BAAN IVc3scc1

Definition of BEMIS 1.0a Import and Export File for the Message Type Remittance Advice

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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.

This documentation describes the EDI message *remittance advice (incoming/outgoing)*.

Chapter 1 describes the structure of the interface file, the available record types of the file and the used key fields.

Chapter 2 describes every single record type of the message. All data fields are listed in an overview table in connection with the corresponding table fields. In addition, every single field is more detailed.

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1 Documentation of the record types

The following section details the BAAN EDI message in-house format "Remittance advice".

Available record types of the message type remittance advice

The use of the following record types is conditional (C) respectively mandatory (M), when you transmit information about remittance advice by means of the message VDA 4907 ("*Datenfernübertragung von Zahlungsavis*")[1].

According to VDA the data structure will be as follows:

ID	Status	Name
SA1	M	Remittance Advice Overhead (*Nachrichten-Vorsatz*)
SA2	M	Remittance Advice Header (*Kopfdaten Zahlungsavis*)
SA3	K	Remittance Advice Line (*Positionsdaten Zahlungsavis*)

Structure of the message remittance advice (in-house format)

The following record structure is used for the message type BEMIS remittance advice:

Level	Record ID	Status	Name
1	SA1	M/1	Remittance Advice Overhead (*Nachrichten-Vorsatz*)
2	SA2	M/1	Remittance Advice Header (*Kopfdaten Zahlungsavis*)
3	SA3	M/N	Remittance Advice Line (*Positionsdaten Zahlungsavis*)

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[1] Remote transmission of remittance advice.

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.

Legend:

Status: Frequency:
M: mandatory message   1: once in message
C: conditional message   R: repeatable in message
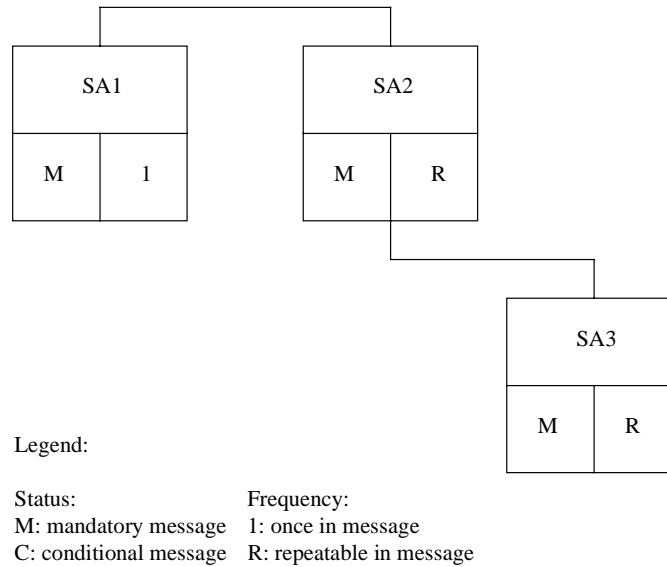
Figure 1, Branching diagram

For example, for two remittance advices of a debitor or creditor the BEMIS file has the following structure:

SA1 ...	BAAN IV Overhead
SA2 ...	Remittance Advice Header
SA3 ...	Remittance Advice Line
SA4 ...	Remittance Advice Line
....	
....	
SA4 ...	

SA1 ...	BAAN IV Overhead
SA2 ...	Remittance Advice Header
SA3 ...	Remittance Advice Line
SA4 ...	Remittance Advice Line
....	
....	
SA4 ...	

Key fields remittance advice

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

Record type	Key field 1	Key field 2	Key field 3	Key field 4
SA1	Message reference	Network address customer		
SA2	Message reference	Customer number	Identification remittance	
SA3	Message reference	Customer number	Identification remittance	Invoice 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 will be defined in the BAAN session tcedi0120m000. For the network BEMIS, the basis directories can be indicated in the following way:

/auto3/baanIV/bemis/zahlavi

BAAN will additionally create the following subdirectories:

/auto3/baanIV/bemis/zahlavis/appl_from/
/auto3/baanIV/bemis/zahlavis/appl_to/
/auto3/baanIV/bemis/zahlavis/command/
/auto3/baanIV/bemis/zahlavis/store_recv/
/auto3/baanIV/bemis/zahlavis/store_sent/
/auto3/baanIV/bemis/zahlavis/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 will be 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 will be 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 will be 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 remittance advice, which is being described in this documentation, is defined in the following way:

Direction	File name	Network directory
outgoing	ZAHLAVIS.OUT	../appl_from
incoming	ZAHLAVIS.IN	../appl_to

BEMIS Message – 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 "".

