BAAN IVc4

Definition of BEMIS 1.1.a Import and Export File of the Message Type Schedule

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Baan Development B.V.
P.O.Box 143
3770 AC Barneveld
The Netherlands

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About this document

This documentation details the standard inhouse data formats, which the BAAN Electronic Message Interchange System BEMIS requires as interfaces to the appropriate EDI subsystem.

The documentation is intended for developers of EDI subsystems, which want to realize an interface of their software to BAAN IV. Furthermore, it supports consultants, who want to implement and verify such an interface within a customer project. Important fields are identified with both the English and German terms, to assist German-language speakers using this documentation.

Chapter 1 gives an overview over the general principles of the relevant EDI message. For example available kinds of data records, message structure, key fields and other conventions.

Chapter 2 details all corresponding kinds of data records for the EDI message. All data fields are listed in an overview table in connection with the corresponding table fields. In addition, every single field is detailed more. You will find information about the general conditions, which you need to observe for the processing in the EDI subsystem or in BAAN IV.

Please notice:

If you want to use this new version of the BEMIS schedule please install the solution of **DEFECT 79188 / 1** (Extension for new BEMIS Struktur)

Changes in comparison with the previous version:

- Record type SA1 Schedule Overhead
  No changes
- Record type SA2 Schedule Header
  SA2.43 incoming: the value for the line feed location is now mapped to tdssc002.lnfd.

  SA2.44 New Item Description out from tiitm001.dsca in tdssc002.txta

  SA2.45 New: Design revision number in tdssc002.txta

  SA2.46 New Shipping note time last receipt in: tdssc002.txta
- Record type SA3 Schedule Text
  The length of the text segments are extended from an..40 to an..70.

- Record Type SA4 Scheduling Lines
  SA4.13 in: now supported by import to tdssc003.dref (an..35)

  SA4.16 The “RAN - / DON – Number ” tdssc003.ican has been added. Thus it is now possible to import RAN Numbers.

  SA4.17 The End of record sign “SA4_END” is moved from position 16 to position 17.
- Record Type SA5 Schedule Authorizations
  No changes
- Record Type SA6 Schedule Packaging Data
  No change
- Record Type SA7 Schedule Delivery History
  SA7.10 New Quantity of the second last shipping note (receipt) out: tdpsc007.rqty in: tdssc002.txta

  SA7.11 New Quantity of the third last shipping note (receipt) out: tdpsc007.rqty in: tdssc002.txta

1 General principles

This section describes the BAAN EDI inihouse format for the message type *Schedule (incoming/outgoing)*.

Available kinds of data records

The use of the following kinds of data records is conditional (C) respectively mandatory (M), when you transmit information about schedules by means of the messages VDA 4905 ("*Datenfernübertragung von Lieferabrufen*")[1] , ODETTE DELINS or EDIFACT Delfore.

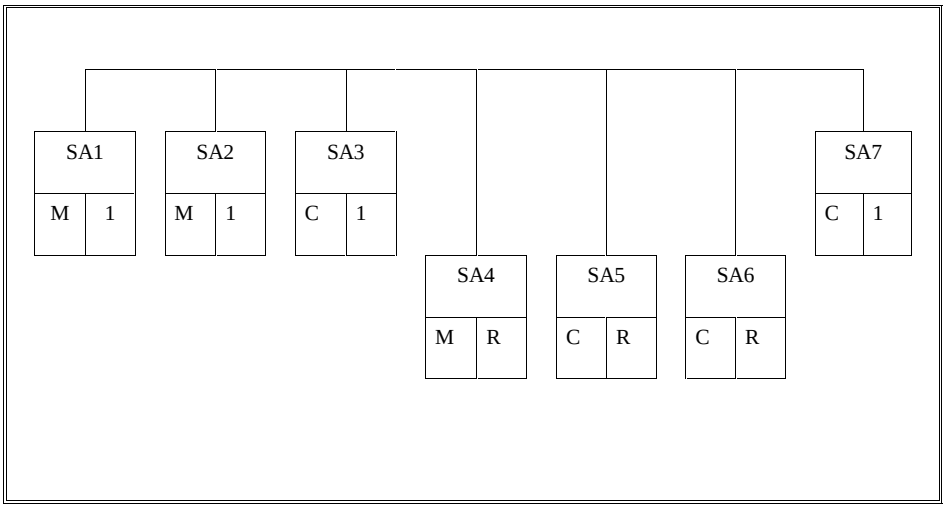
ID	Status	Name
SA1	M	Schedule Overhead (*Nachrichten-Vorsatz*)
SA2	M	Schedule Header (*Kopfdaten Lieferabruf*)
SA3	C	Schedule Text (*Textdaten*)
SA4	M	Schedule Lines (*Abrufdaten*)
SA5	C	Schedule Authorizations (*Freigabe-Informationen*)
SA6	C	Schedule Packaging Data (*Packmitteldaten*)
SA7	C	Schedule Delivery History (*Historie Lieferscheindaten*)

[1] Remote transmission of schedules.

Branching diagram

The branching diagram shows the structure of the message. It indicates the hierarchical relationship between segments. A segment is a set of functionally-related BAAN tables.

The following data record structure is used for the message type BEMIS – Schedule:



Legend:

Status: Frequency:

M: mandatory message 1: once in message

C: conditional message R: repeatable in message

Figure 1, Branching diagram

For example, for two required items the BEMIS file has the following structure:

```
SA1 ...     BAAN IV Overhead
SA2 ...     Supplier / customer and item data 1
SA3 ...     Text
SA4 ...     Date, quantity of item 1
SA4...      Date, quantity of item 1
....
SA5 ...
SA6 ...
SA7 ...
```

```
SA1 ...     BAAN IV Overhead
SA2 ...     Supplier / customer and item data 2
SA3 ...     Text
SA4 ...     Date, quantity of item 2
SA4...      Date, quantity of item 2
                              ....
SA5 ...
SA6 ...
SA7 ...
```

```
SA1 ...     BAAN IV Overhead
SA2 ...     Supplier / customer and item data 3
SA3 ...     Text
SA4 ...     Date, quantity of item 3
SA4...      Date, quantity of item 3
....
SA5 ...
SA6 ...
SA7 ...
```

```
SA1 ...     BAAN IV Overhead
SA2 ...     Supplier / customer and item data 4
SA3 ...     Text

SA4 ...     Date, quantity of item 4
SA4...      Date, quantity of item 4
                              ....
SA5 ...
SA6 ...
SA7 ...
```

Key fields outgoing

The following structure of the key fields is used to determine the related data records of a schedule:

Kind of data record	Key field 1	Key field 2	Key field 3	Key field 4
SA1	Message reference			
SA2	Message reference	Identification supplier	Key delivery address	Customer's item number
SA3	Message reference	Identification supplier	Key delivery address	Customer's item number
SA4	Message reference	Identification supplier	Key delivery address	Customer's item number
SA5	Message reference	Identification supplier	Key delivery address	Customer's item number
SA6	Message reference	Identification supplier	Key delivery address	Customer's item number
SA7	Message reference	Identification supplier	Key delivery address	Customer's item number

Key fields incoming

The following structure of the key fields is used to determine the related data records of a schedule message:

Kind of data record	Key field 1	Key field 2	Key field 3	Key field 4
SA1	Message reference	Network address customer		
SA2	Message reference	Network address customer	Key delivery address	Customer's item number
SA3	Message reference	Network address customer	Key delivery address	Customer's item number
SA4	Message reference	Network address customer	Key delivery address	Customer's item number
SA5	Message reference	Network address customer	Key delivery address	Customer's item number
SA6	Message reference	Network address customer	Key delivery address	Customer's item number
SA7	Message reference	Network address customer	Key delivery address	Customer's item number

Network directories

The so-called network directories form the basis of the communication between the EDI subsystem and BAAN IV. These directories are established in BAAN. The network basis directories for each network are defined in the BAAN session tcedi0120m000. For the network BEMIS, the basis directories can be indicated in the following way:

/auto3/baanIV/bemis/lab/

BAAN will additionally create the following subdirectories:

/auto3/baanIV/bemis/lab/appl_from/
/auto3/baanIV/bemis/lab/appl_to/
/auto3/baanIV/bemis/lab/command/
/auto3/baanIV/bemis/lab/store_recv/
/auto3/baanIV/bemis/lab/store_sent/
/auto3/baanIV/bemis/lab/trace/

The above mentioned directories have the following function:

1. .../appl_from/: In this directory, BAAN IV records the outgoing messages which are the defined BEMIS inhouse format files. The EDI subsystem can collect them from here.
2. .../appl_to/: The EDI subsystem writes the incoming message into this directory in the BAAN IV inhouse format.
3. .../command/: Directory of the semaphores.
4. .../store_recv/: BAAN IV stores in this directory processed incoming messages, if the configuration is accordingly. During this process an additional subdirectory by incoming message file is created which is named with a date and time stamp indicating when the message was moved.
5. .../store_sent/: BAAN IV stores in this directory processed outgoing messages if the configuration is accordingly. During this process an additional subdirectory by incoming message file is created which is named with a date and time stamp indicating when the message was moved.
6. .../trace/: BAAN creates under this directory a log of the incoming and outgoing messages in the processing order, if the configuration is accordingly.

For every message type one network directory is used for outgoing and one for incoming messages. This means that one message file contains data for several business partners.

The file name of the BEMIS inhouse format file of the shipment notification, which is being described in this documentation, is defined in the following way:

Direction	File name	Network directory
outgoing	LABOUT	../appl_from
incoming	LABIN	../appl_to

BEMIS Messages – Conventions

The following general rules apply to a message record in a BEMIS message file:

1 Every message record starts with “SAx“

2 Every message record ends with “SAx_END“

3 The length of a data record can vary.

4 The message record must consist of all fields, even if not every field contains a value.

5 The fields in the file must be separated by a ; .

6 All string fields have to be put in **“**....**“**.

7 The numerical values must not be put into ““.

In the following sections you will find the format descriptions for the individual kinds of data records of the interface file. The table contains the following data:

SCHEDULE INHOUSE FORMAT				
Pos	FIELD DESCRIPTION	Key	ST	FM

The first block of the table describes the format of a kind of data record:

Pos.	Position of the field in the data record	
Field name	Description of the field	
Key	Key field outgoing (O) / incoming (I)	
ST	Field status mandatory (M) / conditional (C)	
FM	Field format	
	an..14	alphanumerical field with a maximum of 14 characters
	an14	alphanumerical field with exactly 14 characters
	n..10	numerical field with a maximum of 10 characters
	n1	numerical field with exactly 1 character

from Application Table Fields (out) / Mapping to (in)	
Table Field	Action

The second block of the table describes the corresponding table field in BAAN IV as well as possible special actions, which are carried out during the processing of the messages.

When BAAN generates outgoing messages, the numerical fields are written into the inhouse format file without leading zeros. For example, for the year “0000“ a “0“ is written into the BEMIS message file.

In the past, there seemed to be some doubts about the way BAAN points out a position within the message file. Here are some additional explanations:

As defined in BEMIS a position within a message file is pointed out using two semikolons.

