

BAAN IVc3scc1

**Definition of BEMIS 2.0a Import and Export
File for the Message Type Packaging Data**

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About this document

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

The document is intended for developers of EDI subsystems, which want to realize an interface with BAAN IV. Furthermore, this document 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.

Chapter 1 describes the general principles for the corresponding EDI message. For example, the available record types, message structure, key fields and other conventions.

Chapter 2 details the record types which are relevant for the EDI message. This chapter contains an overview table with the corresponding BAAN table fields. In addition, every single field is more detailed. You will find information about the general conditions which you need to observe for the processing in the EDI subsystem or in BAAN IV.

1 General principles

This document describes the BAAN EDI In-house-Format for the message *Packaging Transfer (incoming)* with the transmission purpose *account statement*.

Available record types

The use of the following record types is conditional (C) respectively mandatory (M) when you transmit information about packagings by means of the message VDA 4927 (*"Datenfernübertragung von Ladungsträger-Kontoauszügen und Ladungsträger-Bewegungen"*).

| ID | Status | Name |
|-----|--------|---------------------|
| SA1 | M | Packaging Overhead |
| SA2 | M | Packaging Header |
| SA3 | M | Packaging Line Data |

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 record structure is used for the message type BEMIS packaging transfer incoming:

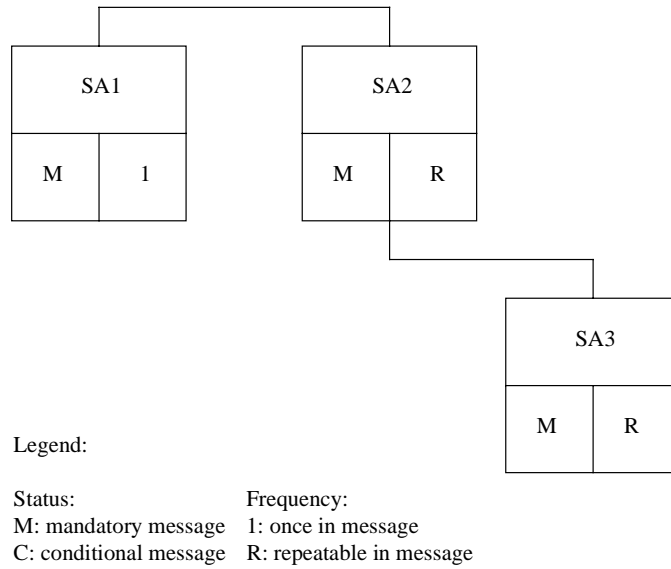


Figure 1, Branching diagram

For the packaging transfer the BEMIS file has the following structure:

| | |
|---------|------------------------|
| SA1 ... | BAAN IV Overhead |
| SA2 ... | Packaging Header 1 |
| SA3 ... | Packaging Line Data 11 |
| SA3... | Packaging Line Data 12 |
| | |
| SA2 ... | Packaging Header 2 |
| SA3 ... | Packaging Line Data 21 |
| SA3... | Packaging Line Data 22 |
| | |

Key fields for incoming messages

The following structure of the key fields is used to determine the related records for a message about a packaging transfer:

| Record type | Key field 1 | Key field 2 | Key field 3 | Key field 4 | Key field 5 |
|-------------|-------------------|--------------------------|-----------------|------------------------|-----------------|
| SA1 | Message reference | Network address customer | | | |
| SA2 | Message reference | Network address customer | Customer number | Customer's item number | |
| SA3 | Message reference | Network address customer | Customer number | Customer's item number | Document 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/

BAAN will additionally create the following subdirectories:

/auto3/baanIV/bemis/pack/appl_from/
 /auto3/baanIV/bemis/pack/appl_to/
 /auto3/baanIV/bemis/pack/command/
 /auto3/baanIV/bemis/pack/store_recv/
 /auto3/baanIV/bemis/pack/store_sent/
 /auto3/baanIV/bemis/pack/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 outgoing 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.

The file name of the BEMIS inhouse format file of the message packaging transfer, which is being described in this document, is defined in the following way:

| Direction | File name | Network directory |
|------------------|------------------|--------------------------|
| incoming | CONTAINER.IN | ../appl_to |

BEMIS Messages – Conventions

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

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

In the following sections you will find the format descriptions for the individual record types of the BEMIS inhouse format file. The tables contain the following data:

| PACKAGING INHOUSE FORMAT | | | | |
|--------------------------|-------------------|-----|----|----|
| Pos | FIELD DESCRIPTION | Key | ST | FM |

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

| | |
|------------|--|
| Pos. | Position of the field in the 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 digits |
| | n1 numerical field with exactly 1 digit |

| Mapping to Application Table Fields (in) | |
|--|--------|
| Table Field | Action |

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

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.

For the message type packaging transfer you need to observe that the value sign of the numerical value is not transferred individually, but in connection with the numerical value. This is especially important for negative values as the value sign has to be included in the length of the numerical value (+1 equals 1, -1 equals -1).