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" will be written into the BEMIS message file.

On the outgoing side numerical fields with decimal places will be used in the following way: If the decimal places equal the value zero these decimal places will not be written. For example, in the interface file the internal value '13.00' will be 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:

REMITTANCE ADVICE 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 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

Mapping from Application Table Fields (Outcoming)	
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 which will be taken during the processing of the messages.

Mapping in Application Table Fields (Incoming)	
Table Field	Action

The third block of the table describes for outgoing messages the corresponding table field in BAAN IV as well as the possible special actions which will be taken during the processing of the message.

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:

<div align="center">

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

</div>

empty alphanumerical Position:

<div align="center">

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

or

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

</div>

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:
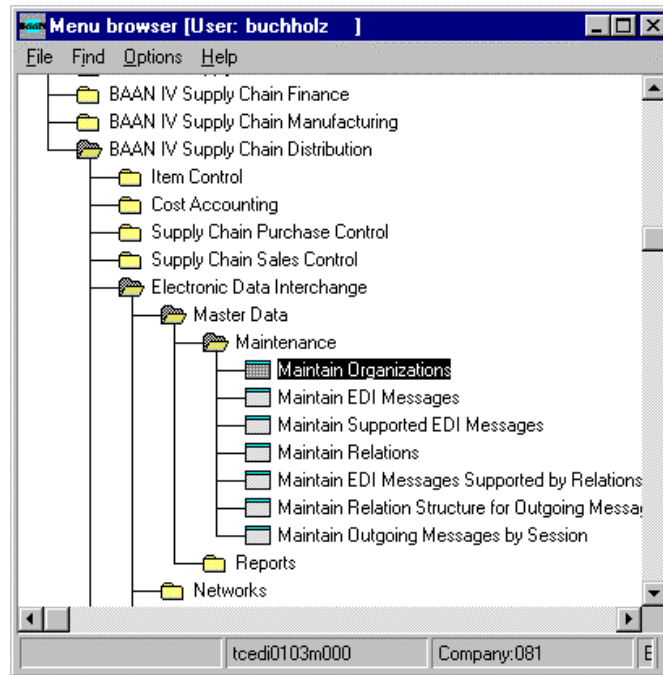
After you called the session tcedi0103m000 you will see that the entry for the dateformat on form two has been changed to "With Century (YYYYMMDD).
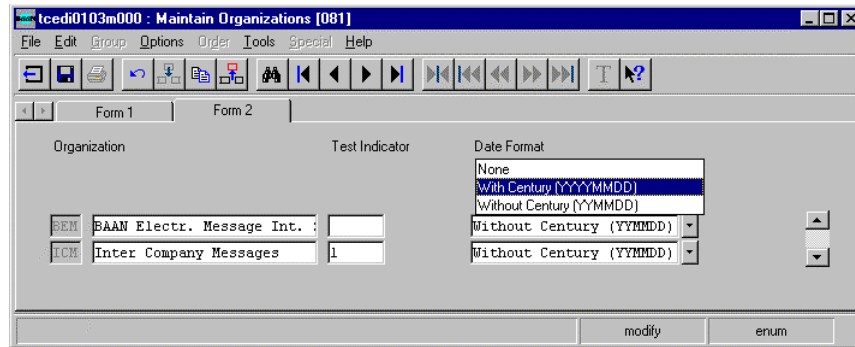
PLEASE NOTICE: If you use this option above the date format of every exported message will be changed to 8 digits! This means that the partner system (the translator software) has to able to translate each outgoing message comming with the changed date format!