To draw an example: `”SAX”;...;Position;...;”SAX_END”`

If an position in a BEMIS Message File is not taken by a value (this means the position is empty), the position is pointed out as shown above. Moreover the BAAN EDI Module distinguishes between numerical and alphanumerical data format. If a position defined as numerical is empty the position is pointed out using semikolons. On the other hand emty alphanumerical positions are exported in two way. The first way is to point out a position using the semikolons. The second way BAAN exports empty alphanumerical positions is to write two inverted commans within the position. This depends whether the alphanumerical field existis in BAAN’s database or not. Finally we take a look at the following expample:

empty numerical Position:

```
”SAX”;...;;...;”SAX_END”
```

empty alphanumerical Position:

```
”SAX”;...;;...;”SAX_END”
```

or

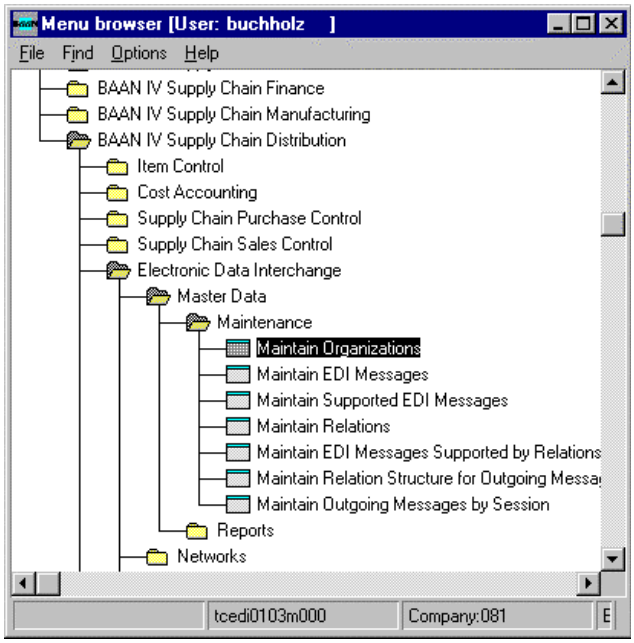
```
”SAX”;...;””;...;”SAX_END”
```

Changing the Date Format

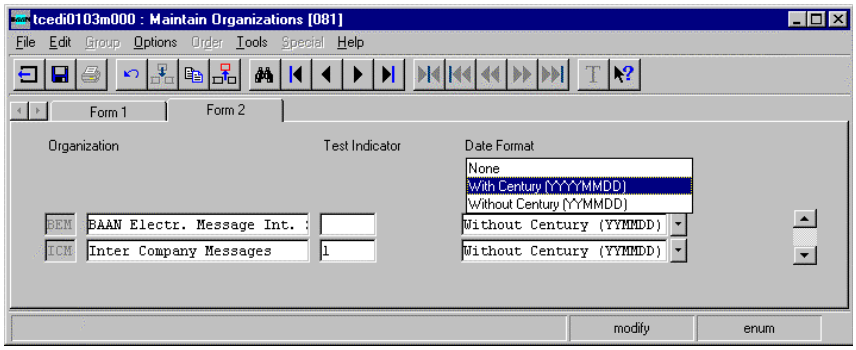
For the BAAN Versions b and c2/3 we have defined a date format using up to 6 numerical digits. Reading this definition, you will find out that the date format has been changed to 8 digits at maximum. With the BAAN Version BAAN IVc4 the delivered BEMIS default file the defaults.edi will be different in this point (in comparison to the versions delivered before). In BAAN EDI there is one global Parameter in order to send out date information including the two digits for the century.

The enclosed screen shots will show you where you will find the responsible parameter.

You have to choose the following menu option:



After you called the session tcedi0103m000 you will see that the entry for the dateformat on form two has been changed to “With Century (YYYYMMDD).



PLEASE NOTICE: If you use this option above the date format of every exported message will be changed to 8 digits! This means that the partner system (the translator software) has to able to translate each outgoing message comming with the changed date format!

Following the table overview, every field is more detailed, including information about the processing in the EDI subsystem and in BAAN IV.

Changes in Comparison to Version 1.0.a

In comparision to version 1.0.a new positions has been added.

Please notice:

If you want to use this new version of the BEMIS schedule please install the solution of **DEFECT 79188-1**.

Changes:

SA2:

SA2.43 incoming: the value for the line feed location is now mapped to tdssc002.lnfd.

SA2.44 New Item Description out: from tiitm001.dsca; in: tdssc002.txta

SA2.45 New: Design revision number in. tdssc002.txta

SA2.46 New Shipping note time last receipt in: tdssc002.txta

SA2.47: SA2_END is moved from SA2.44 to SA2.47s

SA3:

SA3.6 Text field length extended from an..40 to an..70

SA3.7 Text field length extended from an..40 to an..70

SA3.8 Text field length extended from an..40 to an..70

One last change:

SA4:

SA4.13 in: now supported by import to tdssc003.dref (an..35)

SA4.16 The “RAN - / DON – Number ” tdssc003.ican has been added. Thus it is now possible to import RAN Numbers.

SA4.17 The End of record sign “SA4_END” is moved from position 16 to position 17.

SA7:

SA7.10 New Quantity of the second last shipping note (receipt) out: tdpsc007.rqty in: tdssc002.txta

SA7.11 New Quantity of the third last shipping note (receipt) out: tdpsc007.rqty in: tdssc002.txta

SA7.12 SA7_END is moved from SA7.10 to SA7.12

2 Data record description by kind of data record

SA1 Schedule Overhead

Status: Mandatory

Frequency: Once by schedule

Description: This data record contains informationen about the transmitter, the message type and the time of the transmission. Themessage reference identifies all related data records of this message.

SCHEDULE INHOUSE FORMAT					Mapping from Application Table Fields (out)		Mapping to Application Fields (in)	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Kind of data record	O/I	M	An3	SA1		SA1	
2	Message reference	O/I	M	An..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Network address customer / supplier		M	An..17	tcedi028.neta	Conversion (see below)	tcedi702.reno	Conversion (see below)
4	Our identification in the network		M	An..17	tcedi020.neta	Conversion (see below)		
5	Message		M	An..6	tcedi001.code	Conversion (see below)	tcedi702.mess	Conversion (see below)
6	Organization		M	An..6	tcedi003.code	Conversion (see below)	tcedi702.orga	Conversion (see below)
7	Order type		M	An..35	tcedi011.koor	Conversion (see below)	tcedi702.koor	Conversion (see below)
8	Transmission reference		M	An..20	0		tcedi702.msno	
9	Date of transmission		M	n..8	current date		tcedi702.send	
10	Time of transmission		M	n..4	current time		tcedi702.sent	
11	Transmission reference old		M	An..20	0		tcedi702.prno	
12	Data record end sign		M	An7	SA1_END		SA1_END	

Detailed description of Schedule, data record SA1 Overhead

Position	**1**	Field format	**an3**	Field status	**M**
Field name	**Kind of data record**			(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA1’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA1’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA1’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name	**Message reference**			(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The numbering, which has to be unambiguous by schedule, helps to control the chronological order of the schedules and thecomplete transmission. The field consists of a fix item with four characters, the current date (format: YYMMDD) and a serial number with four characters.

The special format is defined in the network parameters in the BAAN table tcedi020. When generating the message reference with the EDI subsystem, the created message reference needs to be specific, that means unique. While storing the message reference BAAN controls whether it is specific.

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this number to identify a schedule, stores it in the BAAN table field tcedi701.bano and writes it into all data records of a schedule.

Processing incoming

EDI subsystem: The EDI subsystem generates this number to identify a schedule and writes it into all data records of a schedule.

BAAN: Mapping to BAAN table field tcedi702.bano.

Position	**3**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer / supplier** (Key field out/in)				

Description: This field contains on the outgoing side the network address of the supplier and on the incoming side the network address of the customer.

Processing outgoing

EDI subsystem:

BAAN: The network address is stored in the BAAN table tcedi028 ‘Relations by network’ under the corresponding business partner (supplier) and the corresponding network in the BAAN table field tcedi028.neta. The contents of this field is mapped to the position of the transmission file.

Processing incoming

EDI subsystem:

BAAN: The network address determines the corresponding business partner (customer) and the network in the table tcedi028 ‘Relations by network’. This identification is mapped to the BAAN table field tcedi702.reno.

Position	**4**	Field format	**an..17**	Field status	**M**
Field name	**Our identification in the network**				

Description: This field contains on the outgoing side our identification (customer) in the network.

Processing outgoing

EDI subsystem:

BAAN: The department or employee coded in the used network is entered in the table tcedi020 ‘Networks’. The BAAN table field TFtcedi028.neta is mapped to this position.

Processing incoming

EDI subsystem: Transmission of the value from the message file.

BAAN: On the incoming side this field is ignored.

Position	**5**	Field format	**an..6**	Field status	**M**
Field name		**Message**			

Description: This field contains the code for the identification of the concerned message. The code for the message type ‘Schedule’ is LAB-IO.

Processing outgoing

EDI subsystem:

BAAN: The internal message code tcedi001.code ‘LAB-IO’ of the BAAN table tcedi001 ‘Supported EDI messages’ is mapped to this position.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘LAB-IO’.

BAAN: The message code in the table tcedi001 ‘Supported EDI Messages’ determines, which internal message in BAAN is connected to this schedule. In the BAAN table tcedi005 ‘EDI Messages’ is determined for every message which session (Dll) is used in BAAN to process the schedule. The message code is mapped to the BAAN table field TFtcedi702.mess.

Position	**6**	Field format	**an..6**	Field status	**M**
Field name		**Organization**			

Description: This field contains the organization (Standard), which is used for the EDI communication.

Processing outgoing

EDI subsystem:

BAAN: The internal organisation code tcedi003.code ‘BEMIS’ from the BAAN table tcedi003 ‘Organizations’ is mapped to this position.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘BEMIS’.

BAAN: Mapping to BAAN table field tcedi702.orga.

The corresponding organization must have been entered into the BAAN table tcedi003.

Position	**7**	Field format	**an..35**	Field status	**M**
Field name		**Order type**			

Description: This field contains a code for the concerned order type.

Processing outgoing

EDI subsystem:

BAAN: In the BAAN table tcedi011 there must be an entry for this order type in connection with the appropriate message and organization. The BAAN table field tcedi011.koor is mapped to this position. It is not filled at the moment.

Processing incoming

EDI subsystem: This position is not filled at the moment.

BAAN: Mapping to BAAN table field tcedi702.koor.

In the BAAN table tcedi200 there must be an entry for this order type in connection with the appropriate message and organization.

Position	**8**	Field format	**an..20**	Field status	**M**
Field name		**Transmission Reference**			

Description: This field contains the reference code which the EDI subsystem applied to this transmission.

Processing outgoing

EDI subsystem: Entry of the reference code for the transmission into the transmission file.

BAAN: The position is filled with 0 .

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tcedi702.msno

Position	**9**	Field format	n..8	Field status	**M**
Field name		**Date of transmission**			

Description: This field contains on the outgoing side the current date, on which the schedule message was created. On the incoming side, this field contains the arrival date of the schedule at the EDI subsystem (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of the current date to the position.

Processing incoming

EDI subsystem: Entry of the arrival date of the message at the EDI subsystem.

BAAN: Mapping to BAAN table field tcedi702.send

Position	**10**	Field format	**n..4**	Field status	**M**
Field name		**Time of transmission**			

Description: This field contains on the outgoing side the time, when the schedule message was created. On the incoming side, the field contains the arrival time of the schedule at the EDI subsystem (format: HHMM).

Processing outgoing

EDI subsystem:

BAAN: Mapping of the current time to the position

Processing incoming

EDI subsystem: Entry of the arrival time of the message at the EDI subsystem.

BAAN: Mapping to BAAN table field tcedi702.send.

Position	**11**	Field format	**an..20**	Field status	**M**
Field name		**Transmission reference old**			

Description: This field contains the reference number, which the EDI subsystem applied to the previous transmission.

Processing outgoing

EDI subsystem: Entry of the reference code for the previous transmission into transmission file.

BAAN: The position is filled with 0 .

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tcedi702.prno

Position	**12**	Field format	**an7**	Field status	**M**
Field name		**Data record end sign**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA1_END’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA1_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA1_END’.

BAAN: None

SA2 Schedule Header - *Lieferabruf Kopfdaten*

Status : Mandatory

Frequency: Once by customer / supplier and item data

Description: This kind of data record is used to transmit item number-specific data. The data record contains information about the previous schedule, the exact delivery address and information about schedule authorizations. All data records up to the next data record of the type SA2 refer to the same item number.