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 empty 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

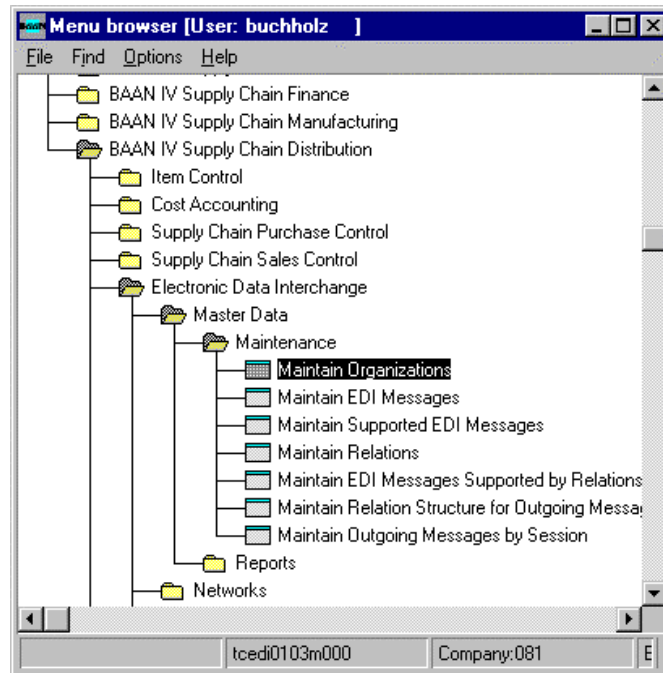
"SAX";...;"";...;"SAX_END"

Changing the Date Format

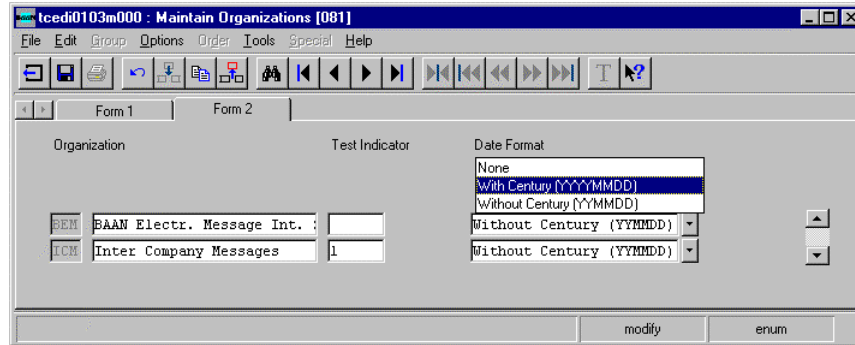
For the BAAN Versions b and c2/3 we have defined a date format using up to 6 numerical digits. Reading this definition, you will find out that the date format has been changed to 8 digits at maximum. With the BAAN Version BAAN IVC4 the delivered BEMIS default file the defaults.edi will be different in 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 be able to translate each outgoing message comming with the changed date format!

Following the table overview, every BAAN 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 comparison to Version 1.0.a a position has been changed and some new positions has been added to data record SA2.

Changed Possition:

SA2.4: Only the Customer Number (His Business Partner Number) has to be mapped to the position. The field format is now an..35

New Positions:

SA2.14: Location Code Customer tdcsc030.locc (an..35)

SA2.15 Supplier's Number (Our Busines Partner Number) tdcsc030.obpn (an..35)

SA2.16 Location Code Supplier tdcsc030.locs (an..35)

SA2.17 Code for the Packaging Controller (an..6)

SA2.18 Code for the Packaging Controller's Delivery Address (an..3)

SA2.19 Position SA2.14 has been moved to SA2.19

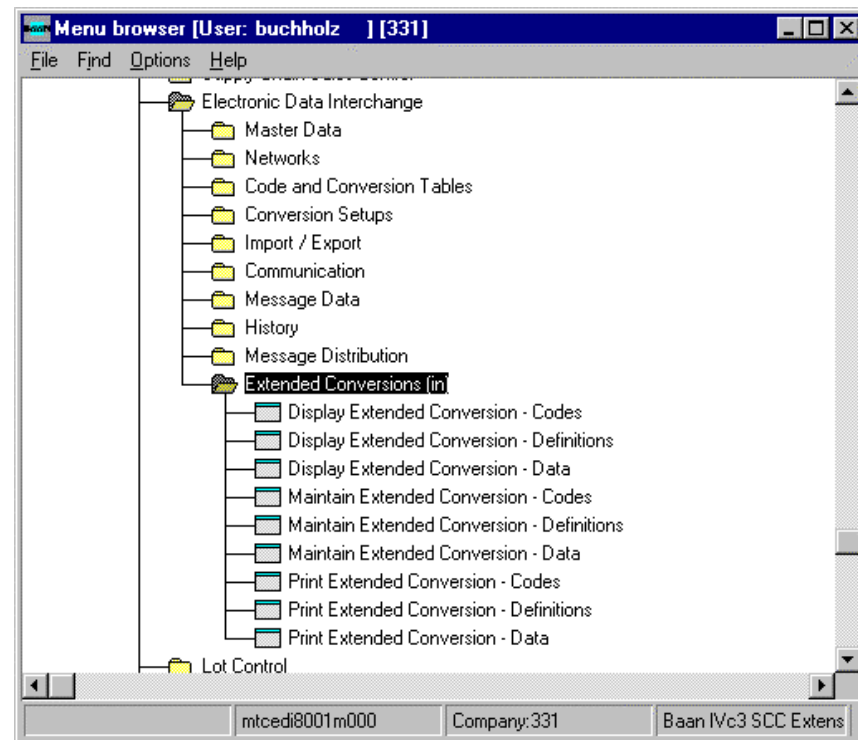
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Extended Conversions (in)

