BAAN IVc3scc1

Definition of BEMIS 1.1a File for the Message Type ELP Shipment VA36

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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 in-house data formats, which the BAAN Electronic Message Interchange System BEMIS requires as interfaces to the EDI subsystem.

The document is intended for developers of EDI subsystems who want to make an interface with BAAN IV. Furthermore, this documentation helps consultants, who want to implement an interface on this basis, to check the correct data contents of the transmission files. Important fields are identified with both the English and German terms, to assist German-language speakers using this documentation.

This booklet describes the EDI message ELP shipment (incoming); that is, the message which an external logistic provider sends to the supplier as shipment notification.

Chapter 2 describes the structure of the interface file, the different record types within the file and the used key fields.

Chapter 3 details every message record type. This chapter contains an overview table with the corresponding BAAN table fields. In addition, every single field is described in a more detailed way.

A glossary of terms and abbreviations is provided at the end of the book.

1 Introduction: record types

This chapter details the Baan Electronic Message in-house format “ELP shipment.”

Available record types of the message type ELP shipment

The use of the following record types is mandatory (M), when the external logistic provider is supposed to receive information of a shipment notification by means of the message VDA 4913 (Remote transmission of shipping note and transport data*: Datenfernübertragung von Lieferschein- und Transportdaten*) transaction type 36.

The message ELP shipment (in-house format) consists of the following records:

ID	Status	Name
SA1	M	Message Overhead (*Nachrichten-Vorsatz*)
SA3	M	Shipping Note Header (*Lieferschein-Kopf*)
SA4	M	Shipping Note Position (*Lieferschein-Position*)
SA5	M	Packaging Position (*Packmittel-Position*)

Structure of the message ELP shipment (in-house format)

The following record structure is used for the message type BEMIS ELP shipment.

Level	Record ID	Status	Name
1	SA1	M/1	Message Overhead (*Nachrichten-Vorsatz)*
3	SA3	M/N	Shipping Note Header (*Lieferschein-Kopf*)
4	SA4	M/N	Shipping Note Position (*Lieferschein-Position)*
5	SA5	K/N	Packaging Position (*Packmittel-Position*)

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.

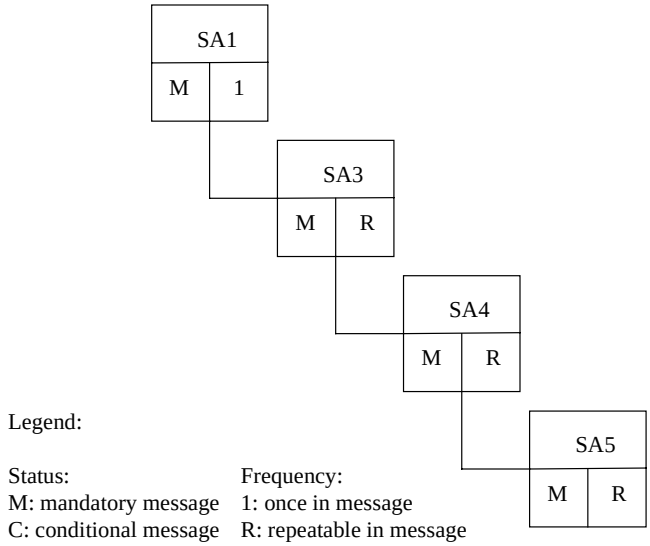


Figure 1, Branching diagram

For example, for one message, which consists of one shipment with two shipping notes, each with several shipping note positions and each with several packaging positions, the BEMIS file has the following structure:

SA1 ...	Message Overhead
SA3 ...	Shipping Note Header 1
SA4 ...	Shipping Note Position 11
SA5 ...	Packaging Position 111
SA5 ...	Packaging Position 112
SA4 ...	Shipping Note Position 12
SA5 ...	Packaging Position 121
SA3 ...	Shipping Note Header 2
SA4 ...	Shipping Note Position 21
SA5 ...	Packaging Position 211
SA5 ...	Packaging Position 212
....	
SA1	Message Overhead New Message