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Kind of data record	O/I	M	an3	SA2		SA2	
2	Message reference	O/I	M	an..14	tcedi701.bano		tcedi702.bano	
3	Supplier code (out) Network address customer (in)	O I	M M	an..6 an..17	tdpsc002.suno		 tdssc002.cuno	Conversion (see below)
4	Key field delivery address	O/I	M	an..20	tdpsc001.plnt + tdpsc001.delp		tdssc002.cdel	Generation by EDI subsystem Conversion based on qualifier in pos. 6 and 7 (see below)
5	Customer's item number	O/I	M	an..35	tdpsc002.item		tdssc002.item	Conversion based on qualifier in pos. 8 (see below)
6	Qualifier address code		M	an2	DP		DP	
7	Qualifier address type		M	an2	ZZ		ZZ	
8	Qualifier item number		M	an2	SA		SA	
9	Consignee/Plant number customer		M	an..35	tdpsc001.plnt		tdssc002.plnt	Key for search of contract
10	Schedule number new		M	n..9	tdpsc002.schn		tdssc002.scnn	an...9
11	Schedule date new		M	n..8	tdpsc002.isdt		tdssc002.isdt	
12	Schedule number old		M	n..9 an..9	tdpsc005.schn		 tdssc002.scno	
13	Schedule date old		M	n..8	tdpsc005.isdt		tdssc002.scdo	
14	Customer's item number		M	an..35	tdpsc002.item		tdssc002.cpno	Key for search of contract.
15	Supplier's item number		C	an..35	tdpsc002.cpno		tdssc002.txta	
16	Suppier's customer number		M	an..35	tccom020.ocus		tdssc002.txta	

SCHEDULE INHOUSE FORMAT					Mapping from Application Table Fields (out)		Mapping to Application Fields (in)	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
17	Order number		M	an..17	tdpsc029.cono		tdssc002.cono	
18	Contract number		M	n..6	tdpsc002.cont		tdssc002.txta	
19	Contract position number		M	n..2	tdpsc002.pono		tdssc002.txta	
20	Final delivery point		M	an..32	tdpsc001.delp		tdssc002.delp	
21	Department or employee coded		M	an..4	tdpsc001.fupc		tdssc002.fupc	
22	Measure unit		M	an..3	tdpsc001.cuqp		tdssc002.txta	Conversion (see below)
23	Weight		M	n..10	tiitm001.wght		tdssc002.txta	
24	Receiving pattern		M	an..2	tdpsc001.ship		tdssc002.ship	
25	Fabrication authorization period		C	n..2	tdpsc001.nfab		tdssc002.txta	
26	Raw material authorization period		C	n..2	tdpsc001.nraw		tdssc002.txta	
27	Authorization frequency		M	n1	tdpsc001.athi	Check of value range	tdssc051.athi	Check of value range
28	Item status code/use code		C	an1	tdpsc001.appc	Check of value range	tdssc002.appc	Check of value range
29	Additional destination of the customer’s consignee (coded)		C	an..14	tdpsc001.cwar		tdssc002.cdoc	
30	Last transaction date (recording date shipping note)		C	n..8	tdpsc001.lded		tdssc002.dtbk	
31	Shipping note number last receipt		C	an..9	tdpsc007.dino		tdssc002.ides	
32	Shipping note date last receipt		C	n..8	tdpsc007.didt		tdssc002.ldat	
33	Shipping note quantity last receipt		C	n..9	tdpsc001.ldeq		tdssc002.rcqt	
34	Schedule date type		M	an1	tdpsc001.deco	Check of value range	tdssc002.tdat	Check of value range

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
35	Date of annual reset (cums)		M	n..8	tdpsc001.rdat		tdssc002.rdat	
36	Actual cumulative quantity		M	n..10	tdpsc002.recq		tdssc002.intc	
37	Additional supplier		C	an..40	(“ “)	Not used at the moment	tdssc002.txta	
38	Additional item number		C	an..40	(“ “)	Not used at the moment	tdssc002.txta	
39	Cum before annual reset		C	an..40	(“ “)	Not used at the moment	tdssc002.iedi(1)	
40.	Actual cumulative quantity received		C	n..10	tdpsc001.cbar		tdssc002.iedi(2)	
41.	Backorder quantity		C	n..10	tdpsc002.back		tdssc002.back	
42.	Over delivery		C	n..10	tdpsc002.over		tdssc002.over	
43.	Line feed location		C	an..14	tdpsc001.lnfd		tdssc002.txta tdssc002.lnfd	
44.	Item Description		C	an..30	tiitm001.dsca		tdssc002.txta	
45.	Design Revision Number		C	an..20	(“ “)		tdssc002.txta	
46.	Shipping note time last receipt		C	n..4			tdssc002.txta	
47.	Data record end sign		M	an7	SA2_END		SA2_END	

Detailed description of Schedule, data record SA2 Schedule header

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Kind of data record**		(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA2’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA2’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA2’.

BAAN:

Position	**2**	Field format	**an..14**	Field status	**M**
Field name		**Message reference**		(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The numbering of the message reference, which has to be unambiguous by schedule, helps to control the chronological order of the schedules and the complete transmission.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA1.

Processing outgoing

EDI subsystem: Refer to data record SA1.

BAAN:

Position	**3 out**	Field format	**an..6**	Field status	**M**
Field name		**Supplier code**		(Key field out)	

Description: This field contains the identification code of the supplier on the customer side.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.suno to position.

Position	**3 in**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer**			(Key field in)	

Description: This field contains the network address of the customer.

Processing incoming

EDI subsystem: Transmission of the value from the message file.

BAAN: The network address determines in the table tcedi028 'Relations by network' the corresponding business partner and network. The business partner identification is mapped to the BAAN table field tcedi702.reno.

Position	**4**	Field format	**an..20**	Field status	**M**
Field name	**Key field delivery address**			(Key field out/in)	

Description: This field contains the key for the delivery address of the customer. The field consists of the *Plant* Code and the Code used for the *Final delivery point.* This position contains at maximum 20 characters.

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this key on the basis of the data in tdpsc001.plnt and tdpsc001.delp. The length of this position will not be fix. At first the BAAN System writes the data of tdpsc001.plnt to the position followed by a blank. After that the data of tdpsc001.delp will be added.

Example for possible formats of this position:

Position																		
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
P	P	P		D	D	D	D	D	D										
P	P	P	P	P	P		D	D	D	D	D	D	D	D	D	D	D	D	

Blank

unused Position

Result in the message:

...;”PPP DDDDDD”;...

...;”PPPPPP DDDDDDDDDDD”;

P means code for plant D means code for delivery point

Mapping of the generated value to position.

Processing incoming

EDI subsystem: The EDI subsystem generates this key on the basis of the data in *Plant number Customer* and *Final delivery point*.

The format of this position should be the same as above.

BAAN: The conversion tables for the address codes can be found in the BAAN table tcedi310 under the business partner and the *Organization* from data record SA1 and the *Address code-ID* from data record SA2. The BAAN internal address code of the generated *Key field delivery address* is determined in this BAAN table and mapped to the BAAN table field TFtdssc002.cdel.

Position	**5**	Field format	**an..35**	Field status	**M**
Field name	**Customer’s item number**			(Key field out/in)	

Description: This field contains the identification which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN field TFtdpsc002.item to position

Processing incoming

EDI subsystem:

BAAN: The conversion tables for the item numbers can be found in the BAAN table tcedi306 under the business partner and the *Organization* from data record SA1 and the *Item group-ID* from data record SA2. The BAAN internal item number of the transmitted *Customer’s item number* is determined in this BAAN table and mapped to the BAAN table field TFtdssc002.item.

Position	**6**	Field format	**an2**	Field status	**M**
Field name		**Qualifier address code**			

Description: This field contains the qualifier address code which is used to determine the delivery address from the value in position 4. This position must be filled with the fixed value ‘DP’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘DP’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘DP’.

BAAN: The qualifier must have been entered in the BAAN table TBtcedi218 (Address code IDs). It is taken into account when the BAAN internal delivery address code is determined from the value in position 4.

Position	**7**	Field format	**an2**	Field status	**M**
Field name		**Qualifier address type**			

Description: This field contains the qualifier address type which is used to determine the delivery address from the value in position 4. This position must be filled with the fixed value ‘ZZ’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘ZZ’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘ZZ’.

BAAN: The qualifier must have been entered in the BAAN table TBtcedi224 (Address types). It is taken into account when the BAAN internal delivery address code is determined from the value in position 4.

Position	**8**	Field format	**an2**	Field status	**M**
Field name		**Qualifier item number**			

Description: This field contains the qualifier item number which is used to determine the item number from the *Customer's item number* in position 5. This position must be filled with the constant value 'SA' ('SA' = supplier's item number).

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value 'SA'.

Processing incoming

EDI subsystem: This field is filled with the fixed value 'SA'.

BAAN: The qualifier must have been entered in the BAAN table TBtcedi232 (Item number IDs). It is taken into account when the BAAN internal item number is determined from the customer's item number in position 5.

Position	**9**	Field format	**an.35**	Field status	**M**
Field name		**Plant number customer**			

Description: This field contains the code of the customer plant to which the goods have to be delivered.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN field TFtdpsc001.plnt to position.

Processing incoming

EDI subsystem: The EDI subsystem uses this field to generate the *Key field delivery address.*

Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.plnt

Position	**10**	Field format	**an..9**	Field status	**M**
Field name		**Schedule number new**			

Description: The customer applies a new number to each schedule, to be able to identify them. This number is entered in this field.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.scnn to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.scnn.

Position	**11**	Field format	n..8	Field status	**M**
Field name		**Schedule date new**			

Description: This field contains the date when the schedule was created by the customer (format: YYYYMMDD).

Processing outgoing

BAAN:

EDI subsystem: Mapping of BAAN table field tdpsc002.isdt to position.

Processing incoming

BAAN: Transmission of the value from the transmission file.

EDI subsystem: Mapping to BAAN table field tdssc002.isdt

Position	**12**	Field format	**an..9**	Field status	**M**
Field name		**Schedule number old**			

Description: This field contains the number of the previous schedule for this item number.

The supplier can check the completeness of the schedule data by item number, because the customer transmits the old and the new schedule number.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc005.scnn to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.scno

Position	**13**	Field format	n..8	Field status	**M**
Field name		**Schedule date old**			

Description: This field contains the date when the previous schedule was generated by the customer (format: YYYYMMDD).

Processing outgoing

BAAN:

EDI subsystem: Mapping of BAAN table field tdpsc005.isdt to position.

Processing incoming

BAAN: Transmission of the value from the transmission file.

EDI subsystem: Mapping to BAAN table field tdssc002.scdo

Position	**14**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number**			

Description: This field contains the identification which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.item to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.cpno

Position	**15**	Field format	**an..35**	Field status	**C**
Field name		**Supplier's item number**			

Description: This field contains the identification which the supplier applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.cpno to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**16**	Field format	**an..35**	Field status	**M**
Field name		**Supplier's customer number**			

Description: This field contains the identification which the supplier applied to the customer.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tccom020.ocus to position.

Processing incoming

EDI subsystem:

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**17**	Field format	**an..17**	Field status	**C**
Field name		**Customer order number**			

Description: This field contains the identification which the customer applies to an oder or to a contract.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.cono to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.cono

Position	**18**	Field format	**an..6**	Field status	**M**
Field name		**Contract number**			

Description: delivery This field contains the unambiguous identification of the basic contract on the customer side.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tdpsc002.cont to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**19**	Field format	**n..2**	Field status	**M**
Field name		**Contract position number**			

Description: The field contains the unambiguous position number for the contract.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.pono to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**20**	Field format	**an..32**	Field status	**M**
Field name		**Final delivery point**			

Description: This field contains the customer key for the final delivery point at the plant of the customer, to which the goods are to be delivered.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.delp to position.

Processing incoming

EDI subsystem: The EDI subsystem uses this field to generate the *key field delivery address.*

Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.delp.

Position	**21**	Field format	**an..4**	Field status	**M**
Field name		**Department or employee coded**			

Description: This field contains the follow up code of the customer from the basic delivery contract.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tdpsc001.fucp to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping aauf BAAN-Feld tdssc002.fupc

Position	**22**	Field format	**an..3**	Field status	**M**
Field name		**Measure unit**			

Description: This field contains the encoded measure of the shipped quantity. The coding was carried out on the basis of ODETTE-Standard ODDC 25:

Millimeter	MMT
Centimeter	CMT
Meter	MTR
Kilometer	KMT
Square millimeter	MMK
Square centimeter	CMK
Square meter	MTK
Cubic millimeter	MMO
Cubic centimeter	CMO
Cubic meter	MTQ
Liter	DMQ
Gram	GRM
Kilogram	KGM
Metric ton	TON
Piece	PCE

If you want to transmit additional units of measurement, you need to enter them in the session tcedi2130m000 ‘Maintain units’ for the company **BEM**.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.cuqp to position. Used code and conversion table: TBtcedi442

Processing incoming

EDI subsystem: The EDI subsystem converts the transmitted values into the above mentioned values.

BAAN: Mapping to BAAN table field tdssc002.txta. Used code and conversion table: TBtcedi304

Position	**23**	Field format	**n..9**	Field status	**C**
Field name		**Weight**			

Description: This field contains the weight of the item in kilogram by above mentioned unit of measurement.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tiitm001.wght to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**24**	Field format	**an..2**	Field status	**M**
Field name		**Receiving pattern**			

Description: This field contains the code for the receiving pattern type of the basic delivery contract. When a schedule has to be generated according to VDA-Standard, the definition of the receiving pattern has to be entered into the table tcmcs074 (Maintain Receiving Pattern Description) as follows:
L = according to schedule date (*Gemäß Abrufdatum*)
T = on a daily basis (*täglich*)
W = on a weekly basis (*wöchentlich*)
M = on a monthly basis (*monatlich*)
or table of the customer (*Tabelle der Kunden*)

Processing outgoing

EDI subsystem:

BAAN: Mapping BAAN-Feld tdpsc001.ship to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdpsc002.ship.