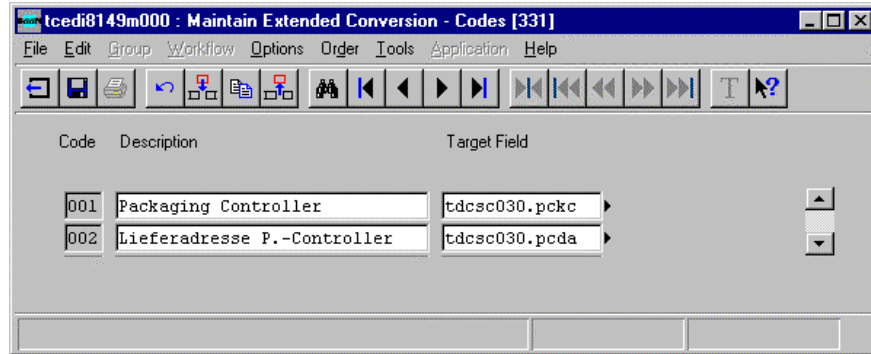
In order to import this message there is the need to determine the code for the Packaging Controller (SA2.17) and the code used for the Packaging Controller's Delivery Address (SA2.18). These codes are only used in the BAAN system.

To determine these codes you have to analyse a combination of different information in the message. Using Extended Conversion functionality you are able to combine four different arguments to determine the needed codes.

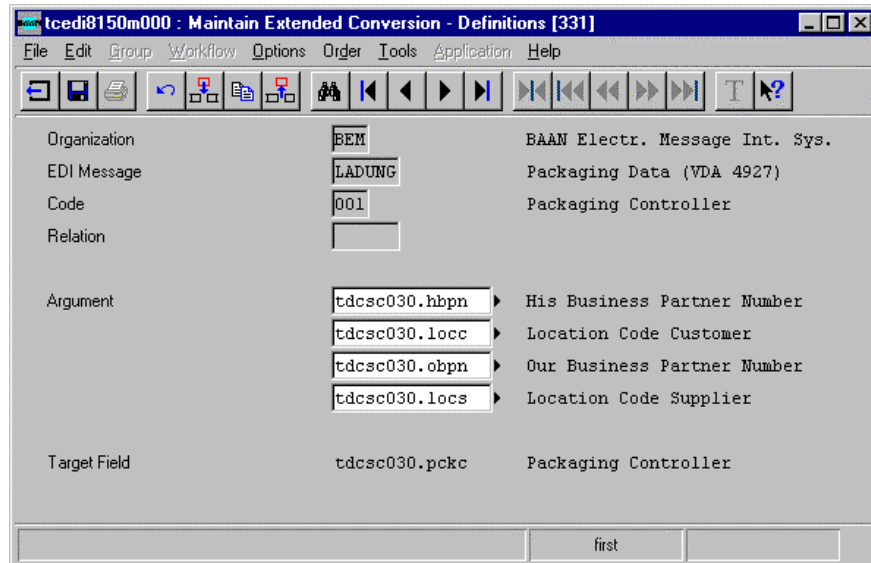
Therefore the following sessions have to be maintained:



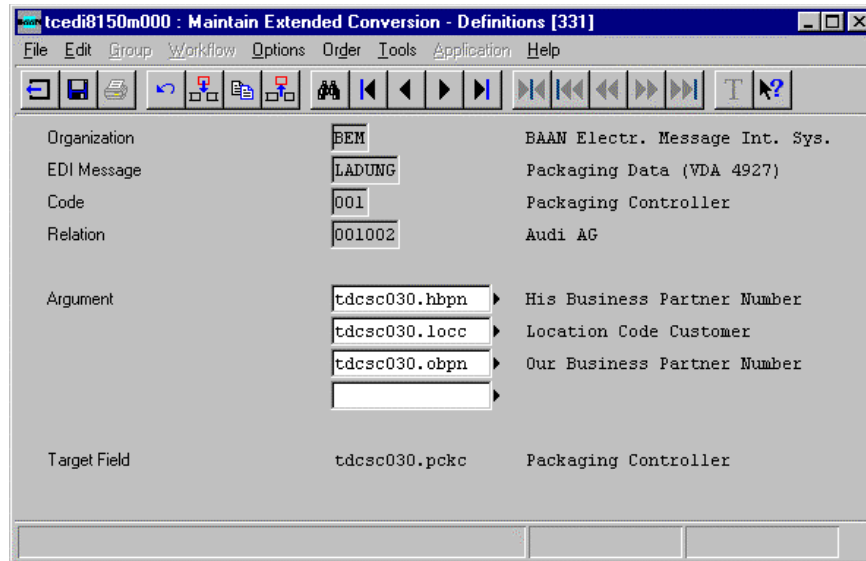
At first you have to define two key codes. One for the packaging controller and one for its delivery address.