ELP shipment - Key Fields

The following structure of the key fields is used to determine the corresponding records of a shipment notification:

Record type	Key field 1	Key field 2	Key field 3	Key field 4
SA1	Message Reference	Network address customer		
SA3	Message Reference	Network address customer	Shipping Note No.	
SA4	Message Reference	Network address customer	Shipping Note No.	Shipping Note Position
SA5	Message Reference	Network address customer	Shipping Note No.	Shipping Note Position

Network directories

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

/auto3/baanIV/bemis/lavisedl

BAAN will also create the following subdirectories:

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

The above directories have the following function:

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

The file name of the BEMIS in-house format file of the ELP shipment, which is described in this documentation, is defined in the following way:

Direction	File name	Network directory
incoming	LFAEDL.IN	**.../appl_to**

BEMIS Messages - Conventions

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

- The length of a record can vary
- The message record must consist of all fields, even if not every field contains a value
- The fields in the file are to be separated by a ; .
- The text values of the fields have to be put into ““
- The numerical values must not be put into ““
- Every message record starts with “SAx“
- Every message record ends with “SAx_END“

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

On the outgoing side numerical fields with decimal places are used in the following way: If the decimal places equal the value of zero these decimal places will not be written. For example, in the interface file the internal value ‘13.00‘ is indicated as 13.

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

ELP SHIPMENT INHOUSE FORMAT				
Pos.	FIELD NAME	Key	ST	FM

The first block of the table describes the format of a record type:

Pos.	Position of the field in the data record
Field Name	Name 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
	alphanumerical fields have to be put in inverted commas (“.... “)

Mapping from Application Table Fields (Incoming)	
Table Field	Action

The second block of the table describes the corresponding table field for outgoing messages in BAAN IV as well as the possible special actions that are taken during the processing of the messages.