Position	**25**	Field format	**n..2**	Field status	**C**
Field name		**Fabrication authorization period**			

Description: This field contains the number of months to determine the last date of the fabrication authorization period starting with the arrival date of the schedule.

Processing outgoing

EDI subsystem:

BAAN: Mapping BAAN-Feld tdpsc001.nfab to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**26**	Field format	**n..2**	Field status	**C**
Field name		**Raw material authorization period**			

Description: This field contains the number of months to determine the last date of the raw material authorization period starting with the arrival date of the schedule.

Processing outgoing

EDI subsystem:

BAAN: Mapping BAAN-Feld tdpsc001.nraw to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**27**	Field format	**n1**	Field status	**M**
Field name		**Authorization frequency**			

Description: This field contains encoded information about the unit of time in which the schedule authorization are transmitted.

Allowed values:

days	1
weeks	2
months	3

Processing outgoing

BAAN: Mapping of BAAN table field tdpsc001.athi to position.

EDI subsystem:

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc051.athi.

Position	**28**	Field format	**an1**	Field status	**C**
Field name		**Item status code/use code**			

Description: This field contains the encoded item status code/use code for the required item. The values of the VDA recommendation 4905 have to be used:

No information (*Keine Angaben*)	Blank
Series (*Serie*)	S
Substitute (*Ersatz allgemein*)	E
Series and substitute (*Serie und Ersatz*)	U
Trial (*Versuch*)	V
Pilot (*Pilot*)	P
Additional requirement (*Zusatzbedarf*)	Z
First sample (*Erstmuster*)	M
Sample (*Muster*)	Y
Other (*Sonstige*)	X

Processing outgoing

BAAN: Mapping of BAAN table field tdpsc001.appc to position.

EDI subsystem: Using the ODETTE-Standard you might need to convert the values.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file. Using the ODETTE-Standard you might need to convert the values.

BAAN: Mapping to BAAN table field tdssc002.appc.

Position	**29**	Field format	**an..14**	Field status	**C**
Field name	**Additional destination of the customer's consignee (coded)**				

Description: This field contains the storage location of the customer as additional information for the *final delivery point*.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.cwar to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.cdoc

Position	**30**	Field format	n..8	Field status	**C**
Field name	**Last transaction date**				

Description: The customer has booked all deliveries up to this date and taken them into account in his disposition (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.lded to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.dtbk

Position	**31**	Field format	**an..9**	Field status	**C**
Field name		**Shipping note number last receipt**			

Description: This field contains the shipping note number of the last at the customer's plant received and boooked delivery of this item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.dino to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.ides

Position	**32**	Field format	n..8	Field status	**C**
Field name		**Shipping note date last receipt**			

Description: This field contains the shipping note date of the last at the customer's plant received and booked delivery of this item (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.didt to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.ldat

Position	**33**	Field format	**n..9**	Field status	**C**
Field name		**Shipping note quantity last receipt**			

Description: This field contains the shipping note quantity of the last at the customer's plant received and booked delivery of this item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.ldeq to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.rcqt

Position	**34**	Field format	**an1**	Field status	**M**
Field name		**Schedule date type**			

Description: This field contains the identification of the *Schedule date type* in the schedule data (data record SA4). Allowed values:

1	=	delivery	At this date the required quantity has to be delivered at the customer's plant.
2	=	pick-up	At this date the required quantity has to be ready for pick-up at the supplier's plant.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.deco to position. Used code and conversion table: TBtcedi484

Processing incoming

EDI subsystem: The EDI subsystem sets the value on the basis of the data in the transmission file. If no value is transmitted, the system by default sets the value '1'.

BAAN: Mapping to BAAN table field tdssc002.tdat. Used code and conversion table: TBtcedi485.

Position	**35**	Field format	n..8	Field status	**M**
Field name		**Date of annual reset (cums)**			

Description: This field contains the date when the cumulative of the item was set to zero the last time (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.rdat to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.rdat

Position	**36**	Field format	**n..10**	Field status	**M**
Field name		**Actual cumulative quantity**			

Description: This field indicates the actual cumulative quantity for this item, which contains all booked deliveries from the last *date of annual reset (cums)* up to the day of the current schedule calculation.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.recq to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.intc

Position	**37**	Field format	**an..40**	Field status	**C**
Field name		**Additional supplier**			

Description: This field contains the identification which the customer applied to the additional supplier.

Processing outgoing

EDI subsystem:

BAAN: This position will not be filled.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**38**	Field format	**an..40**	Field status	**C**
Field name		**Additional item number**			

Description: This field contains an additional item number which the customer applied to the item.

Processing outgoing

EDI subsystem:

BAAN: This position is not used.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**39**	Field format	**an..40**	Field status	**C**
Field name		**Cum before annual reset**			

Description: This field contains the end date for the time fence of this item (format: YYYYMMDD)

Processing outgoing

EDI subsystem:

BAAN: This field is not used at the moment.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.iedi(1)

Position	**40**	Field format	**n..10**	Field status	**C**
Field name		**Actual cumulative quantity received**			

Description: This field contains the actual cumulative quantity for this item prior to the last reset to zero.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.cbar to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc029.iedi(2)

Position	**41**	Field format	**n..10**	Field status	**C**
Field name		**Backorder quantity**			

Description: This field contains the delivery instruction quantity of the demand from the backorder, which is transmitted with this schedule.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdssc002.back to position.

Processing incoming

EDI subsystem: If the transmission file contains a demand position with backorder flag (VDA4905 schedule date = 333333 in segment 513/514, ODETTE DELINS schedule quantity code = 3 in field DEL.7803), the EDI subsystem takes over the corresponding quantity of this position (refer to additional description of SA4).

BAAN: Mapping to BAAN table field tdssc002.back

Position	**42**	Field format	**n..10**	Field status	**C**
Field name		**Over delivery**			

Description: This field contains the over delivered quantity to be transmitted with this schedule.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdssc002.over to position.

Processing incoming

EDI subsystem: Only ODETTE DELINS:

If the transmission file contains a demand position with over delivery flag (field DST.6806), the EDI subsystem takes over the quantity of this position.

For VDA4905, this field has to be filled with a 0.

BAAN: Mapping to BAAN table field tdssc002.over

Position	**43**	Field format	**an..14**	Field status	**C**
Field name		**Line feed location**			

Description: This field contains the line feed location for this item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.lnfd to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta and tdssc002.lnfd.

Position	**44**	Field format	**an..30**	Field status	**C**
Field name		**Item Description**			

Description: This field contains the description of the item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tiitm001.dsca to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**45**	Field format	**an..17**	Field status	**C**
Field name		**Design Revision Number**			

Description: This field contains the design revision number of the item.

Processing outgoing

EDI subsystem:

BAAN: None

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**46**	Field format	**n..6**	Field status	**C**
Field name		**Shipping note time last receipt**			

Description: This field contains the description of the item.

Processing outgoing

EDI subsystem:

BAAN: None.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**47**	Field format	**an7**	Field status	**M**
Field name		**Data record end sign**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA2_END’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA2_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA2_END’.

BAAN: None

SA3 Schedule Text

Status : Conditional

Frequency : Once by item number

Description: This data record supports the transmission of schedule instructions for the supplier. These instructions are applied to the appropriate item, which is indicated in the previous data record SA2.

SCHEDUEL (LAB) INHOUSE FORMAT					**Mapping from Application Table Fields**		**Mapping to Application Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Kind of data record	O/I	M	an3	SA3		SA3	
2	Message reference	O/I	M	an..14	tcedi701.bano		tcedi702.bano	
3	Supplier number (out) Network address customer (in)	O I	M M	an..6 an..17	tdpsc001.suno		 tdssc002.cuno	
4	Key field delivery address	O/I	M	an..20	tdpsc001.plnt + tdpsc001.delp		tdssc002.cdel	
5	Customer’s item number		M	an..35	tdpsc002.item		tdssc002.item	
6	Free text 1		M	an..70	tdpsc002.txta		tdssc002.txta	
7	Free text 2		C	an..70	tdpsc002.txta		tdssc002.txta	
8	Free text 3		C	an..70	tdpsc002.txta		tdssc002.txta	
9	Data record end sign		M	an7	SA3_END		SA3_END	

Detailed description of Schedule, data record SA3 Schedule text

Position	**1**	Field format	**an3**	Field status	**M**
Field name	**Kind of data record**			(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA3’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA3’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA3’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name	**Message reference**			(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The numbering of the message reference, which has to be unambiguous by schedule, helps to control the chronological order of the schedules and the complete transmission.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**3 out**	Field format	**an..6**	Field status	**M**
Field name	**Supplier Number**			(Key field out/in)	

Description: This field contains the identification which the customer applied to the supplier.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Position	**3 in**	Field format	**an..17**	Field status	**M**
Field name	**Netzwerkadresse Kunde**			(Key field out/in)	

Description: This field contains the network address of the customer.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**4**	Field format	**an..20**	Field status	**M**
Field name	**Key field delivery address**			(Key field out/in)	

Description: This field contains the key for the delivery address of the customer.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**5**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number**			

Description: This field contains the identification, which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**6**	Field format	**an..70**	Field status	**M**
Field name		**Free text 1**			

Description: This field contains a free text with a maximum of 40 characters.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.txta to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**7**	Field format	**an..70**	Field status	**C**
Field name		**Free text 2**			

Description: This field contains a free text with a maximum of 40 characters.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.txta to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**8**	Field format	**an..70**	Field status	**C**
Field name		**Free text 3**			

Description: This field contains a free text with a maximum of 40 characters.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc002.txta to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**9**	Field format	**an7**	Field status	**M**
Field name		**Data record end sign**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA3_END’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA3_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA3_END’.

BAAN: None

SA4 Scheduling Lines

Status : Mandatory

Frequency: Repeatable by item number

Description: This kind of data record supports the transfer of the required item quantity, which is indicated in the previous data record SA2. The customer determines the quantities which are required at certain dates.

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**		**Mapping to Application Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1.	Kind of data record	O/I	M	an3	SA3		SA3	
2.	Message reference	O/I	M	an..14	tcedi701.bano		tcedi702.bano	
3.	Supplier number (out) Network address customer (in)	O I	M M	an..6 an..17	tdpsc001.suno		 dssc002.cuno	
4.	Key field delivery address	O/I	M	an..20	tdpsc001.plnt + tdpsc001.delp		tdssc002.cdel	
5.	Customer's item number		M	an..35	tdpsc002.item		tdssc002.item	
6.	Year		M	n..4	tdpsc003.year		tdssc003.year	
7.	Week		M	n..2	tdpsc003.week		tdssc003.week	
8.	Entry date		C	n..8	tdpsc003.dten	not used at the moment, here (...;;...)	tdssc003.dten	
9.	Requirement type		M	an1	tdpsc003.reqt	Check of value range	tdssc003.reqt	Check of value range
10.	Requirement frequency		M	an1	tdpsc003.reqf	Check of value range	tdssc003.reqf	Check of value range
11.	Schedule date		M	n..8	tdpsc003.dtwk		tdssc003.dtwk	
12.	Control field		M	an..9	0 (...;"0";...)		tdssc003.dqty	
13.	Schedule reference		M	n..5 an..35	tdpsc003.dref	For future use	tdssc003.dref	For future use
14.	Schedule quantity		M	n..9	tdpsc003.dqty		tdssc003.totq/dqty	
15.	Total quantity outstanding		C	n..9	tdpsc003.qtos		---	
16.	RAN - / DON Number		C	an..12	empty here (...;;...)		tdssc003.ican	
17.	Data record end sign		M	an7	SA4_END		SA4_END	

Detailed description of Schedule, data record SA4 Scheduling lines

Position	**1**	Field format	**an3**	Field status	**M**
Field name	**Kind of data record**			(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA4’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA4’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA4’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name	**Message reference**			(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The numbering of the message reference, which has to be unambiguous by schedule, helps to control the chronological order of the schedules and the complete transmission.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**3 out**	Field format	**an..6**	Field status	**M**
Field name	**Supplier number**			(Key field out/in)	

Description: This field contains the identification which the customer applied to the supplier.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Position	**3 in**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer**			(Key field out/in)	

Description: This field contains the network address of the customer.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**4**	Field format	**an..8**	Field status	**M**
Field name	**Key delivery field**			(Key field out/in)	

Description: This field contains the key for the delivery address of the customer.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**5**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number**			

Description: This field contains the identification which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**6**	Field format	**n..4**	Field status	**M**
Field name		**Year**			

Description: This field contains the requirement year of the schedule (format: YYYY).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.year to position.

