

EDI Documentation

Delivery Note

DESADV 91.1

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1. Principles of electronic interchange of delivery note data

1.1 Introduction

The structure employed by the BSH factories is an extract from the EDIFACT Standard DESADV 91.1. (White Goods Germany).

Messages may be received by means of a mailbox system or via a direct link (OFTP/ISDN). In choosing the transmission channel the journey time of the trucks and the transmission time for the data must be taken into account:

Maximum throughput time at BSH, if the data is sent to BSH between 08.00 and 16.00 o'clock:

... via GXS Mailbox:	approx. 2 hours
... via Telebox400:	approx. 2 hours
... via Internet (WebEDI/BISS):	approx. 15 minutes
... direct OFTP/ISDN:	approx. 15 minutes

Supplementary information on the possible transmission channels may be found in our publication "EDI - Tips & Advice".

1.2 Structure and contents of messages

In normal cases, the transmission of a dispatch notification relates to a truck shipment. The driver identifies himself at "goods-receipt" using an unique number (e.g. the vehicle's registration code). With this information, the data is selected, checked and automatically posted in the application system.

Identification of the truck is made via the identifier transmitted in the TDT or EQD segment, e.g. vehicle registration, "Freight card" or another unique code and the item-based BSH unloading point (segment LOC).

Only dispatch notifications for materials recorded with BSH as series production material can be processed. This takes the form of all materials ordered via a delivery schedule (generally by means of EDI).

DESADV 91.1 segments exchanged with other customers but not described in the BSH documentation can also be processed by the EDI converter. No analysis takes place, however.

Further information on using the segments may also be taken from the annex "Segment documentation".

1.3 Special handling "Number of trading units / filling quantity" with PAC segment

Our standard handling is trading unit-oriented. The CPS segment describes a trading unit (package/pallet) to which material number, quantity, etc. are assigned. The EDI converter combines all trading units with the same number, and generates from this a goods receipt posting for the application system.

Transmission of data at trading unit level is not possible in the case of some suppliers. The following special handling method can be used here:

1. The number of trading units (total) is transferred in the segment PAC (element 7065).
2. The subsequent QTY in Group 11 with qualifier 52 contains the filling quantity for a trading unit.

This mode of handling is only possible if there is only one LIN (material number) per CPS (trigger segment). Or vice versa: There can only be one CPS for each LIN.

This special handling is initiated automatically in the BSH EDI converter, when the associated QTY segment is transmitted after the PAC segment.

In the annex "Examples", you will find an example of the special handling described. The special handling is not described in greater detail in the segment overview and the segment documentation.

1.4 -

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1.5. Message structure (overview and use at BSH)

		Segment	Mandatory/Conditional	
			<i>Group:</i>	<i>Segm.:</i>
		UNH Message header segment	M	
		BGM Freely assignable message number	M	
		DTM Shipped date	M	
[	G01	RFF Target arrival trigger segment for DTM	M	M
[	G01	DTM Target arrival data and time		M
[	G02	NAD Seller, supplier number at BSH	M	M
[	G02 G03	RFF e.g. sales tax identity number	C	M
[	G02	NAD Buyer, customer number at seller's	M	M
[	G02 G03	RFF e.g. sales tax identity number	C	M
	G06	TDT Vehicle registration	C	M
[	G08	EQD Vehicle registration	C	M
[	G08	MEA Dimensions and weights		C
[	G10	CPS Trigger segment package/pallet	M	
	G11	PAC Packaging	C	M
	G15	LIN BSH material number	M	M
		PIA Material number seller		C
		IMD Material description		C
		MEA Dimensions and weights		C
		QTY Quantity and quantity unit per trading unit		M
		FTX Free text		C
	G16	RFF Contract no./schedule no.	M	M
	G16	DTM Date		C
	G16	RFF Delivery note number	M	M
	G16	DTM Delivery note date		C
[	G10 G15 G17	LOC Delivery gate/unloading point	M	M
		UNT Message end segment	M	

1.6. Annexes

- Branching diagram
- Segment documentation
- Examples

1.7. Amendments documentation

November 1998

- All pages BSHG, Bosch-Siemens changed to BSH Bosch und Siemens.
Other minor corrections, but no content-related amendments.
- Page 22 Chapter 1.3 Special handling "Number of trading units/filling quantity".

June 2006

- All pages Documentation completely revised.

March 2009

If the storage unit number (Lagereinheitennummer) of BSH is required it can be transferred in segment CPS:7164.

Example:

...

```
CPS+0004012345++3'  
LIN+++1906565656:::92'  
QTY+12:200:PCE'  
RFF+BO:5500000058'  
RFF+AAU:0082078186'  
LOC+20+01'  
CPS+0004012346++3'  
LIN+++1906565656:::92'  
QTY+12:200:PCE'  
RFF+BO: 5500000058'  
RFF+AAU:0082078188'  
LOC+20+01'
```

...

If you use the special handling "Number of trading units / filling quantity" (Chapter 1.3) it is not possible to send several packages and thus it is not possible to send storage unit numbers!

Chapter 1.4 deleted without replacement.