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

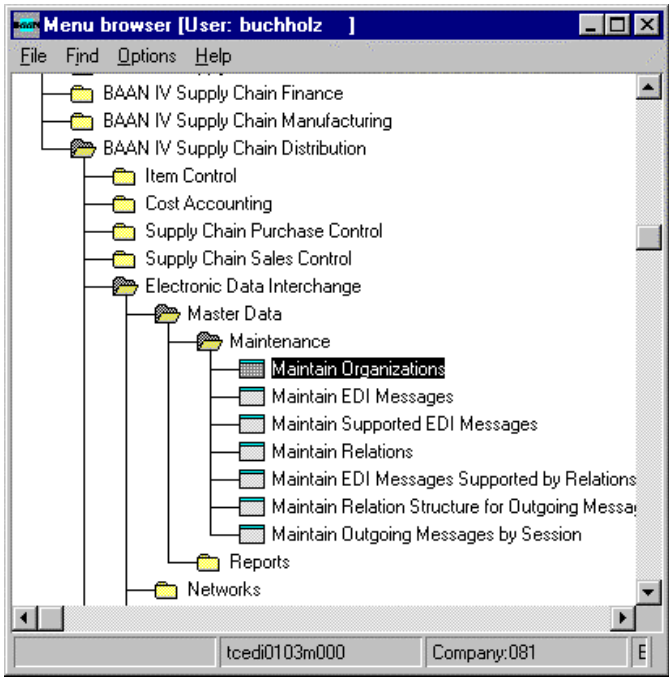
```
"SAX";...;"";...;"SAX_END"
```

Changing the Date Format

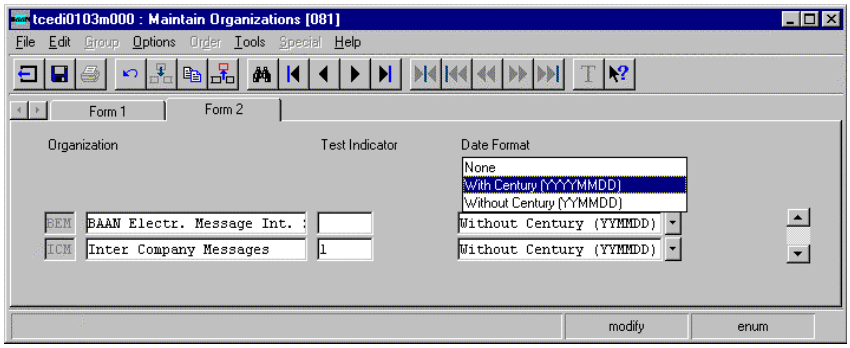
For the BAAN Versions b and c2/3 we have defined a date format using up to 6 numerical digits. Reading this definition, you will find out that the date format has been changed to 8 digits at maximum. With the BAAN Version BAAN IVC4 the delivered BEMIS default file the defaults.edi will be different in 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 BAAN field is described in a more detailed way, including information about the processing in the EDI subsystem and in BAAN IV.

2 ELP shipment: record type description

This chapter describes the record types required by the BAAN Standard in-house Message format for shipment notification according to VDA 4913 VA36.

SA1 ELP Shipment Overhead - *Nachrichten Vorsatz*

Status : Mandatory
Frequency : Once by message
Description: This record type supports the unambiguous identification of the whole message.

ELP SHIPMENT IN-HOUSE FORMAT					Map to Application Fields (in)	
Pos	**FIELD NAME**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1.	Record type (*Satzart)*	O/I	M	an3	SA1	
2.	Message reference *(Nachrichtenreferenz)*	O/I	M	an..14	tcedi702.bano	Generation by EDI subsystem
3.	Network address customer *(Netzwerkadresse Kunde)*		M	an..17	tcedi702.reno	Conversion (see below)
4.	Message (*Nachricht*)		M	an..6	tcedi702.mess	Conversion (see below)
5.	Organization *(Organisation)*		M	an..6	tcedi702.orga	Conversion (see below)
6.	Order type (*Auftragsart*)		M	an..35	tcedi702.koor	Conversion (see below)
7.	Order reference (*Auftragsreferenz)*		M	an..35	tcedi702.msno	Conversion (see below)
8.	Transmission date (*Sendedatum*)		M	n..8	tcedi702.send	
9.	Transmission time *(Sendezeit)*		M	n..4	tcedi702.sent	
10.	Transmission number old *(Übertragungsnummer alt)*		M	an..14	tcedi702.prno	
11.	End of record marker *(Satzendekennung)*		M	an7	SA1_END	

Detailed description of ELP shipment, record type SA1 Overhead

Position:	1	Field format:	an3	Field status:	M
Field name:		Record type		(Key field in)	

Description: This field identifies the record type in the message block. It contains 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 records of one ELP shipment. The message reference has to be unambiguous by ELP shipment. The numbering helps to control the chronological order of the ELP shipment and the complete transmission. The field consists of a fixed part with four characters, the current date in the format YYMMDD and a serial number with four characters. The special format is defined in the network parameters in the BAAN table tcedi020.

Processing incoming
EDI Subsystem: The EDI subsystem generates this number to identify an ELP shipment and writes it into all records of an ELP shipment.
BAAN: Map to BAAN table field tcedi702.bano.

Position	3	Field format	an..17	Field status	M
Field name		Identification/network address customer			

Description: This field contains the identification respectively network address of the ship-from business partner.

Processing incoming
EDI Subsystem: Transmission of value from message file.

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

Position	4	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 of the message type BEMIS ELP shipment is EDLIN.

Processing incoming
EDI Subsystem: This field has the fixed value ‘EDLIN’.
BAAN: The message code in the BAAN table tcedi001 ‘Supported EDI Messages’ determines which internal message is connected to this BEMIS ELP shipment. The BAAN table tcedi005 EDI Messages determines, for every message, which session (DLL) is used in BAAN to process the BEMIS shipment notification. The message code is mapped to the BAAN table field tcedi702.mess.