Processing incoming

EDI subsystem: The EDI subsystem fills this field on the basis of the delivery date for this schedule position.

Special procedure in case of backorder and immediate requirement:

In this case you need to enter the year **0** into this field:

BAAN: Mapping to BAAN table field tdssc003.year

Position	**7**	Field format	**n..2**	Field status	**M**
Field name		**Week**			

Description: This field contains the calendar week.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.week to position.

Processing incoming

EDI subsystem: The EDI subsystem fills this field on the basis of the delivery date for this schedule position.

Special procedure in case of backorder and immediate requirement:
In case of backorder you need to enter the calendar week **1**.

In case of immediate requirement you need to enter the calendar week **2**.

Special procedure in case of zero requirement:
In this case you need to enter the current calendar week.

BAAN: Mapping to BAAN table field tdssc003.week

Position	**8**	Field format	**n..8**	Field status	**M**
Field name		**Entry date**			

Description: This field contains the date of the entry of this schedule position into BAAN (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.dten to position.

Processing incoming

EDI subsystem: The EDI subsystem enters the current date into this field.

BAAN: Mapping to BAAN table field tdssc003.dten

Position	**9**	Field format	**an1**	Field status	**M**
Field name		**Requirement type**			

Description: This field contains the key for the requirement type of this schedule position. Allowed values:

1 = immediate
2 = released
3 = planned
4 = forecast

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.reqt to position. Used code and conversion table: TBtcedi480.

Processing incoming

EDI subsystem: The EDI subsystem sets the key on the basis of the information in the transmission file.

Special procedure in case of backorder and immediate requirement:
In this case you need to enter the requirement type **1**.

Special procedure in case of zero requirement:
In this case you need to enter the requirement type **2**.

Allocation of requirement type on basis of VDA4905/1:
See above for zero requirement, backorder and immediate requirement.

All schedule positions up to the position with the schedule date 555555 receive requirement type **2** (released)

All schedule positions after the position with the schedule date 555555 receive the requirement type **2** (released) as well.

BAAN: Mapping to BAAN table field tdssc003.reqt. Used code and conversion table: TBtcedi481.

Position	**10**	Field format	**an1**	Field status	**M**
Field name		**Requirement frequency**			

Description: This field contains the key for the requirement frequency of this schedule position. The frequency indicates, if the requirement is on a daily, weekly or monthly basis.
Allowed values:
1 = on a daily basis
2 = on a weekly basis
3 = on a monthly basis

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.reqf to position. Used code and conversion table: TBtcedi482

Processing incoming

EDI subsystem: The EDI subsystem sets the key on the basis of the information in the transmission file.

Special procedure in case of backorder and immediate requirement:
In this case you need to enter the requirement type **2**.

Special procedure in case of zero requirement:
In this case you need to enter the requirement type **2**.

BAAN: Mapping to BAAN table field tdssc003.reqf. Used code and conversion table: TBtcedi483

Position	**11**	Field format	n..8	Field status	**M**
Field name		**Schedule date**			

Description: This field contains the schedule date for the requirement of this schedule position. It needs to be interpreted on the basis of the requirement type and frequency:

Requirement type 1: Schedule date = day of delivery

Other requirement type and
delivery frequency 1: Schedule date = day of delivery
delivery frequency 2: Schedule date = monday of delivery week
delivery frequency 3: Schedule date = 1st monday of delivery month

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.dtwk to position.

Processing incoming

EDI subsystem: The EDI subsystem generates the corresponding date on the basis of the above mentioned conditions.

BAAN: Mapping to BAAN table field tdssc003.dtwk

Position	**12**	Field format	**an..9**	Field status	**M**
Field name		**Regulation field**			

Description: This field supports the internal regulation of the BAAN EDI-Converter. The value ‘0’ needs to be entered into this field.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the value ‘0’ (...;“0“;...).

Processing incoming

EDI subsystem: The EDI subsystem will enter the value ‘0’ into this field.

BAAN: The value regulates the quantity calculation in the system.

Position **13**	Field format	**n..6 / an..35**	Field status	**C**
Field name	**Schedule reference**			

Description: This field is used in further applications.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.dref to position.

Processing incoming

EDI subsystem:

BAAN: Mapping to BAAN table field tdssc003.dref.

Position	**14**	Field format	**n..9**	Field status	**M**
Field name	**Schedule quantity**				

Description: This field contains the quantity of this schedule position.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.dqty to position.

Processing incoming

EDI subsystem: The EDI subsystem transfers the quantity of this schedule position into this field.

Special procedure in case of backorder and over delivery:
In this case the quantity needs to be entered additionaly in kind of data record 2.

Special procedure in case of zero requirement:
In this case the quantity **0** needs to be entered.

BAAN: Internal the value is mapped to the BAAN table field TFtdssc003.dqty and afterwards tdssc003.totq calculated.

Position	**15**	Field format	**n..9**	Field status	**C**
Field name		**Total quantity outstanding**			

Description: This field contains the outstanding schedule requirement in this time period (by week or month), to which this position is applied.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc003.qtos to position.

Processing incoming

EDI subsystem:

BAAN: On the incoming side this position is ignored.

Position	**16**	Field format	**an..12**	Field status	**C**
Field name		**RAN - / DON Number**			

Description: This field contains the RAN - / DON Number..

Processing outgoing

EDI subsystem: None.

BAAN: None; empty Position (...;;...)

Processing incoming

EDI subsystem: The EDI subsystem transfers the RAN - / DON - Number to this field.

BAAN: Mapping to BAAN table field tdssc003.ican

Position	**17**	Field format	**an7**	Field status	**M**
Field name		**Data record end sign**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA4_END’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA4_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA4_END’.

BAAN: None

Description of the requirement types for schedules in BEMIS (outgoing) (Proposal)

Requirement type	Presentation in BEMIS SA4	Conversion in VDA 4905, SA513
Zero requirement	No SA4 in message available	Schedule date = 222222
Backorder	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = Monday of current week Schedule quantity=QTY (QTY is the total of backorder plus immediate requirement) SA2_Backorder=Quantity_Backorder	If SA2_Backorder>0 Schedule date=333333 Schedule quantity= SA2_Backorder
Immediate requirement	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = Monday of current week Schedule quantity=QTY (QTY is the total of backorder plus immediate requirement)	If schedule quantity > SA2_Backorder: Schedule date=444444 Schedule quantity (Abruf-Menge) = Schedule quantity- SA2_Backorder
Daily requirement	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=1 (daily) Schedule date = YYYYMMDD (delivery date) Schedule quantity=QTY	Schedule date (Abruf-Datum) = date Schedule quantity (Abruf-Menge) = Schedule quantity
Change of requirement frequency	First time requirement frequency 2 or 3	Schedule date (Abruf-Datum) = 555555 Schedule quantity (Abruf-Menge) = 0

Requirement type	Presentation in BEMIS SA4	Conversion in VDA 4905, SA513
Weekly requirement	Year=YYYY Week=WW Requirement type=2, 3 or 4 possible Requirement frequency=2 Schedule date = YYYYMMDD (first day of week) Schedule quantity=QTY	Schedule date (Abruf-Datum) = YY00WW Schedule quantity (Abruf-Menge) = Schedule quantity
Monthly requirement	Year=YYYY Week=WW Requirement type=2, 3 or 4 Requirement frequency=3 (monthly) Schedule date = YYYYMMDD (first monday of month) Schedule quantity=QTY	Schedule date (Abruf-Datum) = YYMM00 Schedule quantity (Abruf-Menge) = Schedule quantity
Last devision	Change of group from SA4 to other SA	Schedule date (Abruf-Datum) = 000000
Over delivery	SA2_Over=Overdelivery_Quantity	no equivalant

Description of requirement types for schedules in BEMIS (outgoing) as on January 19, 1998 (proposed ODETTE requirement types) (Proposal)

Requirement type	Presentation in BEMIS SA4	Conversion in ODETTE
Zero requirement	No SA4 in message available	DEL_2803=0 DEL_6060=0 DEL_7803=6 DEL_6811=1
Backorder	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = Monday of current week Schedule quantity=QTY (QTY is the total of backorder plus immediate requirement) SA2_Backorder=Quantity_Backorder	DEL_2803=0 DEL_6060=SA2_Backorder DEL_7803=3 DEL_6811=1 DST_6806= - SA2_Backorder

Requirement type	Presentation in BEMIS SA4	Conversion in ODETTE
Immediate requirement	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = monday of current week Schedule quantity=QTY (QTY is the total of backorder plus immediate requirement)	If schedule quantity > SA2_Backorder: DEL_2803=0 DEL_6060=Schedule quantity-SA2_Backorder DEL_7803=4 DEL_6811=1
Daily requirement delivery authorization	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY	DEL_2803=From date DEL_2805=To date DEL_6060=Schedule quantity DEL_7803= DEL_6811=1 (delivery release)
Forecast daily requirement raw material authorizations	Year=YYYY Week=WW Requirement type=3 (planned) Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY	DEL_2803=From date DEL_2805=To date DEL_6060=Schedule quantity DEL_7803= DEL_6811=3
Forecast daily requirement	Year=YYYY Week=WW Requirement type=4 (forecast) Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY	DEL_2803=From date DEL_2805=To date DEL_6060=Schedule quantity DEL_7803= DEL_6811=4 (Forecast)
Weekly requirement delivery authorization	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=2 (weekly) Schedule date = YYYYMMDD (first date of week) Schedule quantity=QTY	DEL_2803 DEL_2805 or as date DEL_2836=YYWWJJWW DEL_6060=Schedule quantity DEL_7803= (From week = to week) DEL_6811=1

Requirement type	Presentation in BEMIS SA4	Conversion in ODETTE
Forecast weekly requirement raw material authorization	Year=YYYY Week=WW Requirement type=3 (planned) Requirement frequency=2 (weekly) Schedule date = YYYYMMDD (first date of week) Schedule quantity=QTY	DEL_2803 DEL_2805 or as date DEL_2836=YYWWJJWW DEL_6060=Schedule quantity DEL_7803= (From week = to week) DEL_6811=3
Forecast weekly requirement	Year=YYYY Week=WW Requirement type=4 (forecast) Requirement frequency=2 (weekly) Schedule date = YYYYMMDD (first date of week) Schedule quantity=QTY	DEL_2803 DEL_2805 or as date DEL_2836=YYWWJJWW DEL_6060=Schedule quantity DEL_7803= (From week = to week) DEL_6811=4
Monthly requirement delivery authorization	Year=YYYY Week=WW Requirement type= 1 (released) Requirement frequency=3 (monthly) Schedule date = YYYYMMDD (first monday in month) Schedule quantity=QTY	DEL_2803 DEL_2805 or as date DEL_2836=YYWWJJWW DEL_6060=Schedule quantity DEL_7803= (From week = Week_Start of month, To week = Week_End of month) DEL_6811=1
Forecast monthly requirement raw material authorization	Year=YYYY Week=WW Requirement type= 3 (planned) Requirement frequency=3 (monthly) Schedule date = YYYYMMDD (first monday in month) Schedule quantity=QTY	DEL_2803 DEL_2805 or as date DEL_2836=YYWWJJWW DEL_6060=Schedule quantity DEL_7803= (From week = to week) DEL_6811=3

Requirement type	Presentation in BEMIS SA4	Conversion in ODETTE
Forecast monthly requirement	Year=YYYY Week=WW Requirement type= 4 (forecast) Requirement frequency=3 (monthly) Schedule date = YYYYMMDD (first monday in month) Schedule quantity=QTY	DEL_2803 DEL_2805 or as date DEL_2836=YYWWJJWW DEL_6060=Schedule quantity DEL_7803= (From week = to week) DEL_6811=4
Over delivery	SA2_Over=Overdelivery_Quantity	DST_6806=SA2_Over

Description of requirement types for schedules in BEMIS (incoming) (Proposal)

Requirement type	Presentation in VDA 4905	Conversion in BEMIS SA4
Zero requirement	Schedule date=222222 Schedule quantity=0	Year=current year Week= current week Requirement type=2 (released) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=0
Backorder	Schedule date=333333 Schedule quantity= QTY (backorder)	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=QTY (backorder) SA2_Backorder=QTY (backorder)
Immediate requirement	Schedule date=444444 Schedule quantity=QTY (immediate requirement)	Year=0 Week=2 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=QTY (immediate requirement)
Daily requirement	Schedule date=YYMMDD Schedule quantity=QTY	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY
Change of requirement frequencies	Schedule date=555555 Schedule quantity=0	no equivalent