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

2 Data record description by record type

This chapter describes the record types required by the BAAN Standard In-house Message format for remittance advices.

SA1 Remittance Advice Overhead - *Nachrichten Vorsatz*

Status : Mandatory

Frequency : Once by transmission

Description: This record type supports the unambiguous identification

	REMITTANCE ADVICE 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.	Record type	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)	blank	
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.	Order reference		M	an..35	blanks	here (...;"";...)	tcedi702.msno	Conversion (see below)
9.	Transmission date		M	n..8	current date		tcedi702.send	
10.	Transmission time		M	n..4	current time		tcedi702.sent	
11.	Transmission number old		M	an..14	blanks	here (...;"";...)	tcedi702.prno	
12.	End of record marker		M	an7	SA1_END		SA1_END	

Detailed description of Remittance advice, record type SA1 Overhead

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Record type**		(Key field out/in)	

Description: This field identifies the record type in the message block. It contains the fixed value 'SA1'.

Processing outgoing

EDI subsystem:

BAAN: This field will be filled with the fixed value 'SA1'.

Processing incoming

EDI subsystem: This field will be 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 remittance advice. The numbering, which has to be unambiguous by remittance advice, helps to control the chronological order of the remittance advice and the complete transmission. The field consists of a fix part with four characters, the current date (format: YYMMDD) and a serial number with four characters.

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

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this number to identify a remittance advice, stores it in tcedi701.bano und writes it into all data records of a remittance advice.

Processing incoming

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

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)		

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 field TFtcedi028.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 BAAN table TBtcedi028 'Relations by network'. This identification is mapped to the BAAN field TFtcedi702.reno.

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

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

Processing outgoing

EDI subsystem: None

BAAN: The identification of the customer in the used network is entered in the BAAN table tcedi020 'Networks'. The BAAN field TFtcedi028.neta is mapped to this position.

Processing incoming

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

BAAN: On the incoming side this field will be 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 of the message type remittance advice is ZAHLAV.

Processing outgoing

EDI subsystem:

BAAN: The internal message code tcedi001.code 'ZAHLAV' of the BAAN table tcedi001 'Supported EDI Messages' is mapped to this position.

Processing incoming

EDI subsystem: This field will be filled with the fixed value 'ZAHLAV'.

BAAN: The message code in the BAAN table tcedi001 'Supported EDI Messages' determines, which internal message is connected to this BEMIS remittance advice. In the BAAN table tcedi005 'EDI Messages' is determined for every message, which session (Dll) is used in BAAN to process the BEMIS remittance advice. The message code is mapped to the BAAN table field tcedi702.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 will be filled with the fixed value 'BEMIS'.

BAAN: Mapping to BAAN field TFtcedi702.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 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 empty, that means (..;"";..) .

Processing incoming

EDI subsystem: This field is filled with a blank.

BAAN: Mapping to BAAN field TFtcedi702.koor.

In 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..35**	Field status	**M**
Field name		**Order reference**			

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

Processing outgoing

EDI subsystem:

BAAN: The position will not be filled; here (...;"";...).

Processing incoming

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

BAAN: Mapping to BAAN field TFtcedi702.msno

Position	**9**	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 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		**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 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..14**	Field status	**M**
Field name		**Transmission number old**			

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

Processing outgoing

EDI subsystem:

BAAN: The position will not be filled; here (..;““;..).

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		**End of record marker**			

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

Processing outgoing

EDI subsystem:

BAAN: The field will be filled with the fixed value 'SA1_END'.

Processing incoming

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

BAAN: None

SA2 Remittance Advice Header – *Kopfdaten Zahlungsavis*

Status :	Mandatory
Frequency:	Once by remittance advice
Description:	This record type is used for the transmission of remittance-related data. The record contains information about the identification, the date and the total amount of a payment order to a creditor. This record type is available exactly once for every remittance number. All records up to the next record of the type SA2 refer to the same remittance number.