Position	5	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 incoming
EDI Subsystem: Map to BAAN table field tcedi702.orga.
BAAN: The corresponding organization must have been entered into the BAAN table tcedi003

Position	6	Field format	an..35	Field status	M
Field name		Order Type			

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

Processing incoming
EDI Subsystem: This field is filled with the value blank.
BAAN: Map to BAAN table field tcedi702.koor.
In BAAN table tcedi200 there must be an entry for this order type in connection with the respective message and organization.

Position	7	Field format	an..35	Field status	M
Field name		Order reference			

Description: This field contains a code for the order reference.

Processing incoming
EDI Subsystem: Transmission of the value from the transmission file.
BAAN: Map to BAAN table field tcedi702.msno.

Position	8	Field format	n..8	Field status	M
Field name		Transmission date			

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

Processing incoming
EDI Subsystem: Entry of the arrival date of the message at the EDI subsystem.
BAAN: Map to BAAN table field tcedi702.send.

Position	9	Field format	n..4	Field status	M
Field name		Transmission time			

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

Processing incoming
EDI Subsystem: Entry of the arrival time of the message at the EDI subsystem.
BAAN: Map to BAAN table field tcedi702.send

Position	10	Field format	an..14	Field status	M
Field name		Transmission number old			

Description: This field contains the reference number of the previous transmission.

Processing incoming
EDI Subsystem: Transmission of the value from the transmission file.
BAAN: Map to BAAN table field tcedi702.prno

Position	11	Field format	an7	Field status	M
Field name		End of record marker			

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

Processing incoming
EDI Subsystem: The field is be filled with the fixed value ‘SA1_END’.
BAAN: None

SA3 Shipping Note Header - *Kopfdaten Lieferschein*

Status : Mandatory

Frequency : At least once by message

Description: This record type supports the transmission of shipping note header data.

ELP SHIPMENT INHOUSE FORMAT					**Map to Application Fields (in)**	
Pos	**FIELD NAME**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1.	Record type *(Satzart)*	O/I	M	an3	SA3	
2.	Message reference *(Nachrichtenreferenz)*	O/I	M	an..14	tcedi702.bano	Generation by EDI subsystem
3.	Network address customer (*Netzwerkadresse Kunde)*	O/I	M	an..17	tdssc032.ecno	Conversion (see below)
4.	Shipping note number (*Lieferschein-Nummer)*	O/I	M	n..9	tdssc032.cdrf	
5.	Customer's plant (*Werk-Kunde*)		M	an..35	tdssc032.plnt	
6.	Customer's final delivery point (*Abladestelle-Kunde*)		M	an..32	tdssc032.delp	
7.	Code delivery address (*Schlüssel Lieferadresse)*		M	an..20	tdssc032.cdel	Generation by EDI subsystem Conversion based on qualifier in pos. 6 and 7 (see below)
8.	Qualifier address code (*Qualifier Adress-Code)*		M	an2	DP	
9.	Qualifier address type *(Qualifier Adressart)*		M	an2	ZZ	
10.	Shipping date (*Versanddatum*)		M	n..8	tdssc032.ddat	
11.	Transmission date from EDI subsystem (*Übertragungsdatum aus EDI-Subsystem*)		M	n..8	tdssc032.edat	
12.	Shipping type (*Versandart*)		M	n..6	tdssc032.dtyp	
13.	Transaction code (*Vorgangsschlüssel*)		M	n..6	tdssc032.etyp	
14.	End of record marker (*Satzendekennzeichen*) fixed value "SA3_END"		M	an7		

Detailed description of ELP Shipment, record type SA3 Shipping Note Header

Position	1	Field format	an3	Field status	M
Field name		Record type		(Key field)	

Description: The field identifies the record type in the message block.

It contains the fixed value ‘SA3’.