Requirement type	Presentation in VDA 4905	Conversion in BEMIS SA4
Weekly requirement	Schedule date=YY00WW Schedule quantity=QTY	Year=YYYY Week=WW Requirement type=3 (planned) Requirement frequency=2 (weekly) Schedule date = first date of week, that means monday of week) Schedule quantity=QTY
Weekly requirement from - to	Schedule date=YYWWWW Schedule quantity=QTY	For every week in range from to: Year=YYYY Week=WW (appropriate week in period) Requirement type=3 (planned) Requirement frequency=2 (weekly) Schedule date = first monday in week Schedule quantity=Schedule_Quantity/number of weeks If remainder an integer, value is added to weekly quantity of first period.
Monthly requirement	Schedule date=YYMM00 Schedule quantity=QTY	Year=YYYY Week=WW (week of first monday in month) Requirement type=3 (planned) Requirement frequency=3 (monthly) Schedule date = first monday in month Schedule quantity = Schedule quantity (Abruf-Menge)
Last devision	Schedule date=000000	no SA4
Over delivery	no equivalent	SA2_Overdelivery=DST_6806
Remainder of forecast quantity	Schedule date=999999	Year=YYYY Week=WW Requirement type=4 (forecast) Requirement frequency=3 (monthly) Schedule date = first monday in month of subsequent month regarding the last schedule date Schedule quantity=Schedule quantity (Abruf-Menge)

Description of the GM ‘s requirement types for schedules in BEMIS (incoming) (Proposal 8.4.1998)

Requirement type	Presentation in VDA 4905	Presentation in GM’s interpretation of the VDA 4905	Conversion in BEMIS SA4
Zero requirement	Schedule date=222222 Schedule quantity=0	Schedule date=222222 Schedule quantity=0 first Schedule date first Schedule Quantity (this means that these information above are the first date and quantity of the schedule in 513)	Year=current year Week= current week Requirement type=2 (released) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=0
Backorder	Schedule date=333333 Schedule quantity= QTY (backorder)	Schedule date=333333 Schedule quantity= QTY first Schedule date first Schedule Quantity (this means that these information above are the first date and quantity of the schedule in 513)	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = current date (GM first schedule date in 513) Schedule quantity=QTY (backorder) SA2_Backorder=QTY (backorder)
Immediate requirement	Schedule date=444444 Schedule quantity=QTY (immediate requirement)	not defined in GM’s interpretation of the VDA 4905 no equivalent	Year=0 Week=2 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=QTY (immediate requirement)

Requirement type	**Presentation in VDA 4905**	**Presentation in GM's interpretation of the VDA 4905**	**Conversion in BEMIS SA4**
Daily requirement	Schedule date=YYMMDD Schedule quantity=QTY	Schedule date=YYMMDD Schedule quantity=QTY	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY
Change of requirement frequencies	Schedule date=555555 Schedule quantity=0	not defined in GM's interpretation of the VDA 4905 no equivalent	no equivalent
Weekly requirement	Schedule date=YY00WW Schedule quantity=QTY	not defined in GM's interpretation of the VDA 4905 no equivalent	Year=YYYY Week=WW Requirement type=3 (planned) Requirement frequency=2 (weekly) Schedule date = first date of week, that means monday of week) Schedule quantity=QTY
Weekly requirement from - to	Schedule date=YYWWWW Schedule quantity=QTY	not defined in GM's interpretation of the VDA 4905 no equivalent	For every week in range from to: Year=YYYY Week=WW (appropriate week in period) Requirement type=3 (planned) Requirement frequency=2 (weekly) Schedule date = first monday in week Schedule quantity=Schedule_Quantity/number of weeks If remainder an integer, value is added to weekly quantity of first period.

Requirement type	**Presentation in VDA 4905**	**Presentation in GM's interpretation of the VDA 4905**	**Conversion in BEMIS SA4**
Monthly requirement	Schedule date=YYMM00 Schedule quantity=QTY	Schedule date=YYMM00 Schedule quantity=QTY	Year=YYYY Week=WW (week of first monday in month) Requirement type=3 (planned) Requirement frequency=3 (monthly) Schedule date = first monday in month Schedule quantity = Schedule quantity (Abruf-Menge)
Last devision	Schedule date=000000	Schedule date=YYMM00 Schedule quantity=QTY	no SA4
Over delivery	no equivalent	not defined in GM's interpretation of the VDA 4905 no equivalent	SA2_Overdelivery=DST_6806
Remainder of forecast quantity	Schedule date=999999	not defined in GM's interpretation of the VDA 4905 no equivalent	Year=YYYY Week=WW Requirement type=4 (forecast) Requirement frequency=3 (monthly) Schedule date = first monday in month of subsequent month regarding the last schedule date Schedule quantity=Schedule quantity (Abruf-Menge)

Requirement type	Presentation in VDA 4905	Presentation in GM's interpretation of the VDA 4905	Conversion in BEMIS SA4
Remainder quantity of the second month	no equivalent	Schedule date=YYMM00 Schedule quantity=QTY ninth Schedule date ninth Schedule Quantity	Year=YYYY Week=WW (Week of the first Monday in the month) Requirement type=3 (planned) Requirement frequency=3 (monthly) Schedule date = first monday in month Schedule quantity = Schedule quantity (Abruf-Menge) BAAN: these information have to be translated as follows: Year=YYYY Week=WW (the following week or the week of the eighth schedule date within GM's VDA message until zhe beginning of the next month this means until the first monday of the following month) Requirement type=3 (planned) Requirement frequency=2 (weekly) Schedule date = YYMMTT (Monday of the following week or of the following week of the eighth schedule date in GM's VDA message) Schedule Quantity = Schedule Quantity / Number of Weeks If remainder an integer, value is added to weekly quantity of first period.

Notice: GM's VDA 4905 does not know date formats like 333333, 444444, 555555, nor 999999

Sequence Number of the Schedule Date	Meaning	Remark
1	Backorder	description see above
2	determine requirement – over delivery = actual requirement	normal requirement, description see above
3	Daily or Weekly requirement	description see above
4	Daily or Weekly requirement	description see above
5	Daily or Weekly requirement	description see above
6	Daily or Weekly requirement	description see above
7	Daily or Weekly requirement	description see above
8	Daily or Weekly requirement	description see above
9	Remainder quantity of the second month	special case within GM's VDA interpretation, Remainder quantity of the second month
10	Monthly requirement	description see above
11	Monthly requirement	description see above
...		

Example:

```
1. "SA4";"LA000100000019";"005122";"
00000";"0000231";0;1;980227;"1";"2";980302;"0";;22;;"SA4_END"

2. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;11;980227;"2";"1";980309;"0";;222;;"SA4_END"

3. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;12;980227;"2";"1";980316;"0";;33;;"SA4_END"

4. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;13;980227;"2";"1";980323;"0";;333;;"SA4_END"

5. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;14;980227;"2";"1";980330;"0";;44;;"SA4_END"
6. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;15;980227;"2";"1";980406;"0";;444;;"SA4_END"

7. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;16;980227;"2";"1";980413;"0";;55;;"SA4_END"

8. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;17;980227;"2";"1";980420;"0";;555;;"SA4_END"

9. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;15;980227;"3";"3";980406;"0";;23;;"SA4_END"

10. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;19;980227;"3";"3";980504;"0";;2;;"SA4_END"
11. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;23;980227;"3";"3";980601;"0";;2;;"SA4_END"

12. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;28;980227;"3";"3";980706;"0";;2;;"SA4_END"

13. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;32;980227;"3";"3";980803;"0";;2;;"SA4_END"

14. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;37;980227;"3";"3";980907;"0";;2;;"SA4_END"

15. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;41;980227;"3";"3";981005;"0";;2;;"SA4_END"

16. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;45;980227;"3";"3";981102;"0";;2;;"SA4_END"

17. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;50;980227;"3";"3";981207;"0";;2;;"SA4_END"
```

```
18. "SA4";"LA000100000019";"005122";"
00000";"0000231";1999;02;980227;"3";"3";990104;"0";;2;;"SA4_END"
29. "SA4";"LA000100000019";"005122";"
00000";"0000231";1999;06;980227;"3";"3";990201;"0";;2;;"SA4_END"
```

The BAAN DLL has to translate Line 9 as follows:

```
9. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;15;980227;"3";"3";980406;"0";;23;;"SA4_END"
=>
9. "SA4";"LA000100000019";"005122";"
00000";"0000231";1998;18;980227;"3";"2";980427;"0";;23;;"SA4_END"
```

Refering to the example above there is only one remaining period for the month april:

Therefor an other example for the remaining quantity:

Sequence Number of the Schedule Date	Schedule Date	Meaning	Translation to BAAN
1	980323	Back Order	see above Back Order the schedule date is always the date of the monday of the week GM genarates its schedules. GM generates ist schedule each friday.
2	980330	Monday of the week	Schedule Date = Date in GM's Schedule
3	980406	Monday of the week	Schedule Date = Date in GM's Schedule
4	980413	Monday of the week	Schedule Date = Date in GM's Schedule
5	980420	Monday of the week	Schedule Date = Date in GM's Schedule
6	980427	Monday of the week	Schedule Date = Date in GM's Schedule
7	980504	Monday of the week	Schedule Date = Date in GM's Schedule
8	980511	Monday of the week	Schedule Date = Date in GM's Schedule
9	980500	remaining quantity of May for the period 18.5 to 31.5	BAAN has to generate tw entries: 1. Schedule Date: 980518 2. Schedule Date: 980527 Requirement Type =3 (planed) Requirement Frequenz=2 (weekly)
10	980600	Date of a month	see above: monthly requirement
11	980700	Date of a month	see above: monthly requirement
12	980800	Date of a month	see above: monthly requirement
...			
19			

Description of requirement types for schedules in BEMIS (incoming) as of January 19, 1998 (proposed ODETTE requirement types)

Requirement type	Presentation in DELINS	Proposed conversion in BEMIS SA4
Zero requirement	DEL_2803=0 DEL_6060=0 DEL_7803=6 DEL_6811=1	Year=current year Week= current week Requirement type=2 (released) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=0
Backorder	DEL_2803=0 DEL_6060=QTY (backorder) DEL_7803=3 DEL_6811=1	Year=0 Week=1 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity = QTY (backorder) SA2_Backorder = QTY (backorder)
Immediate requirement	DEL_2803=0 DEL_6060=QTY (immediate requirement) DEL_7803=4 DEL_6811=1	Year=0 Week=2 Requirement type=1 (immediate) Requirement frequency=2 (weekly) Schedule date = current date Schedule quantity=QTY (immediate requirement)
Daily requirement delivery authorization and forecast fabrication authorization	DEL_2803=YYMMDD DEL_2805=YYMMDD DEL_6060=QTY DEL_7803= DEL_6811=1,2	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY
Daily requirement forecast raw material authorization	DEL_2803=YYMMDD DEL_2805=YYMMDD DEL_6060=QTY DEL_7803= DEL_6811= 3	Year=YYYY Week=WW **Requirement type=3 (planned)** Requirement frequency=1 (daily) Schedule date = YYYYMMDD Schedule quantity=QTY

Requirement type	Presentation in DELINS	Proposed conversion in BEMIS SA4
Forecast daily requirement	DEL_2803=YYMMDD	Year=YYYY
	DEL_2805=YYMMDD	Week=WW
	DEL_6060=QTY	**Requirement type=4 (forecast)**
	DEL_7803=	Requirement frequency=1 (daily)
	DEL_6811=4	Schedule date = YYYYMMDD
		Schedule quantity=QTY
Weekly requirement delivery authorization and forecast fabrication authorization	DEL_2803=YYMMDD	Year=YYYY
	DEL_2805=YYMMDD	Week=WW
	DEL_6060=QTY	**Requirement type=2 (released)**
	DEL_7803=	Requirement frequency=2 (weekly)
	DEL_6811=1,2	Schedule date = first date of week, that means monday of week)
		Schedule quantity=QTY
Forecast weekly requirement raw material authorization	DEL_2803=YYMMDD	Year=YYYY
	DEL_2805=YYMMDD	Week=WW
	DEL_6060=QTY	**Requirement type=3 (planned)**
	DEL_7803=	Requirement frequency=2 (weekly)
	DEL_6811=3	Schedule date = first date of week, that means monday of week)
		Schedule quantity=QTY
Forecast weekly requirement	DEL_2803=YYMMDD	Year=YYYY
	DEL_2805=YYMMDD	Week=WW
	DEL_6060=QTY	**Requirement type=4 (forecast)**
	DEL_7803=	Requirement frequency=2 (weekly)
	DEL_6811=4	Schedule date = first date of week, that means monday of week)
		Schedule quantity=QTY

Requirement type	Presentation in DELINS	Proposed conversion in BEMIS SA4
Weekly requirement from – to delivery authorization and forecast fabrication authorization	DEL_2836=YYWWYYWW DEL_6060=QTY DEL_7803= DEL_6811=1,2	For every week in the range from – to: Year=YYYY Week=WW (appropriate week of the period) **Requirement type=2 (released)** Requirement frequency=2 (weekly) Schedule date = first monday in week Schedule quantity=Schedule_Quantity/number of weeks If remainder an integer, value is added to weekly quantity of first period.
Forecast weekly requirement from – to raw material authorization	DEL_2836=YYWWYYWW DEL_6060=QTY DEL_7803= DEL_6811=3	For every week in the range from – to: Year=YYYY Week=WW (appropriate week of that period) **Requirement type=3 (planned)** Requirement frequency=2 (weekly) Schedule date = first monday in week Schedule quantity=Schedule_quantity/number weeks If remainder an integer, value is added to weekly quantity of first period.
Forecast weekly requirement from – to	DEL_2836=YYWWYYWW DEL_6060=QTY DEL_7803= DEL_6811=4	For every week in the range from – to: Year=YYYY Week=WW (appropriate week of that period) **Requirement type=4 (forecast)** Requirement frequency=2 (weekly) Schedule date = first monday in week Schedule quantity=Schedule_quantity/ number of weeks If remainder an integer, value is added to weekly quantity of first period.