REMITTANCE ADVICE 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	Record type	O/I	M	an3	SA2		SA2	
2	Message reference	O/I	M	an..14	tcedi701.bano		tcedi702.bano	Generation by EDI subsystem
3	Supplier number (out) Network address customer (in)	O I	M	an..6	tfcmg103.suno		tfcmg506.cuno	Conversion (see below)
4	Payment advice number / identification remittance	O/I	M	an..6	tfcmg103.ragr		tfcmg506.stat	
5	Total payment amount / total amount remittance		M	n...13	tfcmg103.amnt		tfcmg506.amnt	
6	Total discount amount		M	n..13	tfcmg103.disa		tfcmg506.disa	
7	Payment type		M	an..3	tfcmg103.paym		tfcmg506.paym	
8	Supplier number		M	an..6	tcfmg103.suno		tccom010.osno	Comparison
9	Customer number		M	an..	tccom020.ocus			
10	Transmission date		M	n..8	date()		tfcmg506.stdt	
11	Payment date		M	n..8	tfcmg103.plan		tfcmg506.plan	
12	End of record marker Fixed value "SA2_END"		M	an7				

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Detailed description of Remittance advice, record type SA2 Remittance Advice 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 'SA2'.

Processing outgoing

EDI subsystem: None

BAAN: The position will be filled with the fixed value 'SA2'.

Processing incoming

EDI subsystem: The position will be filled with the fixed value 'SA2'.

BAAN: None

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

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

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tcedi701.bano to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of position value to BAAN table field TFtcedi702.bano.

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

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

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 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 tcedi702.reno.

Position	**4**	Field format	**an..6**	Field status	**M**
Field name		**Payment advice number /id. remittance**		(Key field)	

Description: This field contains the unambiguous identification of the remittance. It serves as link between the EDI remittance advice and the actual receipt of payment.

Processing outgoing

EDI subsystem: None

BAAN: TFtfcmg103.btno will be written to TFtfcmg103.rgar and then used as alphanumerical field. Mapping BAAN table field TFtfcmg103.rgar to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg.506.stat.

Position	**5**	Field format	**n..13**	Field status	**M**
Field name		**Total payment amount / total amount remittance**			

Description: This field contains the total amount of the invoice, including VAT and minus discount. It contains a numerical value (format: ‚*NNNNNNNNNNN.NN*')

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg103.amnt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg506.amnt.

Position	**6**	Field format	**n..13**	Field status	**M**
Field name		**Total discount amount**			

Description: This field contains the total discount amount. It contains a numerical value (format: ‚*NNNNNNNNNNN.NN*').

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg103.disa to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg506.disa.

Position	**7**	Field format	**an..3**	Field status	**M**
Field name		**Payment type**			

Description: This field contains the encoded payment type which is defined as follows:
0 = not yet defined
1 = check
2 = remittance
3 = bill of exchange
4 = check / bill of exchange
5 = clearing debitor
6 = electronical bill of exchange

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field value TFtfcmg103.paym to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg506.paym.

Position	**8**	Field format	**an..6**	Field status	**M**
Field name		**Supplier number**			

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

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg103.suno to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tccom010.osno.

Position	**9**	Field format	**an..**	Field status	**M**
Field name		**Customer number**			

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

Processing outgoing

EDI subsystem: None

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

Processing incoming

EDI subsystem: This field will not be filled, that means (…;"";…).

BAAN: None

Position	**10**	Field format	**n…6**	Field status	**M**
Field name		**Transmission date**			

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

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field date() to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg506.stdt.

Position	**11**	Field format	**n…6**	Field status	**M**
Field name		**Payment date**			

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

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg103.plan to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg506.plan.

Position	**12**	Field format	**an7**	Field status	**M**
Field name		**End of record marker**			

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

Processing outgoing

EDI subsystem: None

BAAN: The field will be filled with the fixed value 'SA2_END'.

Processing incoming

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

BAAN: None

SA3 Remittance Advice Line – *Positionsdaten*

Status :   Mandatory

Frequency :

Description: This record type supports the transmission of individual lines
                  of the remittance advice to the creditor. These instructions refer
                  to the corresponding identification of the remittance advice
                  which is indicated in the previous record type SA2.