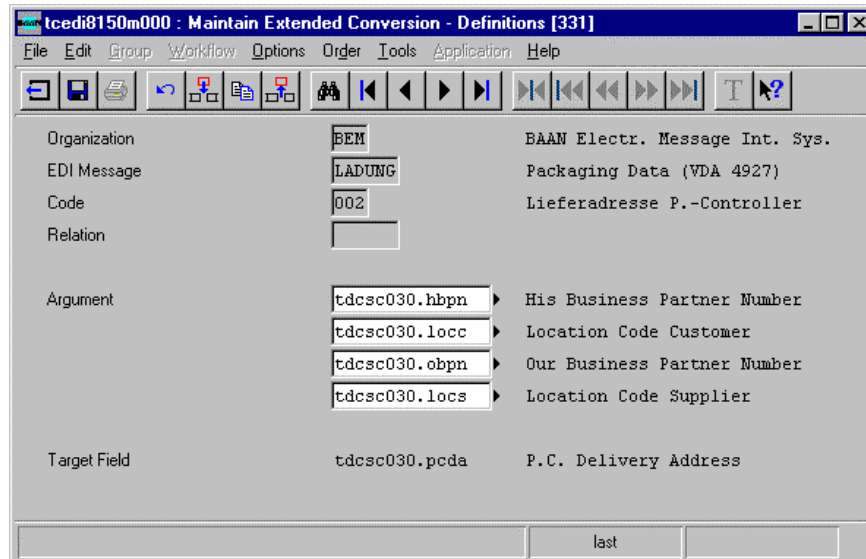
After that you have to link the code above to the logical message:



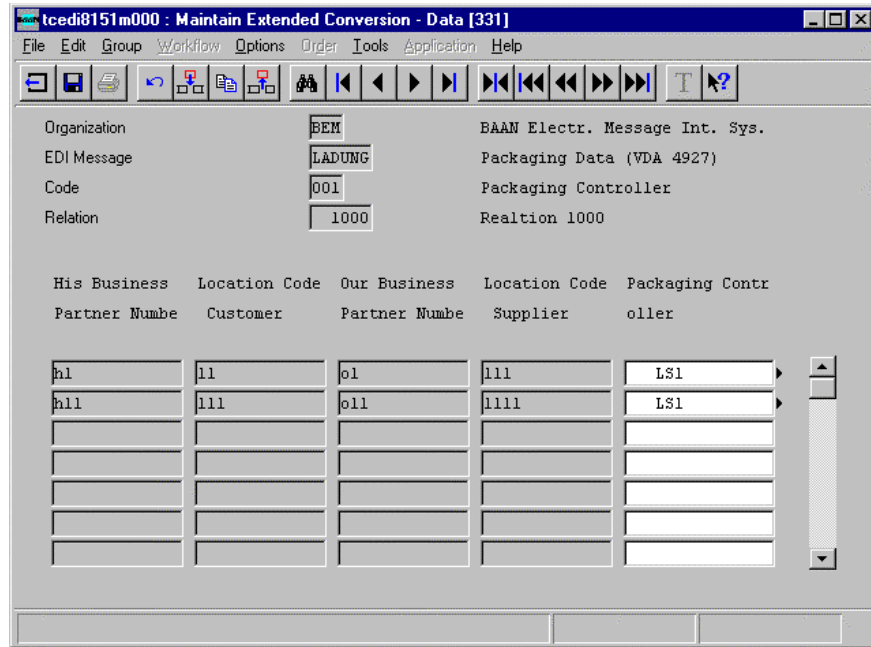
It is also possible to link the defined code to a logical message and a specific relation. Here is an example:



For the second code following arguments should be used:



Finally you have to define the range of values for the code, the arguments and the target value.