Processing incoming
EDI subsystem: The position is filled with the fixed value ‘SA3’.
BAAN: None

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

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

The field consists of the current date (format: YYMMDD) and a serial number with six characters.

Processing incoming
EDI subsystem: Map BAAN table field tcedi701.bano to position.
BAAN: None

Position	3	Field format	an..17	Field status	M
Field name		Identification/network address customer			

Description: This field contains the identification respectively network address of the ship-from business partner.

Processing incoming
EDI subsystem: Transmission of value from message file.
BAAN: The network address determines the corresponding business partner and the network in the BAAN table tcedi028 Relations by network. This identification is mapped to the BAAN table field tcedi702.reno.

Position	4	Field format	n..9	Field status	M
Field name		Shipping note number		(Key field)	

Description: This field contains the identification of the shipping note, which consists of nine characters.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc032.cdrf.

Position	5	Field format	an..35	Field status	M
Field name		Customer's plant			

Description: This field indicates the plant of the ship-to business partner.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc032.plnt.

Position	6	Field format	an..32	Field status	M
Field name		Customer's final delivery point			

Description: This field indicates the final delivery point in the plant of the customer.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc032.delp.

Position	7	Field format	an..20	Field status	M
Field name		Code delivery address		(Key field in)	

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

Processing incoming
EDI subsystem: The EDI subsystem generates this code on the basis of the data in *Plant number customer* and *Final delivery point*. Enclosed an example which shows the way this code should be generated. Please notice that the format should not be fixed.

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

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 *Code delivery address* is determined in this BAAN table and mapped to the BAAN table field TFtdssc002.cdel.

Description: This field contains the qualifier address code that is used to determine the delivery address from the value in position 7. This position must be 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 tcedi218 (Address code IDs). It is taken into account when the BAAN internal delivery address code is determined from the value in position 7.

Position	9	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 7. This position must be filled with the fixed value ‘ZZ’.

EDI subsystem: This field is filled with the fixed value ‘ZZ’.
BAAN: The qualifier must have been entered in the BAAN table tcedi224 (Address types). It is taken into account when the BAAN internal delivery address code is determined from the value in position 7.

Position	10	Field format	n..8	Field status	M
Field name		Shipping date			

Description: This field contains the shipping date (format: YYMMDD).

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc032.ddat.

Position	11	Field format	n..8	Field status	M
Field name		Transmission date			

Description: This field describes the EDI transmission date of the message.

Processing incoming
EDI subsystem: Enter transmission date of message.
BAAN: Map field value to BAAN table field tdssc032.edat.

Position	12	Field format	n..6	Field status	M
Field name		Shipping type			

Description: This field indicates the way that the goods are shipped, for example, by truck.

Example:
01 = truck subcontractor (*LKW Unterlieferant*)
02 = truck customer (*LKW Kunde*)
03 = truck carrier (*LKW Spedition*)
04 = truck rail (*LKW Bahn*)
05 = truck self (supplier) (*LKW eigen (Lieferant*))
06 = rail freight (*Bahn Fracht*)
07 = rail express (*Bahn Expreß*)
08 = rail wagon (*Bahn Waggon*)
09 = mail (*Postsendung*)
10 = air freight (*Luftfracht*)
11 = sea freight (Seefracht)

Processing incoming
EDI subsystem:
BAAN: Map field to BAAN table field tdssc032.dtyp

Position	13	Field format	n..6	Field status	M
Field name		Transaction code			

Description: This field contains the transaction code, here for ELP transaction type 36.

Processing incoming
EDI subsystem: Enter 36.
BAAN: Mapping field value to BAAN table field tdssc032.etyp.

Position	14	Field format	an7	Field status	M
Field name		End of record marker			

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

EDI subsystem: The field is filled with the fixed value ‘SA3_END’.
BAAN: None

SA4 Shipping Note Lines - *Lieferschein-Positionen*

Status : Mandatory

Frequency: Repeatable by shipping note lines

Description: This record type supports the transmission of position-specific shipping note dates. It refers to the previous record type SA3 and has to be available at least once.