Requirement type	Presentation in DELINS	Proposed conversion in BEMIS SA4
Monthly requirement delivery authorization and forecast fabrication authorization	DEL_2836=YYMMDD DEL_2805=YYMMDD DEL_6060=QTY DEL_7803= DEL_6811=1,2	Year=YYYY Week=WW (week of first monday in month) **Requirement type=2 (released)** Requirement frequency=3 (monthly) Schedule date = first monday in month Schedule quantity=Schedule quantity (Abruf-Menge)
Forecast monthly requirement raw material authorization	DEL_2836=YYMMDD DEL_2805=YYMMDD DEL_6060=QTY DEL_7803= DEL_6811=3	Year=YYYY Week=WW (week of first monday in month) **Requirement type=3 (planned)** Requirement frequency=3 (monthly) Schedule date = First monday in month Schedule quantity=Schedule quantity (Abruf-Menge)
Forecast monthly requirement	DEL_2836=YYMMDD DEL_2805=YYMMDD DEL_6060=QTY DEL_7803= DEL_6811=4	Year=YYYY Week=WW (week of first monday in month) **Requirement type=4 (forecast)** Requirement frequency=3 (monthly) Schedule date = first monday in month Schedule quantity=Schedule quantity (Abruf-Menge)
Over delivery	DST_6806=Over delivery	SA2_Overdelivery=DST_6806

Description of requirement types for GM's DELFOR D97A in BEMIS (incoming) (Proposal)

Requirement type	Presentation in GM's DELFOR D97A	Proposed conversion in BEMIS SA4
released / weekly	SSC_4017 = 1 SSC_2013 = W QTY_6060 = quantity for the time periode DTM_2005 = 2 DTM_2380 = Monday of the week	Year=YYYY Week=WW Requirement type=2 (released) Requirement frequency=2 (weekly) Schedule date = DTM_2380 Schedule quantity=QTY_6060
released / week from - to	SSC_4017 = 1 SSC_2013 = F QTY_6060 = quantity for the time periode DTM_2005 = 2 DTM_2380 = Monday of the week DTM_2005 =159 DTM_2380 = Sunday of the last week	Year=YYYY Week=WW (the week of the current period) Requirement type=2 (released) Requirement frequency=2 (weekly) Schedule date = DTM_2380 (Monday of the week) Schedule quantity=QTY_6060 / numbers of recognized weeks within the related period if the remainder is an integer
planed / weekly	SSC_4017 = 4 SSC_2013 = W QTY_6060 = quantity for the time periode DTM_2005 = 2 DTM_2380 = Monday of the week	Year=YYYY Week=WW Requirement type=3 (planed) Requirement frequency=2 (weekly) Schedule date = DTM_2380 Schedule quantity=QTY_6060
planed / week from - to	SSC_4017 = 4 SSC_2013 = F QTY_6060 = quantity for the time periode DTM_2005 = 2 DTM_2380 = Monday of the week DTM_2005 =159 DTM_2380 = Sunday of the last week	Year=YYYY Week=WW (the week of the current period) Requirement type=3 (planed) Requirement frequency=2 (weekly) Schedule date = DTM_2380 (Monday of the week) Schedule quantity=QTY_6060 /numbers of recognized weeks within the related period if the remainder is an integer

Some remarks to the segment groups 17 an 18 of GM's DELFOR D97A:

Frequency:

1 Weekly Period this means: start date of the period only

2 Free Period this means: start and end date

3 the start date is always a monday

4 the end date is always a Sunday

5 there is always chronological sequence of the requirements

Requirement typs:

1 released

2 planed

SA5 Schedule Authorizations - *Freigabeinformationen*

Status : Conditional

Frequency: Repeatable by item number

Description: This kind of data record is used to transmit schedule authorization data. These data refer to the appropriate item number which is indicated in the previous data record SA2.

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**		**Mapping to Application Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1.	Kind of data record	O/I	M	an3	SA5		SA5	
2.	Message reference	O/I	M	an..14	tcedi701.bano		tcedi702.bano	
3.	Supplier number (out) Network address customer (in)	O I	M M	an..6 an..17	tdpsc001.suno		 dssc002.cuno	
4.	Key field delivery address	O/I	M	an..20	tdpsc001.plnt + tdpsc001.delp		tdssc002.cdel	
5.	Customer's item number		M	an..35	tdpsc002.item		tdssc002.item	
6.	Authorization code		C	an2	tdpsc051.auth		tdssc051.auth	Check of value range
7.	Start horizon date		C	n..8	tdpsc051.cfsd		tdssc051.cfsd	
8.	End horizon date		C	n..8	tdpsc051.cfed		tdssc051.cfed	
9.	Cumulative quantity this release		C	n..10	tdpsc051.cqtr		tdssc051.cqtr	
10.	Data record end sign		C	an7	SA5_END		SA5_END	

Detailed description of Schedule, data record SA5 Schedule authorizations

Position	**1**	Field format	**an3**	Field status	**M**
Field name	**Kind of data record**			(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA5’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA5’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA5’.

BAAN: keine

Position	**2**	Field format	**an..14**	Field status	**M**
Field name	**Message reference**			(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The message reference, which has to be unambiguous by schedule, helps to control the chronological order of the schedules and the complete transmission.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**3 out**	Field format	**an..6**	Field status	**M**
Field name	**Supplier number**			(Key field out/in)	

Description: This field contains the identification which the customer applied to the supplier.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Position	**3 in**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer**			(Key field out/in)	

Description: This field contains the network address of the customer.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**4**	Field format	**an..20**	Field status	**M**
Field name	**Key field delivery address**			(Key field out/in)	

Description: This field contains the key for the delivery address of the customer.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**5**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number**			

Description: This field contains the identification which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**6**	Field format	**an2**	Field status	**C**
Field name		**Authorization code**			

Description: This field indicates, which authorization code types are transmitted by this data record. Allowed values:
FAB = fabrication authorization
RAW = raw material authorization

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc051.auth to position.

Processing incoming

EDI subsystem: The EDI subsystem enters the above mentioned values into this field on the basis of the data in the transmission file.

BAAN: Mapping to BAAN table field tdssc051.auth

Position	**7**	Field format	n..8	Field status	**C**
Field name		**Start horizon date**			

Description: All schedules from the customer of the range from Start horizon date to End horizon date are obligatory and can be authorized by the supplier for fabrication and raw material obtaining. This field contains the starting date (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc051.cfsd to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc051.cfsd

Position	**8**	Field format	n..8	Field status	**C**
Field name		**End horizon date**			

Description: All schedules from the customer of the range from Start horizon date to End horizon date are obligatory and can be authorized by the supplier for fabrication and raw material obtaining. This field contains the end date (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc051.cfed to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc051.cfed

Position	**9**	Field format	**n..10**	Field status	**C**
Field name		**Cumulative quantity this release**			

Description: All schedules from the customer, which total quantity is less than the cumulated released stock, are obligatory and can be authorized by the supplier for fabrication and raw material obtaining.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc051.cqtr to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc051.cqtr

Position	**10**	Field format	**an7**	Field status	**M**
Field name		**Satzendekennung**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA5_END’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA5_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA5_END’.

BAAN: None

SA6 Schedule Packaging Data – *Packmitteldaten*

Status: Optional

Frequency: Up to 4 times by item number outgoing
Up to n times by item number incoming

BAAN IV purchase contracts contain a 4 level packaging structure, which can be transmitted by SA6. The first level represents the outer packaging, the other levels represent intermediate packaging and smaller packagings (level 4).

Description: This kind of data record supports the transmission of packaging information, which can be used for the required item of the previous data record of the data record SA2 (item number, capacity): This kind of data record is repeatable if several packagings have to be used.

1 Packaging level (outgoing) - All packagings (incoming)

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**		**Mapping to Application Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Kind of data record	J	M	an3	SA6	Evaluation expression PI1	SA6	
2	Message reference	J	M	an..14	tcedi701.bano		tcedi702.bano	
3	Supplier number (out) Network address customer (in)	J J	M M	an..6 an..17	tdpsc001.suno		tdssc002.cuno	
4	Key field delivery address	J	M	an..20	tdpsc001.plnt + tdpsc001.delp		tdssc002.cdel	
5	Customer’s item number		M	an..35	tdpsc002.item		tdssc002.item	
6	Customer’s item number for packaging 1		M	an..35	tdpsc001.utyp	Evaluation expression PI1	tdssc002.txta	
7	Supplier’s item number for packaging 1		C	an..35	tdpsc001.utyp	Evaluation expression PI1	tdssc002.txta	
8	Quantity of articles in package 1		M	n..9	tdpsc001.uqty	Evaluation expression PI1	tdssc002.txta	
9	Flag ‘Full packaging only 1’		M	n1	tdpsc001.uful	Evaluation expression PI1	Blank	
10	Data record end sign		M	an7	SA6_END		SA6_END	

2 Packaging level (outgoing)

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1	Kind of data record	J	M	an3		Evaluation expression PI2
2	Message reference	J	M	an..14	tcedi701.bano	
3	Supplier number (out) Network address customer (in)	J J	M M	an..6 an..17	tdpsc001.suno	
4	Key field delivery address	J	M	an..20	tdpsc001.plnt + tdpsc001.delp	
5	Customer’s item number		M	an..35	tdpsc002.item	
6	Customer’s item number for packaging 2		M	an..35	tdpsc001.mtyp	Evaluation expression PI2
7	Supplier’s item number for packaging 2		C	an..35	tdpsc001.mtyp	Evaluation expression PI2
8	Quantity of articles in package 2		M	n..9	tdpsc001.mqty	Evaluation expression PI2
9	Flag ‘Full packaging only 2’		M	n1	tdpsc001.mful	Evaluation expression PI2
10	Data record end sign		M	an7		

3 Packaging level (outgoing)

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1	Kind of data record	J	M	an3		Evaluation expression PI3
2	Message reference	J	M	an..14	tcedi701.bano	
3	Supplier number (out) Network address customer (in)	J J	M M	an..6 an..17	tdpsc001.suno	
4	Key field delivery address	J	M	an..20	tdpsc001.plnt + tdpsc001.delp	
5	Customer’s item number		M	an..35	tdpsc002.item	
6	Customer’s item number for packaging 3		M	an..35	tdpsc001.btyp	Evaluation expression PI3
7	Supplier’s item number for packaging 3		C	an..25	tdpsc001.btyp	Evaluation expression PI3
8	Quantity of articles in package 3		M	n..9	tdpsc001.bqty	Evaluation expression PI3
9	Flag ‘Full packaging only 3’		M	n1	tdpsc001.bful	Evaluation expression PI3
10	Data record end sign		M	an7		

4 Packaging level (outgoing)

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1	Kind of data record	J	M	an3		Evaluation expression PI4
2	Message reference	J	M	an..14	tcedi701.bano	
3	Supplier number (out) Network address customer (in)	J J	M M	an..6 an..17	tdpsc001.suno	
4	Key field delivery address	J	M	an..20	tdpsc001.plnt + tdpsc001.delp	
5	Customer’s item number		M	an..35	tdpsc002.item	
6	Customer’s item number for packaging 4		M	an..35	tdpsc001.atyp	Evaluation expression PI4
7	Supplier’s item number for packaging 4		C	an..35	tdpsc001.atyp	Evaluation expression PI4
8	Quantity of articles in package 4		M	n..9	tdpsc001.aqty	Evaluation expression PI4
9	Flag ‘Full packaging only 4’		M	n1	tdpsc001.aful	Evaluation expression PI4
10	Data record end sign		M	an7		

Detailed description of Schedule, data record SA6 Schedule packaging data

Position	**1**	Field format	**an3**	Field status	**M**
Field name	**Kind of data record**			(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA6’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA6’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA6’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name	**Message reference**			(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The numbering of the message reference, which has to be unambiguous by shipment notification, helps to control the chronological order of the schedules and the complete transmission.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**3 out**	Field format	**an..6**	Field status	**M**
Field name	**Supplier number**			(Key field out/in)	

Description: This field contains the identification which the customer applied to the supplier.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Position	**3 in**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer**			(Key field out/in)	

Description: This field contains the network address of the customer.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**4**	Field format	**an..20**	Field status	**M**
Field name	**Key field delivery address**			(Key field out/in)	

Description: This field contains the key for the delivery address of the customer.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**5**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number**			

Description: This field contains the identification which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**6**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number for packaging**			

Description: This field contains the identification which the customer applied to the packaging for the required item.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field TFtdpsc001.utyp/mtyp/btyp/atyp to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**7**	Field format	**an..35**	Field status	**C**
Field name		**Supplier's item number for packaging**			

Description: This field contains the identification number which the supplier applied to the packaging for the required item. This field contains the same values as the previous position, because in BAAN there is only one article number by packaging available.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field TFtdpsc001.utyp/mtyp/btyp/atyp to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**8**	Field format	**n..9**	Field status	**M**
Field name		**Quantity of articles in package**			

Description: This field contains information about the capacity of the packaging.