2 Data record description by record type

SA1 Packaging Overhead

Status : Mandatory
 Frequency : Once by message
 Description: This record contains information about the transmitter, the type of the message, and the time of the transmission. The included message reference identifies all related records of this message.

| PACKAGING INHOUSE FORMAT | | | | | Mapping to Application Fields (in) | |
|--------------------------|---|-----|----|--------|------------------------------------|-----------------------------|
| Pos | FIELD DESCRIPTION | Key | ST | FM | Table Field | Action |
| 1 | Record type | O/I | M | an3 | SA1 | |
| 2 | Message reference | O/I | M | an..14 | tcedi702.bano | Generation by EDI subsystem |
| 3 | Identification/network address customer | | M | an..17 | tcedi702.reno | Conversion (see below) |
| 4 | Message | | M | an..6 | tcedi702.mess | Conversion (see below) |
| 5 | Organization | | M | an..6 | tcedi702.orga | Conversion (see below) |
| 6 | Order type | | M | an..35 | tcedi702.koor | Conversion (see below) |
| 7 | Transmission reference | | M | an..20 | tcedi702.msno | |
| 8 | Transmission date | | M | n..8 | tcedi702.send | |
| 9 | Transmission time | | M | n..4 | tcedi702.sent | |
| 10 | Transmission reference old | | M | an..20 | tcedi702.prno | |
| 11 | Record end sign | | M | an7 | SA1_END | |

Detailed description of Packaging data, record type SA1 Overhead

| | | | | | |
|------------|--------------------|--------------|-------------|--------------|----------|
| 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 'SA1'.

EDI subsystem: Field is filled with fixed value 'SA1'.

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

Description: This field identifies all related records of the packaging. The numbering of the message reference, which has to be unambiguous by packaging data message, helps to control the chronological order of the packaging data message and the complete transmission. The field consists of a fix part with four characters, the current date (foramt: 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 a packaging data message and writes it into all records of a packaging data message.

BAAN: Mapping 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 or network address of the ship-from business partner.

Processing incoming

EDI subsystem: Transmission of value from message file.

BAAN: The corresponding business partner and network are determined on the basis of the network address in the BAAN table tcedi028 'Relations by network'. This business partner identification is mapped to the BAAN table field TFtcedi702.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 shipment notification is 'LADUNG'.

Processing incoming

EDI subsystem: The field is filled with the fixed value 'LADUNG'.

BAAN: The message code in the BAAN table tcedi001 'Supported EDI Messages' determines, which internal message is connected to this BEMIS invoice. In the BAAN table TBtcedi005 'EDI Messages' is determined for every message, which session (DLL) is used in BAAN to process the BEMIS invoice. The message code is mapped to the BAAN table field TFtcedi702.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: The field is filled with the fixed value 'BEMIS'.

BAAN: Mapping to BAAN table field tcedi702.orga.
The corresponding organization must have been entered in 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: The value blank is entered in this field.

BAAN: Mapping to BAAN table field tcedi702.koor.
In BAAN table tcedi200 there must be an entry for this order type in connection with the appropriate message and organization.

| | | | | | |
|------------|-------------------------------|--------------|---------------|--------------|----------|
| Position | 7 | Field format | an..20 | Field status | M |
| Field name | Transmission reference | | | | |

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

Processing incoming

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

BAAN: Mapping 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 invoice was created. On the incoming side, this field contains the arrival date of the invoice at the EDI subsystem (format: YYMMDD).

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

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

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 | 10 | 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 incoming

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

BAAN: Mapping to BAAN table field tcedi702.prho.

| | | | | | |
|------------|------------------------|--------------|------------|--------------|----------|
| Position | 11 | Field format | an7 | Field status | M |
| Field name | Record end sign | | | | |

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

Processing incoming

EDI subsystem: The field is filled with the fixed value 'SA1_END'.

BAAN: None

SA2 Packaging Header

Status : Mandatory

Frequency: At least once by packaging data

Description: This record type is used to transmit packaging data. The record contains information about the relation and the packaging.

| PACKAGING INHOUSE FORMAT | | | | | Mapping to Application Fields (in) | |
|--------------------------|---------------------------------------|-----|----|--------|------------------------------------|------------------------|
| Pos | FIELD DESCRIPTION | Key | ST | FM | Table Field | Action |
| 1. | Record type | I | M | an3 | SA2 | |
| 2. | Message reference | I | M | an..14 | tcedi702.bano | |
| 3. | Network address customer | I | M | an..17 | tcedi702.reno | |
| 4. | His Business Partner Number | I | M | an..35 | tdcsc030.hbpn | |
| 5. | Customer's item number | I | M | an..22 | tdcsc030.paid | Conversion (see below) |
| 6. | Qualifier address code | | M | an2 | DP | |
| 7. | Qualifier address type | | M | an2 | ZZ | |
| 8. | Qualifier item number | | M | an2 | SA | |
| 9. | Transmission purpose | | M | an2 | tdcsc030.trpu | |
| 10. | Number packaging old stock | | C | n..11 | tdcsc030.pbal | |
| 11. | Number packaging new stock | | C | n..11 | tdcsc030.nbal | |
| 12. | Transaction date old stock | | C | n..8 | tdcsc030.pbdt | |
| 13. | Transaction date new stock | | C | n..8 | tdcsc030.nbdt | |
| 14. | Location Code Customer | | C | an..35 | tdcsc030.locc | |
| 15. | Our Business Partner Number | | C | an..35 | tdcsc030.obpn | |
| 16. | Location Code Supplier | | C | an..35 | tdcsc030.locs | |
| 17. | Packaging Controller | | M | an..6 | tdcsc030.pckc | Conversion (see below) |
| 18. | Delivery Address Packaging Controller | | M | an..3 | tdcsc030.pcda | Conversion (see below) |
| 19. | Record end sign | | M | an7 | SA2_END | |

Detailed description of Packaging data, record type SA2 Packaging header

| | | | | | |
|------------|--------------------|--------------|-------------|--------------|----------|
| 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 'SA2'.