ELP SHIPMENT INHOUSE FORMAT					**Map to Application Fields (in)**	
Pos	**FIELD NAME**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1.	Record type (*Satzart*)	O/I	M	an3	SA4	
2.	Message reference (*Nachrichtenreferenz*)	O/I	M	an..14	tcedi702.bano	Generation by EDI subsystem
3.	Network address customer (*Netzwerkadresse Kunde*)	O/I	M	an..17	tcedi702.reno	
4.	Shipping note number (*Lieferschein-Nummer*)	O/I	M	n..9	tdssc033.cdrf	
5.	Shipping note position (*Lieferschein Position*)	O/I	M	n..6	tdssc033.sern	
6.	Customer's item number (*Sachnummer Kunde*)		M	an..35	tdssc033.cpno	
7.	Supplier's item number (*Sachnummer-Lieferant*)		M	an..16	tdssc033.item	
8.	Qualifier item number (*Qualifier Artikelnummer*)		M	an2	SA	
9.	Shipped quantity (*Liefermenge*)		M	n..8	tdssc033.quan	
10.	Quantity unit (*Mengeneinheit*)		M	an..3	tdssc033.cuqs	Conversion
11.	Original shipping note number (*Ursprungs-Lieferschein-Nr*)		M	n..11	tdssc033.ides	
12.	Lot Number		C	an..16	tdssc033.clot	
13.	End of record marker (*Satzendekennzeichen*) fixed value "SA4_END"		M	an7		

Detailed description of ELP Shipment, record type SA4 Shipping Note Lines

Position	1	Field format	an3	Field status	M
Field name		Record type		(Key field)	

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

Processing incoming
EDI subsystem: Position is filled with fixed value ‘SA4’.
BAAN: None

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

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

The field consists of the current date (format: YYMMDD) and a serial number with six characters.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tcedi702.bano.

Position	3	Field format	an..17	Field status	M
Field name		Identification/network address customer			

Description: This field contains the identification respectively network address of the ship-from business partner.

Processing incoming
EDI subsystem: Transmission of value from message file.
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	n..9	Field status	M
Field name		Shipping note number		(Key field)	

Description: This field contains the identification number of the shipping note. It contains a nine-digit number.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.cdrf.

Position	5	Field format	n..6	Field status	M
Field name		Shipping note lines		(Key field)	

Description: This field contains the identification of the position of the shipping note number. It contains a 6-digit number.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.sern.

Position	6	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 an item or another activity.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.cpno.

Position	7	Field format	an..16	Field status	M
Field name		Supplier's item number			

Description: This field contains the identification number, which the supplier applied to an item or another activity.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.item.

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

Description: This field contains the qualifier item number for the determination of the item number on the basis of the Customer's item number in position 5. It must contain the fixed value 'SA'. ('SA' = Supplier's item number).

Processing incoming
EDI subsystem: The field is filled with the fixed value 'SA'.
BAAN: This qualifier must have been entered in the BAAN table tcedi232 (Item Code IDs). It is taken into account when determining the BAAN internal item code on the basis of the customer article code in position 5.

Position	9	Field format	n..8	Field status	M
Field name		Shipped quantity			

Description: This field contains the shipped quantity expressed in the quantity unit (pos. 10) of the schedule. It contains a numerical value.

Format: ‘NNNNNNNN’

Processing incoming

EDI subsystem: None

BAAN: Map field value to BAAN table field tdssc033.quan.

Position	10	Field format	an..3	Field status	M
Field name		Quantity 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	MMQ
Square meter	MTK
Cubic millimeter	MMQ
Cubic centimeter	CMQ
Cubic meter	MTQ
Liter	DMQ
Gram	GRM
Kilogram	KGM
Metric ton	TON
Piece	PCE

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

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.cuqs and conversion of field value using table tcedi304 in session tcedi3104m000.