The factor indicates how many units of the next smaller packaging are or can be included in this packaging.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field TFtdpsc001.uqty/mqty/bqty/aqty to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**9**	Field format	**n1**	Field status	**M**
Field name		**Flag ‘Full packaging only’**			

Description: This field indicates if the packaging has to be filled completely.
‘1’ = Yes (packaging has to be full)
‘2’ = No

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc001.uful/mful/bful/aful to position.

Processing incoming

EDI subsystem:

BAAN: This field is not used at the moment.

Position	**10**	Field format	**an7**	Field status	**M**
Field name		**Data record end sign**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA6_END'.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA6_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA6_END’.

BAAN: None

SA7 Schedule Delivery History - *Historie LieferScheindaten*

Status: Conditional

Frequency: Once by item number

Description: This kind of data record supports the transmission of information about the last deliveries of the required item. The data record contains the shipping note number and the shipping note date (special ODETTE DELINS requisition).

SCHEDULE INHOUSE FORMAT					**Mapping from Application Table Fields**		**Mapping to Application Fields**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Kind of data record	O/I	M	an3	SA7		SA7	
2	Message reference	O/I	M	an..14	tcedi701.bano		tcedi702.bano	
3	Supplier number (out) Network address customer (in)	O I	M M	an..6 an..17	tdpsc001.suno		 tdssc002.cuno	
4	Key field delivery address	O/I	M	an..20	tdpsc001.plnt + tdpsc001.delp		tdssc029.cdel	
5	Customer's item number		M	an..35	tdpsc002.item		tdssc002.item	
6	Number of second last shipping note (receipt)		M	an..9	tdpsc007.dino		tdssc002.txta	
7	Date of second last shipping note (receipt)		M	n..8	tdpsc007.didt		tdssc002.txta	
8	Number of third last shipping note (receipt)		C	an..9	tdpsc007.dino		tdssc002.txta	
9	Date of third last shipping note (receipt)		C	n..8	tdpsc007.didt		tdssc002.txta	
10.	Quantity of the second last shipping note (receipt)		C	n..15	tdpsc007.rqty		tdssc002.txta	
11.	Quantity of third last shipping note (receipt)		C	n..15	tdpsc007.rqty		tdssc002.txta	
12.	Data record end sign		M	an7	SA7_END		SA7_END	

Detailed description of Schedule, data record SA7 Schedule Delivery History

Position	**1**	Field format	**an3**	Field status	**M**
Field name	**Kind of data record**			(Key field out/in)	

Description: This field identifies the kind of data record in the message block. It contains the fixed value ‘SA7’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA7’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA7’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name	**Message reference**			(Key field out/in)	

Description: This field identifies all connected data records of one schedule. The numbering of the message reference, which has to be unambiguous by schedule, helps to control the chronological order of the schedules and the complete transmission.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**3 out**	Field format	**an..6**	Field status	**M**
Field name	**Supplier number**			(Key field out/in)	

Description: This field contains the identification number which the customer applied to the supplier.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Position	**3 in**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer**			(Key field out/in)	

Description: This field contains the network address of the customer.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**4**	Field format	**an..20**	Field status	**M**
Field name	**Key field delivery address**			(Key field out/in)	

Description: This field contains the key for the delivery address of the customer.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**5**	Field format	**an..35**	Field status	**M**
Field name		**Customer's item number**			

Description: This field contains the identification number, which the customer applied to the required item.

Processing outgoing

EDI subsystem:

BAAN: Refer to data record SA2.

Processing incoming

EDI subsystem: Refer to data record SA2.

BAAN: Refer to data record SA2.

Position	**6**	Field format	**an..9**	Field status	**M**
Field name		**Number of second last shipping note**			

Description: This field contains the number of the shipping note of the second last delivery of this item which the customer received and booked.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.dino to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta.

Position	**7**	Field format	n..8	Field status	**M**
Field name		**Date of second last shipping note**			

Description: This field contains the date of the shipping note of the second last delivery of this item which the customer received and booked (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.didt to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**8**	Field format	**an..9**	Field status	**C**
Field name		**Number of third last shipping note**			

Description: This field contains the number of the shipping note of the third last delivery of this item which the customer received and booked.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.dino to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**9**	Field format	n..8	Field status	**C**
Field name		**Date of the third last shipping note**			

Description: This field contains the date of the shipping note of the third last delivery of this item which the customer received and booked (format: YYYYMMDD).

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.didt to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**10**	Field format	n..15	Field status	**C**
Field name		**Quantity of the second last shipping note (receipt)**			

Description: This field contains the quantity of the shipping note of the second last delivery of this item which the customer received and booked.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.didt to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**11**	Field format	n..15	Field status	**C**
Field name		**Quantity of the third last shipping note (receipt)**			

Description: This field contains the quantity of the shipping note of the third last delivery of this item which the customer received and booked.

Processing outgoing

EDI subsystem:

BAAN: Mapping of BAAN table field tdpsc007.didt to position.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file.

BAAN: Mapping to BAAN table field tdssc002.txta

Position	**12**	Field format	**an7**	Field status	**M**
Field name		**Data record end sign**			

Description: This field indicates the end of the data record. It contains the fixed value ‘SA7_END’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA7_END’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA7_END’.

BAAN: None

3 Glossary of terms and abbreviations

ABRUF	Schedule
Appl	Application
ANSI	American National Standards Organization
BEM	Baan Electronic Message - abbreviated form of BEMIS used with the definition of the EDI organization
BEMIS	Baan Electronic Message Interchange System
Business partner (BP)	Customer or supplier
C	Conditional, that is, optional message
Defaults.edi	Export file detailing master EDI data
DELINS	Odette Delivery Instruction (Schedule)
Directory	Folder
EDI	Electronic Data Interchange; electronic exchange of documents in standard formats
EDIFACT	Electronic Data Exchange For Administration, Commerce and Transport. An ISO standard.
ELP	External Logistic partner
Evaluation expression	If statement in the conversion setup for outgoing messages
ISO	International Standards Organization
ISO 4217	Code table
M	Mandatory (compulsory) message
MAIS	General Motor's interpretation of the subset of EDIFACT DELJIT Message
Messg	Message
Network address	Folder (directory) path on network
ODDC	Odette Code Table
ODDC25	Odette Code Table 25
ODETTE	European standard for electronic data exchange
Org	Organization, that is, system
SCH	Supply Chain
Semaphore	Method to show a status using files with zero length

Translation	Conversion of one data format to another, for example Baan in-house data format to ODETTE
VAT	Value Added Tax (tax on turnover; sales tax)
VDA	Standard used for electronic data exchange in Germany
X12	Standard used for electronic data exchange in the United States

4 Appendix

Remarks about the conversion of plant/final delivery point in delivery address

When transmitting the messages:

- VDA4905 (Schedule incoming)
- VDA 4915 (Delivery schedule incoming)
- VDA 4916 (Production sequence requirement incoming)

the features plant and final delivery point are expected respectively transmitted as unambiguous identification of the delivery point. BAAN uses a unambiguous delivery address without making any distinctions about final delivery points. Therefore, it is neccessary for the above mentioned incoming messages to carry out a conversion of the combination plant/final delivery point into a certain delivery address in BAAN.

The following code- and conversion tables have to be used for the conversion:

1 Address types (tcedi214)

```
Maintain address types                                  Company: 60

Organization      : BEM BAAN Electr. Message Int. Sys.

Code in Message     Description

ZZ                  Delivery address
                                                        Choice: ..
```

These parameters need to be entered once by organisation (BEM).

2 Address Code IDs (tcedi218)

```
Maintain Address Code IDs                                  Firma: 600

Organization      : BEM BAAN Electr. Message Int. Sys.

Code in Message     Description

DP                  Delivery address
                                                           Choice: ..
```

These parameters need to be entered once by organization (BEM).

3 Delivery address codes by customer incoming (tcedi310)

```
Maintain Conv. Of Del. Addr. Codes by Customer (in)   Company: 600

Customer          : 000001    Volkswagen AG
Organization      :    BEM    Verband der deutschen autoind.
Address Code ID   : DP        Delivery Address

Code in Message                   Code in Application

01601QC                           001 Werk Wolfsburg Tor1
01602QC                           002 Werk Wolfsburg Tor2

                                                    Choice: ..
```

The conversion of the plant/final delivery point into the delivery address (code in application) is entered into this table refering to one customer. The parameters have to be entered for every plant/final delivery point combination of one customer.

Evaluation expressions

Evaluation expression	Evaluation text	KIND OF DATA RECORD	POSITION
TXT	No	SA3	7
AUTH	tdpsc051.auth = tdpsc000.faba or tdpsc051.auth = tdpsc000.rawa	SA5	6
PI1	tdpsc001.utyp > " " or better strip(tdpsc001.utyp)<>""	SA6	see above
PI2	tdpsc001.mtyp > " " or better strip(tdpsc001.mtyp)<>""	SA6	see above
PI3	tdpsc001.btyp > " " or better strip(tdpsc001.btyp)<>""	SA6	see above
PI4	tdpsc001.atyp > " " or better strip(tdpsc001.atyp)<>""	SA6	see above
SC4	tdpsc003.dten(7;2) > "00"	SA4	8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7
Q1	tdpsc003.dqty(1) > 0	SA4	15/1
Q2	tdpsc003.dqty(2) > 0	SA4	15/2
Q3	tdpsc003.dqty(3) > 0	SA4	15/3
Q4	tdpsc003.dqty(4) > 0	SA4	15/4
Q5	tdpsc003.dqty(5) > 0	SA4	15/5
Q6	tdpsc003.dqty(6) > 0	SA4	15/6
Q7	tdpsc003.dqty(7) > 0	SA4	15/7

Sample file

"SA1";"F8109904210015";"n900200";"F810";"LAB-IO";"BEMIS";"";"Auftr.ref.";19990421;1202;"Nach.ref. alt";"SA1_END"

"SA2";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";"DP";"ZZ";"SA";"DANCKERT-WERK";100017;19980820;0;;"HD002";"HD002-supplier";"5679900";"9999";100010;10;"";"";"PCE";17;"";2;28;2;"";"DDD";19980820;"";;5;"1";;0;"";"";"";0;100;0;"";"HD002";"";;"SA2_END"

"SA4";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";1998;34;;"2";"1";19980821;"0";0;5;1;;"SA4_END"

"SA4";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";1998;35;;"2";"2";19980824;"0";0;12;0;1;"SA4_END"

"SA5";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";"FA";19980819;19980830;1;"SA5_END"

"SA5";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";"RA";19980819;19980830;1;"SA5_END"

"SA6";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";"V 001 001 001";"V 001 001 001";1;1;"SA6_END"

"SA7";"F8109904210015";"900200";"DANCKERT-WERK";"HD002";"90000";;"";;0;0;"SA7_END