Processing incoming

EDI subsystem: Field is filled with fixed value 'SA2'.

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

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

Processing incoming

EDI subsystem: Refer to record type SA1.

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

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

Processing incoming

EDI subsystem: Transmission of value from message file.

BAAN: The corresponding business partner and network are determined on the basis of the network address in the BAAN table tcedi028 'Relations by network'. The BAAN internal customer number is determined in table tcedi010 'Business partner' on the basis of the business partner identification.

| | | | | | |
|------------|--|--------------|---------------|--------------|----------|
| Position | 4 | Field format | an..35 | Field status | M |
| Field name | His Customer number (Key field) | | | | |

Description: This field contains the code which is used to determine the actual customer. The code is given by the customer itself.

Processing incoming

EDI subsystem: Transmission of value from message file.

BAAN: Mapping to BAAN table field tdcsc030.hbpn.

| | | | | | |
|------------|---|--------------|---------------|--------------|----------|
| Position | 5 | Field format | an..22 | Field status | M |
| Field name | Customer's item number (Key field) | | | | |

Description: This field contains the description of the customer for the packaging type.

Processing incoming

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

BAAN: The conversion table for the item numbers can be found in the BAAN table tcedi306 under the business partner and *Organization* of the record type SA1 and the *item group ID* of record type SA2. For the transmitted customer's item number the BAAN internal item number is determined and mapped to the BAAN table field tdcsc030.paid.

| | | | | | |
|------------|-------------------------------|--------------|------------|--------------|----------|
| Position | 6 | Field format | an2 | Field status | M |
| Field name | Qualifier address code | | | | |

Description: This field contains the qualifier address code which is used for the determination of the delivery address on the basis of the value in position 4. It must contain the fixed value 'DP'.

Processing incoming

EDI subsystem: The 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 used for the determination of the BAAN internal delivery address code on the basis of 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 for the determination of the delivery address on the basis of the value in position 4. It must contain the fixed value 'ZZ'.

Processing incoming

EDI subsystem: The 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 for the determination of the BAAN internal delivery address code on the basis of 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 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: The qualifier must have been entered in the BAAN table TBtcedi232 (Item group codes). It is taken into account for the determination of the BAAN internal item number on the basis of the customer's item number in position 5.

| | | | | | |
|------------|-----------------------------|--------------|------------|--------------|----------|
| Position | 9 | Field format | an2 | Field status | M |
| Field name | Transmission purpose | | | | |

Description: This field contains the code for the transmission purpose with the following meaning:

- 01 = account statement (*Kontovollauszug*)
- 02 = account overview (*Konto-Übersicht*)
- 03 = transaction report (*Bewegungsmeldung*)
- 04 = inventory request (*Inventur-Anfrage*)
- 05 = inventory response (*Inventur-Rückmeldung*)

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc030.trpu.

| | | | | | |
|------------|-----------------------------------|--------------|--------------|--------------|----------|
| Position | 10 | Field format | n..11 | Field status | C |
| Field name | Number packaging old stock | | | | |

Description: Account statement: closing stock of last statement as carry forward

Processing incoming

EDI subsystem: Transmission of the value from the transmission file, while applying the corresponding value sign to the value.

BAAN: Mapping to BAAN table field tdcsc030.pbal.

| | | | | | |
|------------|-----------------------------------|--------------|--------------|--------------|----------|
| Position | 11 | Field format | n..11 | Field status | C |
| Field name | Number packaging new stock | | | | |

Description: Account statement: closing stock of present statement

Processing incoming

EDI subsystem: Transmission of the value from the transmission file, while applying the corresponding value sign to the value.

BAAN: Mapping to BAAN table field tdcsc030.nbal.

| | | | | | |
|------------|------------------------------------|--------------|------|--------------|----------|
| Position | 12 | Field format | n..8 | Field status | C |
| Field name | Transmission date old stock | | | | |

Description: This field contains the date of the last account statement.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc030.pbd

| | | | | | |
|------------|------------------------------------|--------------|------|--------------|----------|
| Position | 13 | Field format | n..8 | Field status | C |
| Field name | Transmission date new stock | | | | |

Description: This field contains the date of the current stock statement.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc030.nbd.

| | | | | | |
|------------|-------------------------------|--------------|--------|--------------|----------|
| Position | 14 | Field format | an..35 | Field status | C |
| Field name | Location Code Customer | | | | |

Description: This field contains the customer's location code. The code is used in order to give the supplier a hint to which customers site the packaging information might be related.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc030.loc.