Position	11	Field format	n..11	Field status	M
Field name		Original Shipping Note Number			

Description: This field contains the advice note number for the shipment line given by the supplier.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.ides. tcedi3104m000.

Position	12	Field format	n..11	Field status	M
Field name		Original Shipping Note Number			

Description: This field contains the lot number for the item provided by the supplier.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc033.clot.

Position	13	Field format	an..7	Field status	M
Field name		End of record marker			

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

Processing incoming
EDI subsystem: This position is filled with the fixed value ‘SA4_END’.
BAAN: None

SA5 Packaging Position - *Packmittelpositionen*

Status : Mandatory

Frequency: Repeatable by shipping note position

Description: This record type supports the transmission of position-specific packaging data. It refers to the previous record type SA4 and has to be available at least once.

ELP SHIPMENT INHOUSE FORMAT					**Map to Application Fields (in)**	
Pos	**FIELD NAME**	**Key**	**ST**	**FM**	**Table Field**	**Action**
1.	Record type (*Satzart*)	O/I	M	an3	SA4	
2.	Message reference (*Nachrichtenreferenz*)	O/I	M	an..14	tcedi702.bano	Generation by EDI subsystem
3.	Network address customer (*Netzwerkadresse Kunde*)	O/I	M	an..17	tcedi702.reno	
4.	Shipping note number (*Lieferschein-Nummer*)	O/I	M	n..9	tdssc034.cdrf	
5.	Shipping note position (*Lieferschein Position*)	O/I	M	n..6	tdssc034.sern	
6.	Packaging number customer (*Packmittelnummer Kunde*)		M	an..35	tdssc034.cctc	
7.	Packaging number supplier (*Packmittelnummer Lieferant*)		M	an..16	tdssc034.cntc	
8.	Qualifier item number (*Qualifier Artikelnummer*)		M	an2	SA	
9.	Number packaging (*Anzahl Packmittel*)		M	n..16.4	tdssc034.ctqt	
10.	End of record marker (*Satzendekennzeichen*) fixed value “SA5_END”		M	an7		

Detailed description of ELP shipment, record type SA5 Packaging Position

Position	1	Field format	an3	Field status	M
Field name		Record type		(Key field)	

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

Processing incoming
EDI subsystem: Position is filled with fixed value ‘SA5’.
BAAN: None

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

Description: This field identifies all connected records of one ELP shipment. The message reference has to be unambiguous by ELP shipment. The numbering helps to control the chronological order of the ELP shipment and the complete transmission. The field consists of the current date and a serial number with six characters.

Date format: YYMMDD

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tcedi702.bano.

Position	3	Field format	an..17	Field status	M
Field name		Identification/network address customer			

Description: This field contains the identification respectively network address of the ship-from business partner.

Processing incoming
EDI subsystem: Transmission of value from message file.
BAAN: The network address determines the corresponding business partner and the network in the BAAN table tcedi028 Relations by network. This identification is mapped to the BAAN table field tcedi702.reno.

Position	4	Field format	n..9	Field status	M
Field name		Shipping note number		(Key field)	

Description: This field contains the identification of the shipping note.
Format: 9-digit number.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc034.cdrf.

Position	5	Field format	n..6	Field status	M
Field name		Shipping note position		(Key field)	

Description: This field contains the identification of the shipping note number position.
Format: 9-digit number.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc034.sern.

Position	6	Field format	an..35	Field status	M
Field name		Packaging number customer			

Description: This field contains the identification number that the customer applied to a packaging.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc034.cctc.

Position	7	Field format	an..16	Field status	M
Field name		Packaging number supplier			

Description: This field contains the identification number that the supplier applied to a packaging.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc034.cntc.

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

Description: This field contains the qualifier item number for the determination of the item number on the basis of the customer's item number in position 5. It must contain the fixed value 'SA'. ('SA' = Supplier's item number).