Pos	FIELD DESCRIPTION	Key	ST	FM	Table Field	Action	Table Field	Action
REMITTANCE ADVICE INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
1	Record type	O/I	M	an3	SA3		SA3	
2	Message reference	O/I	M	an..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Supplier number (out)	O	M	an..6	tfcmg103.suno		tfcmg506.cuno	Conversion (see below)
	Network address customer (in)	I						
4	Payment advice number / identification remittance	O/I	M	an..6	tfcmg103.ragr		tfcmg506.stat	
5	Invoice number		M	an..15	tfcmg101.refr		tfcmg501.pref	
6	Document type		M	N1	tfcmg101.tadv			no entry
7	Currency unit	K		an..3	tfcmg101.ccur		tfcmg501.ccur	Conversion (see below)
8	Invoice amount including VAT depending on document type		M	n..13	tfcmg101.amnt	with value sign	tfcmg501.amnt	with value sign
9	Discount amount		M	n..13	tfcmg101.disa		tfcmg501.disa	
10	Invoice date		M	n..8	tfacp200.docd		tfcmg501.docd	
11	End of record marker Fixed value "SA3_END"		M	an7				

Detailed description of Remittance advice, record type SA3 Remittance Advice Line

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 outgoing

EDI subsystem: None

BAAN: This field will be filled with the fixed value 'SA3'.

Processing incoming

EDI subsystem: This field will be 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 data records of one remittance advice. The numbering, which has to be unambiguous by remittance advice, helps to control the chronological order of the remittance advice and the complete transmission. The field consists of the current date (format: YYMMDD) and a serial number with four characters.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tcedi701.bano to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping position value to BAAN table field tcedi702.bano.

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

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

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..6**	Field status	**M**
Field name	**Payment advice number / Id. remittance**		(Key field)		

Description: This field contains the unambiguous identification of the remittance. It serves as link between the EDI remittance advice and the actual receipt of payment.

Processing outgoing

EDI subsystem: None

BAAN: TFtfcmg103.btno will be written to TFtfcmg103.rgar and then used as alphanumerical field. Mapping of BAAN table field TFtfcmg103.rgar to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg.506.stat.

Position	**5**	Field format	**an.15**	Field status	**M**
Field name		**Invoice number**		(Key field)	

Description: This field contains the identification number which the supplier applied to an invoice which he created.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg101.refr to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN table field tfcmg501.pref.

Position	**6**	Field format	**n1**	Field status	**M**
Field name		**Document type**			

Description: This field contains the transaction key.
BEMIS: 1 equals 01 = invoice
BEMIS: 4 equals 03 = your self-billed invoice

Processing outgoing

EDI subsystem: None

BAAN: Mapping BAAN table field tfcmg101.ttyp to position.

Processing incoming

EDI subsystem: Not used at the moment, that means (...;;...).

BAAN: None

Position	**7**	Field format	**an..3**	Field status	**C**
Field name		**Currency unit**		(Key field)	

Description: This field contains the invoice amount.

The currency code is defined according to ISO 4217 (e.g. DEM for German mark)

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg101.curr to position and conversion of field to BAAN-specific currency description using the code and conversion tables in the session SEtcedi3128m000 "Maintain Conversion of Currency Codes (out)".

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN table field tfcmg501.curr and conversion of field to BAAN-specific currency description using the code and conversion tables in the session SEtcedi3124m000 "Maintain Conversion of Currency Codes (in)".

Position	**8**	Field format	**n..13**	Field status	**M**
Field name		**Invoice amount incl. VAT depending on document type**			

Description: This field contains the amount of the single invoice. This field contains a numerical value (format: ‚*NNNNNNNNNNN.NN*') including value sign.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg101.amnt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN table field tfcmg501.amnt.

Position	**9**	Field format	**n..13**	Field status	**M**
Field name		**Discount amount**			

Description: This field contains the discount amount. It contains a numerical value (format:*,NNNNNNNNNNN.NN*') including the value sign.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfcmg101.amnt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to BAAN table field tfcmg501.disa.

Position	**10**	Field format	n..8	Field status	**M**
Field name		**Invoice date**			

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

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN table field tfacp200.docd to position.