| | | | | | |
|------------|------------------------------------|--------------|--------|--------------|----------|
| Position | 15 | Field format | an..35 | Field status | C |
| Field name | Our Business Partner Number | | | | |

Description: This field contains the Suppliers Number. This Number has to be agree to the customer. It normally contains the information how the supplier is named by its customer.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc030.obpn.

| | | | | | |
|------------|---------------------------------|--------------|--------|--------------|----------|
| Position | 16 | Field format | an..35 | Field status | C |
| Field name | Supplier's Location Code | | | | |

Description: This field contains the Supplier's Location Code. This field should contain the information to which supplier's site the packagings are related.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc030.locs.

| | | | | | |
|------------|----------------------------|--------------|-------|--------------|----------|
| Position | 17 | Field format | an..6 | Field status | M |
| Field name | Packaging Controler | | | | |

Description: This field contains the code for the packaging controller. This position should not be filled by the EDI Sub-System. It is very BAAN specific. The BAAN EDI Module uses the Extended Conversion functionality to determine the correct code for the Packging Controller using the combination of different position of the level.

Processing incoming

EDI subsystem: Please leave this field empty this means: . . . ; ; . . .

BAAN: BAAN table field tdcsc030.pckc.

| | | | | | |
|------------|---|--------------|-------|--------------|----------|
| Position | 17 | Field format | an..6 | Field status | M |
| Field name | Packaging Controler Delivery Address | | | | |

Description: This field contains the code for the packaging controller's delivery address. This position should not be filled by the EDI Sub-System. It is very BAAN specific. The BAAN EDI Module uses the Extended Conversion functionality to determine the correct code for the Packging Controller's Delivery Address using the combination of different position of the level.

Processing incoming

EDI subsystem: Please leave this field emptythis means: . . . ; ; . . .

BAAN: BAAN table field tdcsc030.pcda.

| | | | | | |
|------------|------------------------|--------------|------------|--------------|----------|
| Position | 19 | Field format | an7 | Field status | M |
| Field name | Record end sign | | | | |

Description: This field indicates the end of the record. It contains the fixed value 'SA2_END'.

Processing incoming

EDI subsystem: The field is filled with the fixed value 'SA2_END'.

BAAN: None

SA3 Packaging Line Data

Status : Mandatory
 Frequency: Repeating by item number
 Description: This record type supports the transmission of transaction data for the packaging.

| PACKAGING INHOUSE FORMAT | | | | | Mapping to Application Fields (in) | |
|--------------------------|----------------------------|-----|----|--------|------------------------------------|------------------------|
| Pos. | FIELD DESCRIPTION | Key | ST | FM | Table Field | Action |
| 1. | Record type | I | M | an3 | SA3 | |
| 2. | Message reference | I | M | an..14 | tcedi702.bano | |
| 3. | Network address customer | I | M | an..17 | tdssc702.reno | |
| 4. | His Customer number | I | M | an..35 | tdcsc030.hbpn | |
| 5. | Customer's item number | I | M | an..22 | tdcsc030.paid | |
| 6. | Document number | I | M | an..17 | tdcsc031.dcid | |
| 7. | Transaction key | | M | an..2 | tdcsc031.trcd | Conversion (see below) |
| 8. | Transaction date | | C | n..8 | tdcsc031.bpdt | |
| 9. | Document position number 1 | | C | an..4 | tdcsc031.dcip | |
| 10. | Document position number 2 | | C | an..4 | tdcsc031.dcpp | |
| 11. | Document date | | C | n..8 | tdcdc031.dcdt | |
| 12. | Number of packaging | | C | n..11 | tdcsc031.pqty | |
| 13. | Record end sign | | M | an7 | SA3_END | |

Detailed description of Packaging data, record type SA3 Packaging Line Data

| | | | | | |
|------------|--------------------|--------------|-------------|--------------|----------|
| 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 'SA3'.

Processing incoming

EDI subsystem: Field is filled with 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 related records of the packaging. The numbering of the message reference, which has to be unambiguous by packaging data message, helps to control the chronological order of the packaging data message and the complete transmission.

Processing incoming

EDI subsystem: Refer to record type SA1.

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

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

Processing incoming

EDI subsystem: Transmission of value from message file.

BAAN: The corresponding business partner and network are determined on the basis of the network address in the BAAN table tcedi028 'Relations by network'. The BAAN internal customer number is determined in table tcedi010 'Business partner' on the basis of the business partner identification.

| | | | | | |
|------------|--|--------------|---------------|--------------|----------|
| Position | 4 | Field format | an..35 | Field status | M |
| Field name | His Customer number (Key field) | | | | |

Description: This field contains the code which is used to determine the actual customer. The code is given by the customer itself.

Processing incoming

EDI subsystem: Transmission of value from message file.

BAAN: Mapping to BAAN table field tdcsc030.hbpn.

| | | | | | |
|------------|---|--------------|---------------|--------------|----------|
| Position | 5 | Field format | an..22 | Field status | M |
| Field name | Customer's item number (Key field) | | | | |

Description: This field contains the description of the customer for the packaging type.