Processing incoming
EDI subsystem: The field is filled with the fixed value 'SA'.
BAAN: This qualifier must have been entered in the BAAN table tcedi232 (Item Code IDs). It is taken into account when determining the BAAN internal item code on the basis of the customer article code in position 5.

Position	9	Field format	n..16.4	Field status	M
Field name		Number packaging			

Description: This field contains the number of packaging by type.

Processing incoming
EDI subsystem: None
BAAN: Map field value to BAAN table field tdssc034.ctqt.

Position	10	Field format	an..7	Field status	M
Field name		End of record marker			

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

Processing incoming
EDI subsystem: The position is filled with the fixed value ‘SA5_END’.
BAAN: None

3 Glossary of terms and abbreviations

ABRUF	Schedule
Appl	Application
ANSI	American National Standards Organisation
BEM	Baan Electronic Message - abbreviated form of BEMIS used with the definition of the EDI organization
BEMIS	Baan Electronic Message Interchange System
business partner	customer or supplier
C	Conditional, that is, optional message
defaults.edi	Export file detailing master EDI data
DELINS	Odette Delivery Instruction (Schedule)
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

VDA	Standard used for electronic data exchange in Germany
X12	Standard used for electronic data exchange in the United States

4 Appendix

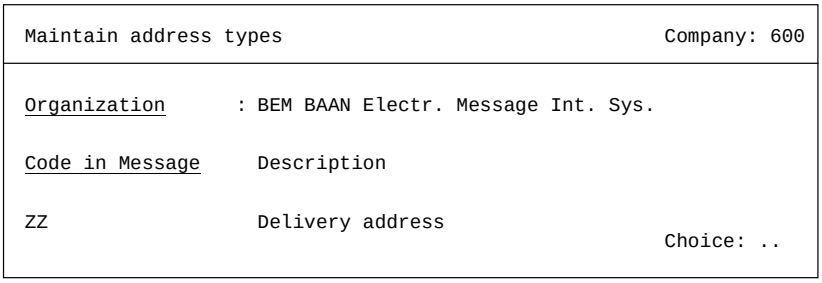
Conversion of plant/final delivery point in delivery address

The message *VDA4913VA36 (ELP shipment incoming)* details the plant and the final delivery point. However BAAN messages only detail a delivery address, without distinguising between the plant and final devivery point.

Therefore, it is necessary for the above incoming message to carry out a conversion of the combination plant/final delivery point into a certain delivery address in BAAN.

Use the following code tables and conversion tables to convert:

1 Address types (TBtcedi214)



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

3 Delivery address codes by customer incoming (TBtcedi310) **

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

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

Code in Message                   Code in Application

01601QC                           001 Berlin plant, gate 1
01602QC                           002 Berlin plant, gate 2

                                                          Choice: ..
```

The conversion of the plant/final delivery point into the delivery address (code in application) is entered into this table referring to one customer. The parameters have to be entered for every plant/final delivery point-combination of one customer. In addition, the unambiguous plant/final delivery point-combination of the actual ship-to business partner is determined.

5 Sample file incoming message

"SA1";"19970812000000";"LSELP1";"EDLIN";"BEMIS";"";"45678";970812;600;"42256";"SA1_END"

"SA3";"19970812000000";"LSELP1";123456789;"WEK";"Abl";"WEKAbl";"DP";"ZZ";970813;970812;3;36;"SA3_END"

"SA4";"19970812000000";"LSELP1";123456789;10;"ELP01-C";"ELP01";"SA";1000;"PCE";;"SA4_END"

"SA5";"19970812000000";"LSELP1";123456789;"10";"wi-11";"WI1";"SA";"2";"SA5_END"

"SA4";"19970812000000";"LSELP1";123456789;20;"wi22";"WI22";"SA";10;"KGM";;"SA4_END"

"SA5";"19970812000000";"LSELP1";123456789;20;"vw11";"VW1";"SA";2;"SA5_END"