
Rhenus Logistics Alsace S.A.
10 Rue de Chalon-sur-Saône
67000 Strasbourg / Cedex
France
- VKZ Regionallager Ost STIHL Tirol GmbH**
Rhenus Logistics s.r.o.
Průmyslová 377
742 51 Mošnov
Czech Republic

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Additionally, a key for the **unloading point** is transmitted in the LOC+11 segment of segment group 22.

For the **German STIHL plants** (D1 - D7), the unloading point - if deviating from the plant - specifies in addition to the plant address the gate and the building for the goods receipt. But this information is also already included in the address fields.

Example:

23500 = Plant **D2**, Gate **3**, Building **500**

→ transmitted in line 2 of the address as "Werk D2, Tor 3 / 500"

The following combinations of plant and unloading point occur currently:

Cus-tomer Plant	Unloading Point	Line 2 of the Delivery Address
D1	11070	Plant D1, Gate 1 / 070
D2	22310	Plant D2, Gate 2 / 310
D2	22340	Plant D2, Gate 2 / 340
D2	23500	Plant D2, Gate 3 / 500
D3	31010	Plant D3, Gate 1 / 010
D5	51010	Plant D5, Gate 1 / 010
D6	61030	Plant D6, Gate 1 / 030

For **all other plants**, the plant key is transmitted a second time as unloading point.