Processing incoming

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

BAAN: The conversion table for the item numbers can be found in the BAAN table tcedi306 under the business partner and *Organization* of the record type SA1 and the *item group ID* of record type SA2. For the transmitted customer's item number the BAAN internal item number is determined and mapped to the BAAN table field tdcsc030.paid.

| | | | | | |
|------------|------------------------------------|--------------|---------------|--------------|----------|
| Position | 6 | Field format | an..17 | Field status | M |
| Field name | Document number (Key field) | | | | |

Description: This field contains the identification number which the transaction trigger applied to the transaction.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc031.dcid.

| | | | | | |
|------------|------------------------|--------------|--------------|--------------|----------|
| Position | 7 | Field format | an..2 | Field status | M |
| Field name | Transaction key | | | | |

Description: This field contains the encoded type of the transaction respectively document. Refer to the transaction keys according to VDA 4927. You need to take into account that the corresponding recommendations in BAAN (Packaging Management) is configured.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc031.trcd and conversion of the code in the message to the code in the application using the code and conversion table tcedi487. You need to take into account that first of all you have to enter the allowed transaction keys in the table tcedi486 in accordance with the transmitted organization in SA1.

| | | | | | |
|------------|-------------------------|--------------|------|--------------|----------|
| Position | 8 | Field format | n..8 | Field status | C |
| Field name | Transaction date | | | | |

Description: This field contains the date when the transaction was posted.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc031.bpdt.

| | | | | | |
|------------|-----------------------------------|--------------|--------------|--------------|----------|
| Position | 9 | Field format | an..4 | Field status | C |
| Field name | Document position number 1 | | | | |

Description: This field contains the number of the position in the document which is used for the material.

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc031.dcip.

| | | | | | |
|------------|-----------------------------------|--------------|--------------|--------------|----------|
| Position | 10 | Field format | an..4 | Field status | C |
| Field name | Document position number 2 | | | | |

Description: This field contains the number of the position in the document which is used for the packaging.

Processing incoming

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

BAAN: Mapping to BAAN table field tdssc031.dcpp

| | | | | | |
|------------|--------------------|--------------|-------------|--------------|----------|
| Position | 11 | Field format | n..8 | Field status | C |
| Field name | Beleg Datum | | | | |

Description: This field contains the date of the transaction trigger (for example, date of the shipping note).

Processing incoming

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

BAAN: Mapping to BAAN table field tdcsc.031.dcdt.

| | | | | | |
|------------|-----------------------------|--------------|--------------|--------------|----------|
| Position | 12 | Field format | n..11 | Field status | C |
| Field name | Number of packagings | | | | |

Description: This field contains the number of the packagings in pieces for the transaction.

Processing incoming

EDI subsystem: Transmission of the value from the transmission file and adding the corresponding value sign of the value.

BAAN: Mapping to BAAN table field tdcsc031.pqty.

| | | | | | |
|------------|------------------------|--------------|------------|--------------|----------|
| Position | 15 | Field format | an7 | Field status | M |
| Field name | Record end sign | | | | |

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

Processing incoming

EDI subsystem: The field is filled with the fixed value 'SA3_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

EMBED
EMBED
EMBED

Sample file

Incoming file CONTAINER.IN

```
"SA1"; "19970828000001"; "987123"; "LADUNG"; "BEMIS"; ""; "4  
5678"; "970828"; "060000"; "1  
23456"; "SA1_END"  
"SA2"; "19970828000001"; "987123"; "KD12345"; "6.351.300";  
"DP"; "ZZ"; "SA"; "01"; "+100"  
; "+110"; "970825"; "970826"; "K01"; "L12345"; "L01"; ;; "SA2_  
END"  
"SA3"; "19970828000001"; "987123"; "KD12345"; "6.351.300";  
"BelegNr100"; "10"; "970826"  
; "10"; "10"; "970825"; "+300"; "SA3_END"  
"SA3"; "19970828000001"; "987123"; "KD12345"; "6.351.300";  
"BelegNr101"; "10"; "970826"  
; "20"; "10"; "970825"; "+300"; "SA3_END"  
"SA2"; "19970828000001"; "987123"; "KD12345"; "6.351.300";  
"DP"; "ZZ"; "SA"; "01"; "+200"  
; "+220"; "970825"; "970826"; "K02"; "L12345"; "L02"; ;; "SA2_  
END"  
"SA3"; "19970828000001"; "987123"; "KD12345"; "6.351.300";  
"BelegNr200"; "10"; "970826"  
; "10"; "10"; "970825"; "+300"; "SA3_END"  
"SA3"; "19970828000001"; "987123"; "KD12345"; "6.351.300";  
"BelegNr201"; "10"; "970826"  
; "20"; "10"; "970825"; "+300"; "SA3_END"
```

Definition of BEMIS 2.0a Import and Export File for the Message Type Packaging Data

Definition of BEMIS 2.0a Import and Export File for the Message Type Packaging Data
4-2