Processing incoming

EDI subsystem: None

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

BAAN: Mapping of field value to BAAN table field tfcmg501.docd.

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

Processing outgoing

EDI subsystem: None

BAAN: The field will be filled with the fixed value 'SA3_END'.

Processing incoming

EDI subsystem: The field will be filled with the fixed value 'SA3_END'.

BAAN: None

Definition of BEMIS 1.0a Import and Export File for the Message Type Remittance Advice
2-24

3 Sample file incoming/outgoing remittance advice

"SA1";"F8009712100020";"000010";"F800";"ZAHLAV";"BEMIS";"4907";"";9
71210;1418;""

;"SA1_END"

"SA2";"F8009712100020";"000010";"1";13455;2;"1";"";"";971210;970804;"SA
2_END"

"SA3";"F8009712100020";"000010";"1";"970001004";1;"280";5175;0;970626;"
SA3_END"

"SA3";"F8009712100020";"000010";"1";"970001009";1;"280";1552.5;0;970626
;"SA3_END"

"SA3";"F8009712100020";"000010";"1";"970001010";1;"280";5175;0;970626;"
SA3_END"

"SA3";"F8009712100020";"000010";"1";"970001011";1;"280";1552.5;0;970626
;"SA3_END"

4 Print session and program script in BAAN

The following print session is linked to the generation of the EDI message remittance advice:

```
┌─────────────────────────────────────────────────────────────────┐
│                                                                   │
│  Maintain Sessions                                                │
│  ───────────────────────────────────────────────────────────     │
│                                                                   │
│  Package            :tf        Finance Baan IV b   VRC: B40  b    │
│  Module             :cmg       Cash Management                    │
│  Session            :1270m000          Expired         :N         │
│  Form Description   :Print Remittance Letters                     │
│  Menu Description   :Print Remittance Letters                     │
│  Standard Script    :No                                           │
│  Program Script     :tfcmg1270 Print Remittance Letters           │
│  Main Table         :tf cmg103 Composed Payments                  │
│  Start Option       :0                                            │
│  Session Status     :Finished                                     │
│  Session Type       :Update                                       │
│  Main Session       :Yes                                          │
│  Zoom Type          :                                             │
│  ┌──────────────────────────────────────────┐                    │
│  │ 1 Forms            4 Change Key           │                    │
│  │ 2 Reports          5 Texts                │                    │
│  │ 3 Charts                        Choice: ..│                    │
│  └──────────────────────────────────────────┘                    │
└─────────────────────────────────────────────────────────────────┘
```

The following program script is linked to the generation of the remittance advice:

```
ttadv2130m000        zoom        single/grp (3)      Form 1-2 >
```

```
┌─────────────────────────────────────────────────────────────┐
│  Maintain Program Scripts                                    │
│                                                              │
│  ┌────────────────────────────────────────────────────────┐ │
│  │ Package            :tf  Finance Baan IV b     VRC: B40L b2 sch2 │
│  │ Module             :cmg Cash Management                 │ │
│  │ Program Script     :1270   Main Source  Present Variants: None │
│  │ Description        :Print Remittance Letters            │ │
│  │ Script Type        :Type 4 (Without M. Table)           │ │
│  │ Compile Flags      :                                    │ │
│  │ Tech.Document.     :No                                  │ │
│  │ Release Notes      :No                                  │ │
│  │ Expired            :No              User     Date   Time│ │
│  │ Source Linked to          Created: kruse   7-08-97  08:28 │
│  │ Previous VRC       :No    Last Update: kruse  12-08-97  10:34 │
│  │                                                         │ │
│  │                                                         │ │
│  ├──────────────────────────────────┐                     │ │
│  │ 1 Forms          4 Change Key     │                     │ │
│  │ 2 Reports        5 Texts          │                     │ │
│  │ 3 Charts                          │         Choice: ..  │ │
│  └──────────────────────────────────┘                     │ │
│  └────────────────────────────────────────────────────────┘ │
└─────────────────────────────────────────────────────────────┘
```

5   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